Eastwood&Partners
CONSULTING ENGINEERS

GEOTECHNICAL AND GEO-ENVIRONMENTAL SITE INVESTIGATION

LINCS GATEWAY, SPALDING

FOR

ALCAN PROPERTIES LIMITED

ISSUE 2



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1.0 EXECUTIVE SUMMARY

1. The 19-hectare site is located to the north east of the B1173 and north west of the A16 around 2.4 km south of Spalding town centre in Lincolnshire.

2. A grassed horse paddock is located in the western 10% of the site, west of the footpath along the former Fen End Lane. A 'Brownfield' area (accounting for approximately 15% of the site area) surfaced by made ground and partially occupied by a large stockpile lies to the east of the footpath. The remaining 75% of the site area comprises arable farmland, with occasional drainage ditches located on and around the site.

3. The site is relatively level, located at around 3 to 4 m AOD.

4. Overhead electricity lines cross the site in the north west. A rising main and water main (now largely abandoned) cross below the west of the site, and an extensive land drainage network is expected. These will need to be taken account of as part of any future development.

5. Superficial Tidal Flat Deposits are indicated across the site. The underlying solid geology comprises the Oxford Clay Formation.

6. The site is not within a coal mining affected area.

7. The bedrock and superficial deposits are classified as Unproductive Strata. The site lies within a Flood Zone 3. Localised areas of the site are shown to have a low to medium risk of surface water flooding. The site is not at risk of groundwater flooding, and does not lie within a Groundwater Source Protection Zone. A flood risk assessment has been prepared by others for a portion of the land as part of a previous planning application. It is likely that a new FRA will be required to support the additional land and larger development now proposed.

8. Topsoil between 0.2 and 0.9 m thick, but typically around 0.35 m, is present at the surface of the agricultural fields. Topsoil / made ground 0.4 m thick is locally present at the surface between the agricultural fields and the 'Brownfield' area. Made ground is present across the surface of the 'Brownfield' area to depths of between 0.5 and 1.6 m.

9. Below the north west 65% of the site, the shallow natural ground typically comprises sand to between 0.8 and 1.6 m bgl, overlying soft silty clay. Soft or very soft organic clay was encountered below 1.0 to 2.6 m bgl. Below the south east 35% of the site, the natural ground generally comprises firm or stiff clay overlying sand from around 0.8 to 1.8 m. The superficial clays and sands are generally considered to comprise Tidal Flat Deposits below the surface covering, overlying alluvium (i.e., organic clays and sands). A band of sandy gravel / gravelly

sand between 1 and 5 m thick encountered below the north west 80% of the site from around 8 to 12 m bgl may comprise River Terrace Deposits.

10. The superficial deposits extend to depths of between 11.1 m and 13.4 m, overlying stiff gravelly clay (boulder clay). The Oxford Clay Formation was encountered from around 16.2 m to 18.3 m bgl.

11. Groundwater ingresses were frequently recorded in the trial pits in the cohesive Tidal Flat Deposits below the north west of the site, typically between 1.4 m to 1.8 m bgl. Groundwater strikes were recorded in the boreholes below about 4 m bgl. In the monitoring wells, groundwater was recorded from as shallow as around 1 m bgl.

12. Piled foundations taken through the soft superficial deposits and into the competent clays below are expected to be appropriate for the development. Allowance should be made to take piles into the Oxford Clay at around 20 m bgl, but it may be possible to terminate piles at shallower depth within the overlying stiff gravelly clays which were present from between around 11 and 13 m bgl, subject to detailed design by a piling specialist.

13. A reinforced suspended floor slab, supported on piles, is expected to be appropriate for the proposed warehouses.

14. Differential settlement between the proposed structures and external areas will need to be considered due to the soft nature of the ground, with junctions detailed accordingly. Appropriate measures such as flexible service joints and thickened capping beneath hard-standing should be allowed for.

15. It is expected that ground levels will be raised by around 0.7 m to protect against the risk of flooding (based on the previous FRA by others). The existing drainage ditches will need to be emptied of water and backfilled . The ditches form part of the local drainage network, and so will need to be diverted, or new ditches constructed to maintain drainage routes.

16. Trench stability may be poor where shallow natural sand is encountered and temporary support will be required.

17. Four soakaway tests were completed; negligible drainage was recorded in the two deeper tests, with low infiltration rates recorded in the two shallow tests. Soakaway drainage is not considered to be viable. A piped discharge with on-site attenuation will be required.

18. A thickened construction and the incorporation of a geogrid is expected to be necessary for any proposed roads.

19. No radon precautions are required.

20. A ground gas monitoring programme is currently ongoing. At this stage it is considered that a Characteristic Situation 2 classification is appropriate for the south western quadrant of the site. A CS-1 classification (i.e., no gas precautions) is considered appropriate for development located in the north and east. In accordance with BS8485, reinforced suspended floor slabs are considered to provide sufficient gas protection for a CS2 classification, and no additional gas precautions are expected to be necessary to the warehouse areas. Where offices or other enclosed workspaces are included, a gas resistant membrane will need to be included within the floor construction.

21. No elevated contaminants have been recorded in the topsoil or the natural ground. One sample of made ground recorded a slightly elevated concentration of Dibenz[a,h]anthracene, although the modified mean falls below the assessment value. No remedial measures are therefore considered to be necessary.

22. DS-3 AC-3 sulphate precautions are required for sub-surface concrete in contact with the made ground. No sulphate precautions are required for sub-surface concrete in contact with the shallow natural ground only, although DS-4 AC-4 precautions are required for the deeper organic/peaty clay (for piled foundations).

23. The conclusions made in this report are subject to agreement by the approving bodies, such as the Local Authority, and your warranty provider.

2.0 INTRODUCTION

2.1 Terms of Reference

This report presents the findings of a Geotechnical and Geo-environmental Site Investigation carried out by Eastwood & Partners (Consulting Engineers) Ltd for, and on the behalf of, Alcan Properties Limited. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

2.2 Context

GeoDyne have previously undertaken an intrusive investigation in the centre-west and southern portions of the site, the findings of which are detailed in their '*Combined Phase I Desk Study and Phase II Exploratory Investigation*' report, dated 20 August 2021 and referenced D41115. The pertinent details of GeoDyne's report are summarised in Section 4 of this Phase 1 & 2 Site Investigation.

We are not aware of any other reports having previously been completed on the site.

2.3 Aims and Objectives

The aims and objectives of this investigation were as follows:

- Assimilate Desk Study data to derive an outline conceptual model identifying potential contaminants, pathways and receptors, as well as possible linkages between these;
- Obtain information enabling refinement and subsequent testing of the conceptual model;
- Carry out a tiered risk assessment to establish the likely risks to future receptors, involving the use of generic assessment criteria and where unacceptable risks are identified, site specific assessment criteria within a detailed quantitative risk assessment;
- Identify feasible remediation options if unacceptable risks are highlighted;
- Develop an appropriate remediation strategy where remediation is required; and
- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made.

2.4 Scope of Investigation

This document is split into two sections. These constitute the findings of the Phase 1 and Phase 2 investigations, consecutively.

2.4.1 Phase 1

The Phase 1 involved a review of information extracted from published documentation as well as that obtained from the previous Phase 2 report produced for the site. Information regarding the current and former land uses both on and surrounding the site, as well as the environmental sensitivity of the site location as determined by factors including geology, hydrogeology and hydrology have been examined.

Information analysed in this section of the report has been obtained from a variety of sources and included the following:

- A Landmark Envirocheck (note that this includes an approximately 20 m wide grass landscaped area adjacent to road in the south west, which lies outside of the development boundary);
- British Geological Survey maps and memoirs;
- The British Geological Survey website; and
- A site walkover.

2.4.2 Phase 2

This part of the investigation consisted of intrusive works and laboratory analysis. The findings were used to test the conceptual model and produce a final risk assessment. The intrusive works comprised trial pits and cable percussive boreholes which were completed to enable:

- Examination of the upper few metres of ground;
- In situ description of soils, enabling any localised lateral and vertical changes in soil conditions to be logged;
- Assessment of any contamination identified using visual and olfactory methods;
- The undertaking of infiltration tests;
- Collection of soil samples for geotechnical and chemical testing;
- A strength profile to be obtained of the shallow and deeper soils; and
- Installation of gas and groundwater monitoring wells.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with two large portal-framed warehouses, with associated external hardstanding areas and localised soft landscaping. It is expected that ground levels will be raised by around 700 mm to protect against the risk of flooding, although this is subject to confirmation by a Flood Risk Assessment, which will need to be undertaken. A previous FRA has been prepared by others for a portion of the site, although we do not know if the client has legal reliance on this document. If any of these assumptions are incorrect, then the advice given in this report may not be appropriate.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the ground conditions encountered during the site work, on the results of laboratory testing carried out as part of the investigation and information gained from a geological, historical and environmental desk study. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata and water conditions between or below investigation points. It should be noted that groundwater levels vary due to seasonal or other effects, and may at times differ from those measured during the investigation.

This report considers the ground and groundwater and does not cover any buildings or their fabric, or the constituents of any existing hardstanding materials. Generally, testing has only been carried out for contaminants identified as potentially present with no assessment made of biological contamination. Risks to ecological receptors, such as bats, have not been considered.

3.0 THE SITE

3.1 Description

The site is located site is located to the north east of the B1173 and north west of the A16 around 2.4 km south of Spalding town centre in Lincolnshire. The B1173 and A16 intersect at a roundabout immediately to the south. The site has an area of approximately 19 hectares and is approximately centred on grid reference 524540 319980.

The site can generally be divided into three areas. The western 10%, located west of a public footpath and former track (Fen End Lane) which crosses the site orientated roughly north-south, mostly comprises a grassed horse paddock, with mature trees present in the north and adjacent to the footpath.

Immediately east of the footpath, a large soil stockpile extends from the site entrance in the south west up to the north west boundary, before running around 100 m to the east; the northern section of the stockpile is covered with vegetation including shrubs, bushes and brambles, with mature trees present along its northern edge. The area west and south of the stockpile comprises derelict land surfaced with bare soil (made ground), with the main site access from the B1173 present in the south west. This comprises around 15% of the total site area.

The remaining 75% of the site, north and east of the derelict land, comprises arable farmland. Two drainage ditches cross the farmland trending roughly west to east, with further ditches present along the north, south and east boundaries.

Overhead electricity cables cross the north west of the site, and a rising main crosses the west of the site (mostly running below the stockpile). An abandoned water main is also recorded below the public footpath in the west.

The site is relatively level, located at around 3 to 4 m AOD. The water level in the drainage ditches lies around 1 m below the level of the site.

The surrounding area predominantly comprises agricultural fields. Lincs Gateway Business Park, including a service station, pub, hotel and office building is located to the south east of the site. Housing is located along Fen End Lane to the north west.

Some of the features discussed above are shown on the attached Exploratory Hole Location Plan (drawing no. 46934/001B) in Appendix 1, in addition to a selection of photographs taken during the site investigation.

3.2 History

Historical Ordnance Survey maps within the Envirocheck have been reviewed to assess the previous use of the site and surrounding area. The maps, together with the Envirocheck, can be found in the Appendix; the Envirocheck boundary includes an approximately 20 m wide soft landscaped area along the south / south west boundary, which extends beyond the site's legal boundary.

3.2.1 The Site

The earliest Ordnance Survey map, dated 1888, shows the majority of the site to comprise agricultural fields, separated by drainage ditches. Fen End Lane crosses the west of the site trending north to south; a group of farm buildings are located adjacent to the east of the road, with associated trees / orchards located nearby. Two small structures and further localised areas of trees are located on the west side of the road adjacent to the south west boundary.

A pump and a well are labelled within the farm buildings on the 1904 map. Two wells are also labelled adjacent to the southern structure to the west of the road, although the surrounding trees are no longer shown; this structure (in addition to the two adjacent wells) are no longer shown by 1931.

By 1968-69 none of the original farm buildings are shown. In their place, a building labelled as a store is shown to the east of the track close to the north west boundary, along with two elongated structures comprising a greenhouse and a possible storage shed / barn. In addition, sections of drain in the north east and south of the site appear to have been infilled.

By 1982, another larger structure, also labelled as a store, is shown in the west of the site (south east of the smaller store). The greenhouse is no longer shown.

BY 1996, the A16 is constructed adjacent to the south east boundary, and a stockpile is shown in the south west of the site.

The 1999 historical aerial imagery indicates that the smaller store building has been slightly extended. The area around the buildings appears to be surfaced by bare earth or gravel, and a stockpile is also shown to the north of the buildings. The imagery also shows the area to the west of the buildings to comprise farmland with some trees and bushes present in the north.

The historical Google Earth imagery shows the structures in the west of the site to have been demolished and the area cleared by 2014. In addition, the field in the west of the site no longer appears to be used for agriculture following the construction of a new road (the B1173) to the south and west of the site.

No further significant changes or developments are shown to the present day.

3.2.2 The Surrounding Area

The earliest maps show the surrounding area to predominantly comprise agricultural fields with frequent drainage ditches and occasional small ponds. A group of small farm buildings (Hunt's Farm) are located adjacent to the south west boundary. Occasional houses lie to the north west of the site, and also around 250 m to the north (Fen End). A north-south trending embankment / road (Barrier Bank) lies immediately west of the site; a river (the New River Drone) lies to the west of the embankment around 115 m from the site. The River Weiland is located around 560 m to the west.

Minimal changes are noted in the surrounding area until 1968-69, when further houses are developed to the north west of the site. The majority of the buildings forming Hunt's Farm have been removed. Additional houses are developed to the north west by 1982.

By 1996, the A16 is constructed adjacent to the south east of the site. The stockpile located in the south west of the site continues off-site by around 50 m.

The historical imagery indicates the B1173 to be constructed to the west / south west of the site by 2014. A new roundabout is constructed to the south of the site where it meets the A16. A small business park (Lincs Gateway Business Park), including a service station, pub, hotel and office building is constructed to the south west of the site by 2018.

No further changes are shown.

3.3 Geology

The British Geological Survey (BGS) online map viewer has been reviewed.

Superficial Tidal Flat Deposits (clay and silt) are indicated across the site. The solid geology below the site is shown to comprise the Oxford Clay Formation (mudstone).

No fault lines are shown to cross the site.

Borehole records are available to view for the surrounding area on the BGS website. One borehole, undertaken around 225 m to the south west of the site and referenced TF21NW3, recorded soft or very soft silty clay with peat pockets to a depth of 5.6 m, overlying sand to 15.05 m. Stiff "boulder clay" was recorded below to 17.45 m, overlying very stiff fissured clay to at least 24.2 m.

Another borehole, undertaken around 480 m to the north east and referenced TF22SE5, recorded very soft clay to 8.4 m, overlying a roughly 1 m thick band of peat. Sand was recorded below to 13.5 m, overlying stiff clay. The Oxford Clay Formation was recorded at a depth of 20 m.

3.4 Hydrogeology

Both the Tidal Flat Deposits and the Oxford Clay Formation are classified as Unproductive Strata. These are defined as strata which are largely unable to provide usable water supplies and are unlikely to have surface water and wetland ecosystems dependent on them.

According to the Envirocheck, the site does not lie within a Groundwater Source Protection Zone, and there are no water abstractions within 250 m of the site.

3.5 Hydrology

According to the Envirocheck, the nearest surface water feature is located on site. This is considered to relate to the drains which cross the site, and also run around the majority of the site boundaries.

3.6 Coal Mining

The site does not lie within a coal mining affected area.

According to the Envirocheck, there are no BGS recorded mineral sites located within 500 m of the site.

3.7 Ground Gas

Radon

According to the Envirocheck, the lies within a lower probability radon area (i.e., less than 1% of homes are estimated to be at or above the action level). No radon protective measures are therefore considered to be necessary in the construction of new dwellings or extensions across the site.

Landfill and other Ground Gases

According to the Envirocheck, there are no potentially infilled features within 250 m of the site, and no active or historical landfills within 1 km.

Farm buildings were previously located in the west of the site, before being replaced with storage buildings (i.e., warehouses) by the 1960s. Made ground is therefore expected to be present below the footprint of the historical development, although a significant thickness is generally not expected to be present.

Peat pockets / bands may be present in the superficial Tidal Flat Deposits below the site. If significant amounts of potentially degradable organic matter are identified, this could potentially be producing harmful quantities of ground gas which could pose a risk to site end-users.

Gas monitoring is likely to be required as part of the Phase 2 investigation works.

3.8 Pollution Incidents to Controlled Waters

The Envirocheck records one pollution incident to controlled waters within 250 m of the site. The incident occurred 242 m to the south west in September 1998, and relates to a natural algal bloom (no artificial pollutants were involved). The incident was classed as a Category 3 Minor Incident, and is not considered to have impacted the site.

3.9 Discharge Consents

The Envirocheck records one discharge consent within 250 m of the site. This is located 214 m to the north of the site and relates to a private residence, although the discharge type was not given. The permit was granted in August 1983 and revoked in October 1996.

3.10 Flooding

The entire site lies within a Flood Zone 3, i.e., it is at risk of flooding from rivers or sea, and does not benefit from the protection of flood defences.

Localised areas of the site are shown to have a low to medium risk of surface water flooding, with the most extensive of these areas located in the north of the site.

The Envirocheck indicates the site is not at risk of groundwater flooding.

A full flood risk assessment has been prepared for part of the site by others previously, which recommended that floor levels be raised by around 700 mm across the site to mitigate against the risk of flooding. A new flood risk assessment will be required to incorporate the entire site footprint.

3.11 Soil Geochemistry

The Envirocheck estimates the following concentrations of arsenic, cadmium, chromium, nickel and lead to be present in the natural soil below the site:

Contaminant	Estimated Concentration (mg/kg)	Assessment Value (mg/kg)*
Arsenic	<15 to 25	37
Cadmium	<1.8	11
Chromium	60 to 90	910
Lead	<100	200
Nickel	15 to 30	180

*Assessment values used relate to a residential end use, as these are the most stringent available.

Concentrations of these contaminants are not expected to be elevated within the natural ground.

3.12 Contemporary Trade Directory Entries, Fuel Station Entries and Waste Management Facilities

There is one contemporary trade directory entry recorded within 100 m of the site. This is positioned 19 m to the north west of the site and relates to an asphalt and macadam laying contractor, and is now inactive.

The closest fuel station entry is recorded 59 m to the south of the site at Applegreen services. There are no other fuel station entries recorded within 250 m of the site.

There are no waste management facilities recorded within 1 km of the site.

4.0 REVIEW OF PREVIOUS SITE INVESTIGATION

GeoDyne previously completed a '*Combined Phase I Desk Study and Phase II Exploratory Investigation*' for the site in August 2021. The boundary for this previous investigation included the section of the site occupied by the former buildings (stores) and also the west and south west portions of the agricultural fields.

The investigation comprised ten trial pits (TP1 to TP10) to depths of up to 3.7 m, and eleven window sample boreholes (WS1 to WS11) to depths of up to 5 m and Standard Penetration Tests (SPTs) completed at 1 m depth intervals. In addition, gas wells were installed in five of the boreholes, and six rounds of gas and groundwater monitoring were completed.

The pertinent findings from the investigation are summarised below:

Ground Conditions

Topsoil was recorded at the surface of six of the exploratory holes completed in the agricultural fields to depths of between 0.25 and 0.3 m bgl.

Made ground was encountered from the surface of the remaining exploratory holes to depths of between 0.4 and 1.5 m. The made ground was found to generally comprise gravelly clay (gravel of brick, concrete, macadam and limestone) overlying sandy silt (and locally gravel or sand).

Below the topsoil and made ground, the natural ground generally comprised stiff sandy silt within the upper 1 m, with soft silty clay encountered below 1 m depth to at least 5 m bgl. Peat pockets were occasionally recorded in the clay, whilst a thin band of peat (0.15 m) was recorded directly below the made ground in TP3. Sand bands were locally recorded, and was encountered 0.7 m in WS1 (eastern-most exploratory hole) to at least 5 m depth.

Slight water ingresses were occasionally recorded in the trial pits and boreholes at variable depths, and typically below 1 m.

Geotechnical Testing

Standard Penetration Tests (SPTs) were undertaken in eight of the window sample boreholes (WS1 to WS8) at 1 m depth intervals. In WS3 to WS8, SPT-derived N-values were typically recorded to range between N=0 and N=4, equivalent of extremely soft (N=0 to 1) or very soft (N=2 to 4) strata. N-values equivalent of soft strata (N=5 to 7) were recorded in the upper 3 m in WS1 and WS2, with firm strata (N=8 to 15) recorded below 4 m in these boreholes.

Shear vane readings were carried out in the trial pits in the cohesive soils. In the upper 1.5 m, shear strengths ranging between 30 and 110 kN/m^2 were recorded, and around 60 kN/m^2 on average

(equivalent to firm strata). Below 1.5 m, shear strengths between 20 and 40 kN/m^2 were typically recorded, equating to soft strata.

Three remoulded CBR tests were undertaken, which recorded average CBR values ranging between 1.65 and 2.25%.

Nine samples were submitted for plasticity testing. One sample was recorded to be non-plastic (less than 10% volume change potential), three samples were recorded to be of low volume change potential (10 to 20% VCP) and five samples were recorded to be of medium volume change potential (20 to 40% VCP).

Particle size distribution (PSD) tests were also undertaken on one sample of natural clay and one sample of natural sand.

Chemical Testing

No visual or olfactory evidence of contamination was noted in the exploratory holes by GeoDyne.

Three samples of topsoil, twelve samples of made ground and four samples of natural ground were submitted for chemical testing, with the test suite including:

- Heavy metals / metalloids on two samples of topsoil, eight samples of made ground and four samples of natural ground;
- Asbestos screen on seven samples of made ground;
- Polycyclic Aromatic Hydrocarbons (PAHs) on eight samples of made ground;
- Total Petroleum Hydrocarbons (TPH) on three samples made ground;
- Pesticide and herbicide testing suites on four samples of topsoil;
- Water soluble sulphate on five samples of made ground and four samples of natural ground; and
- Anglian Water test suites on two samples of made ground, two samples of natural ground, and one combined made and natural ground sample.

No elevated concentrations of contaminants were recorded.

Gas Monitoring

Monitoring wells were installed in five of the boreholes, and six rounds of monitoring were undertaken over a six-week period. The following results were recorded:

- Zero flow from any well on any occasion;
- A maximum methane concentration of 1.2% recorded in WS10 during the first monitoring round . A maximum concentration of 0.1% was recorded during the remaining rounds; and
- A maximum carbon dioxide concentration of 6.0%, recorded in WS7 during round 6. Carbon dioxide concentrations above 5% were also recorded in WS7 during every round apart from round 3, and also in WS10 during round 1.

5.0 OUTLINE CONCEPTUAL MODEL

The site is being considered for a commercial development comprising two large warehouses, with associated external hardstanding areas and localised soft landscaping.

5.1 Potential Sources of Contamination

The majority of the site currently comprises arable agricultural fields. It is therefore possible that pesticides and herbicides may be present within the topsoil, although these are not expected to be present in significant concentrations.

Made ground is expected to be present below the western, previously developed, section of the site. Any made ground may contain elevated concentrations of heavy metals/metalloids, polycyclic aromatic hydrocarbons (PAHs) and sulphates.

5.2 Ground Gas

No radon precautions are required for the proposed development.

A significant thickness of made ground is not expected below the site, but pockets and thin bands of peat may be present in the natural Tidal Flat deposits, which could pose a risk of ground gas to the development.

During the gas monitoring undertaken by GeoDyne, the maximum methane concentration (1.2%) and carbon dioxide concentration (6.0%) are both equivalent to a Characteristic Situation 2 gassing regime in accordance with BS 8485:2015.

A programme of gas and groundwater monitoring, comprising six rounds of monitoring will be completed as part of the E&P investigation.

5.3 Potential Pollutant Linkages

The table below details the possible sources and associated contaminants of concern, pathways and receptors:

Source	Potential Contaminants	Potential Pathways	Potential Receptors
Made ground	Heavy metals/metalloids PAHs Sulphates Asbestos	Ingestion Inhalation Direct contact Migration through ground	Site end-users Site construction workers Water supply pipes
Organic deposits in natural ground	Ground gas	Inhalation	Site end-users
Made ground	Sulphates	Direct contact	Subsurface concrete
Natural ground	Sulphates Low pH		

6.0 PHASE 2 INVESTIGATION

6.1 Site Works

Eastwood & Partners visited site on 12 and 13 April 2021 and completed thirty-three trial pits, referenced TP1 to TP33, to determine the shallow ground conditions. Two additional shallow trial pits (TP18B and TP33B) were excavated adjacent to deeper pits to allow infiltration tests to be completed. The trial pits reached depths of between 0.9 and 4.1 m below ground level (bgl). Two pits, referenced Pit A and Pit B, were also excavated into the stockpile in the west of the site.

Infiltration tests were carried out in four trial pits (TP2, TP14, TP18B and TP33B).

In addition, twelve cable percussive boreholes, referenced CP1 to CP12, were undertaken between 4 April and 24 April 2022 to obtain a strength profile of the shallow soils, and determine the depth to the Oxford Clay Formation. The boreholes reached depths of between 15.5 m and 20.37 m bgl.

No exploratory holes were completed within the horse paddock in the far west of the site due to access constraints.

Copies of the exploratory trial pits logs are presented in Appendix 3 and their positions are plotted on the Exploratory Hole Location Plan, drawing 46934/001B, in Appendix 1.

Combined gas and groundwater monitoring wells we also installed in each of the boreholes. Four rounds of gas monitoring have been undertaken at the time of writing.

6.2 Laboratory Testing

A range of samples have been sent to Professional Soils Laboratory for various geotechnical testing, including Atterberg Limits, Triaxial tests, Particle Size Distribution (PSD) tests and soaked California Bearing Ratio (CBR) testing. The geotechnical test results are presented in Appendix 4, and are discussed in Section 8.

Selected samples of topsoil, made ground and natural ground were dispatched for chemical testing. Soil samples were taken in 500 g plastic tubs and 250 ml Amber jars. All samples were analysed at Chemtest Limited, using MCERTs accredited methodologies where available. The chemical test results are presented in Appendix 5 and discussed further in Sections 9 and 10.

7.0 GROUND CONDITIONS

7.1 Surface Covering

Topsoil between 0.2 and 0.9 m thick, and typically around 0.35 m thick, is present at the surface across the agricultural fields. The topsoil generally comprises silty clay or clayey silt, with variable amounts of sand included.

In the 'Brownfield' area in the west of the site, granular made ground was typically encountered at the surface. This typically comprised gravelly sand (and locally sandy clay) with gravel of limestone, brick and chert and occasional cobbles of limestone and brick. This granular surface covering was recorded to be between 0.35 to 0.7 m thick.

Topsoil / made ground was encountered at the surface of TP23 at the periphery of the 'Brownfield' area with a thickness of 0.4 m. This comprised clayey sand with gravel of chert, limestone, brick, macadam and clinker.

7.2 Made Ground

Below the 'Brownfield' area, made ground was recorded to depths of between 0.5 and 1.6 m, but typically to less than 1 m. In TP2, TP21 and TP28, a 0.25 to 0.3 m thick band of cohesive made ground was encountered below the granular surface covering. A second 0.15 m thick band of granular made ground was encountered in TP28 from 0.65 to 0.8 m.

In TP22, a 0.15 m thick band of sandy made ground was encountered below the surface covering. Below the southern half of the pit, cohesive made ground with gravel of limestone and brick and occasional pockets of organic material was encountered below the sandy made ground to 1.6 m. No made ground was recorded below the sandy made ground in the north of the pit.

No made ground was recorded below the 'Greenfield' areas of the site.

7.3 Natural Ground

The natural ground conditions can generally be divided into two distinct areas; the boundary between these areas can be defined as a roughly straight line running between TP2 and TP4 in the north east and TP28 and TP29 in the south east.

North West ~65%

Fine-grained sand (silty and occasionally clayey) was typically encountered below the surface covering. The sand extends to variable depths, ranging between 0.8 and 1.6 m, and around 1.0 m on average.

Silty (occasionally sandy) clay, typically noted to be soft (and occasionally very soft or firm) was encountered below the shallow sand. Silty sandy clay was encountered directly below the topsoil in TP4 to TP6 (north east) and TP15 (north west).

Soft or very soft silty clay underlies this section of the site, encountered from depths of between 1 m and 2.6 m (and typically 1.4 to 2.2 m) to the base of the trial pits (at least 4.1 m in TP11). The clay was noted to contain frequent decaying vegetative matter (e.g., roots) and also gravel-sized pockets of peat, although no significant peat bands were encountered.

It is possible that the shallow superficial deposits comprise Tidal Flat Deposits, which gradually progress into alluvium at greater depths (possibly indicated by the organic-rich clays).

South East ~35%

Silty or sandy clay (and occasionally clayey silt) was typically encountered below the topsoil, extending to depths of between 0.8 m (TP26) and 1.8 (TP1). Further south the clay was typically firm or stiff, and soft in the north east.

Fine-grained silty sand (with bands of sandy silt) was encountered below; the sand often extended to the maximum depth of the trial pits (at least 3.8 m in TP30 and TP32). Very soft silty clay or clayey silt (with pockets of organic matter) was encountered below the sand in TP3 at 3.3 m and TP29 at 2.7 m.

The shallow clay is considered to comprise Tidal Flat Deposits, with the deeper sands/clays potentially comprising alluvium.

Cable Percussive Boreholes

Below the north west ~80% of the site, the superficial deposits comprise predominantly cohesive strata to between 4.8 and 10.0 m bgl. Sand bands (considered to comprise superficial alluvium) ranging between 0.5 and 7.1 m thick were often encountered in the boreholes below around 5 to 8 m depth. A band of sandy gravel or gravelly sand, ranging between 1 and 5 m thick, was encountered below the clay / sand from around 8.0 to 12.5 m depth. This coarser granular strata is expected to be indicative of superficial river terrace deposits.

Below the south east ~20%, alluvial sand was recorded CP5 (0.3 to 6.1 m), CP11 (0.4 to 6.8 m) and CP12 (1.1 to 11.8 m). Cohesive bands between 3 and 5 m thick were encountered below or within the sand in CP5 and CP11 below around 6 m bgl.

A thin band of peat (around 0.15 to 0.2 m thick) was recorded in CP2 (8.9 to 9.05 m), CP4 (7.4 m), CP7 (7.5 to 7.7 m) and CP10 (7.7 to 7.9 m). No other significant peat bands were recorded.

The superficial deposits were recorded to depths of between 11.1 and 13.4 m, with stiff gravelly clay (gravel of chalk) present below. This material most likely represents boulder clay (glacial till) deposits. The Oxford Clay Formation (stiff clay) was encountered at depths of between 16.2 m and 18.3 m.

7.4 Stockpile

Two pits, referenced Pit A and Pit B, were excavated into the stockpile in the west of the site.

Granular made ground, similar to the consistency of the granular made ground encountered at the surface of the adjacent 'Brownfield' area, between 0.25 and 0.5 m thick was encountered at the surface of the stockpile.

Cohesive made ground (firm to stiff sandy gravelly clay) was encountered below. The gravel typically comprised limestone, chert and brick. Cobbles were also recorded in Pit B, in addition to rare gravel of macadam chippings and slag. Pockets of organic clay and decaying organic material were recorded in Pit A.

7.5 Groundwater

Groundwater ingresses were frequently recorded in the trial pits excavated in the north west 65% of the site. Ingresses typically occurred from the cohesive natural strata at depths of between 0.8 m and 2.1 m (and typically 1.4 m to 1.8 m), whilst a seepage was also recorded in the sand in TP7. Ingresses were typically minor, although more significant ingresses were noted in TP5 to TP7, and a fast ingress was noted in TP9.

Of the trial pits excavated in the south east of the site (predominantly sandy natural strata), a slight seepage was only recorded in TP33, close to the southern boundary.

Groundwater strikes were recorded in the boreholes at depths of between 4.0 m and 10.8 m.

At the time of writing, four rounds of groundwater monitoring have been undertaken. Groundwater was recorded to be shallowest during the first monitoring round undertaken on 5 May 2022; the water level in the wells ranged between 0.9 and 1.66 m bgl, and typically within the upper 1.2 m.

The water level dropped in each of the wells during both subsequent monitoring rounds; groundwater was recorded between 1.07 m and 2.04 m during round 2 (15 May 2022), between 1.28 m and 2.73 m during round 3 (27 June 2022), and between 1.28 m and 2.77 m bgl during round 4 (13 July 2022) with the water level dropping by around 0.1 and 0.35 m on average between each visit. During the wetter months of the year, it is generally expected that the groundwater table below the site would lie within the upper 1 m.

Land drains were occasionally encountered in the trial pits at around 1 m depth, often containing a rapid water flow.

8.0 GEOTECHNICAL APPRAISAL

8.1 General

The proposed commercial development is to comprise two large portal-framed warehouses with associated external hardstanding areas and localised soft landscaping.

Ground Conditions

Topsoil between 0.2 and 0.9 m thick, and typically around 0.35 m, is present at the surface of the agricultural fields. Topsoil / made ground, approximately 0.4 m thick on average, is locally present at the surface between the agricultural fields and the 'Brownfield' area. Made ground is present across the surface of the 'Brownfield' area to depths of between 0.5 and 1.6 m.

Below the north west 65% of the site, the shallow natural ground typically comprises sand to between 0.8 m and 1.6 m bgl, overlying soft silty clay. Soft or very soft organic clay was encountered below 1.0 m to 2.6 m bgl. Below the south east 35% of the site, the natural ground generally comprises firm or stiff clay overlying sand from around 0.8 m to 1.8 m. The superficial clays and sands are generally considered to comprise Tidal Flat Deposits below the surface covering, overlying alluvium (i.e., organic clays and sands). A band of sandy gravel / gravelly sand between 1 and 5 m thick which underlies the north west 80% of the site from around 8 m to 12 m bgl may comprise River Terrace Deposits.

The superficial deposits extend to depths of between 11.1 m and 13.4 m, overlying stiff (boulder) clay with gravel of chalk. The Oxford Clay Formation was encountered from around 16.2 to 18.3 m bgl.

Groundwater ingresses were frequently recorded in the trial pits in the cohesive superficial deposits below the north west of the site, typically between 1.4 m to 1.8 m bgl. Groundwater strikes were recorded in the boreholes below 4 m bgl. In the monitoring wells, groundwater was recorded around 1 m below the surface during the first monitoring round. During the wetter months, the groundwater table is expected to lie within the upper 1 m.

Geotechnical Testing

Hand Shear Vanes

Hand shear vane tests were undertaken in the natural cohesive soils.

Below the north west of the site, average shear vane readings undertaken in the shallow silty sandy clay ranged between 16 and 86 kN/m^2, and around 35 kN/m^2 on average (equating to low strength clay). In the underlying organic clay, average shear vane readings ranged between 6 and 28 kN/m^2, and around 15 kN/m^2 on average (equating to very low strength clay).

In the south east of the site, average shear strengths of 18 and 30 kN/m^2 were recorded in the shallow soft clay in TP1 and TP3 in the north east, whilst a strength of 110 kN/m^2 was recorded in stiff clay in TP31 in the south.

Standard Penetration Tests

SPTs were undertaken in the cable percussive boreholes, with a typical depth interval of 1 m in the upper 5 m, and 1.5 m below. In the cohesive superficial deposits, SPT-derived N-values typically equate to extremely soft (N=<2) or very soft (N=2 to 4) strata. N-vales equating to soft (N=5 to 7) or firm (N=8 to 15) strata were locally recorded in CP5, CP10 and CP11, typically below 7 m bgl.

Where granular superficial deposits were encountered from relatively shallow depths in CP5, CP11 and CP12 in the south east, N-values equating to very loose (N=<5) and occasionally loose (N=5 to 10) strata were recorded in the upper 7.5 m. In the deeper, more gravelly superficial deposits, N-values typically equate to medium dense (N=11 to 30) and locally loose strata.

Below the superficial deposits in the stiff gravelly boulder clay, N-values ranged between N=20 and up to N=50 (i.e., refusal), and around N=36 on average, equating to stiff (N=16 to 30) or very stiff (N=31 to 60) strata. Refusals were recorded in the stiff gravelly clay in CP1, 2, 6, 8 and 11 at around 16 m bgl; extrapolated N-values for these refusals range between N=53 and 67.

All SPTs carried out in the Oxford Clay recorded a refusal (i.e., N≥50). In each borehole, either two or three SPTs were undertaken, typically at around 1.5 to 2.0 m depth intervals; the boreholes were deepened by chiselling between each of the tests. Extrapolated N-values range between N=61 up to N=300, with a typical range of between N=70 and 130, and around N=110 on average. This equates to either extremely weak (N=60 to 100) or very weak (N=100 to 500) rock.

Laboratory Testing

29 no. samples of cohesive superficial deposits were submitted for Atterberg limits. The modified plasticity index (MPI) recorded in the samples is highly variable, ranging between 15 and 167%. The samples which recorded an MPI of >100% are considered to relate to organic-rich or peat bands within the clay. Three samples recorded an MPI equating to low (10 to 20%) volume change potential (VCP), eleven samples equate to medium (20 to 40%) VCP and fifteen samples equate to high (>40%) VCP. Five samples of the stiff gravelly clay (below the superficial deposits) and five samples of the Oxford Clay recorded MPIs ranging between 18.2 and 25.6%. High VCP should therefore be used for any design purposes.

Nine U100 samples were submitted for quick undrained triaxial testing. Six samples of the cohesive superficial deposits recorded shear strengths ranging between 17 and 33 kg/m^2, equating to soft or

very soft strata. Two samples of stiff gravelly clay and one sample of Oxford Clay recorded shear strengths ranging between 215 and 243 kg/m^2, equating to very stiff strata.

Six samples of the superficial deposits were submitted for grading (sieve) tests, including one sample of sandy clay (CP9 0.6-1.0 m), three samples of sand (CP5 1.2-2.5 m, CP11 5.0-6.0 m & CP12 3.6-4.5 m) and two samples of gravel (CP4 8.4-9.0 m & CP10 10.3-10.8 m). The samples of clay and sand classify as have classified as Class 2A & 2B (wet or dry cohesive fill) in accordance with Table 6/2 of the Series 600 Specification for Highway Works. The samples of gravel have classified as Class 1A & 1B material (well graded or uniformly graded granular fill).

Other Items of Consideration

Ground levels are expected to be raised across the site to protect against the risk of flooding.

The existing drainage ditches will need to be stopped off at either end, drained and then backfilled with suitable material (either site won or imported). Pumping of water from the ditches will be required. Consideration should be given to completing these works during the drier months of the year. New ditches or piped drainage will need to be provided to divert water flows from/into the surrounding ditch network.

Differential settlement between the proposed structures and external areas will need to be considered due to the soft nature of the ground, with junctions detailed accordingly. Appropriate measures such as flexible service joints and thickened capping beneath hard-standing should be allowed for.

8.2 Foundations

Based on the ground conditions encountered across the site, which include soft or very soft clays, it is not considered that a traditional shallow spread foundation (pads or trench fill footings) will be suitable, for large span buildings, as there is likely to be unacceptable amounts of settlement below such structures. Therefore, piled foundations with reinforced concrete pile caps, below perimeter ground beams and dock levelling walls are considered to be required for the proposed warehouse development.

It is generally expected that piles could be terminated in the stiff gravelly clay which overlies the Oxford Clay formation, which was encountered from around 11 to 13 m, although this is subject to detailed design by a specialist piling contractor. At this stage, it is recommended that cost allowance is made for the pile to be extended into the Oxford Clay Formation encountered from around 16 to 18 m bgl. A minimum bearing capacity of 200 kN/m^2 is considered to be appropriate for the stiff gravelly clay, increasing to at least 500 kN/m^2 for the Oxford Clay.

8.3 Ground Floors

It is expected that a suspended concrete floor, supported on piles will be required for the proposed buildings due to the expected loadings and tolerances required for such developments.

However, settlement analysis will need to be completed on the soft Tidal Flat Deposits to determine whether predicted settlement amounts will be within allowable tolerances once the geotechnical test results have been received and once detailed building layouts and loading information are available.

8.4 Superstructure Precautions

Additional superstructure precautions are not considered to be required based on the ground conditions encountered.

8.5 Obstructions and Excavation Problems

Overhead electricity lines cross the north west of the site. A rising main and a water main (now largely abandoned) also cross below the west of the site. These may need to be diverted as part of the development.

Land drains were occasionally encountered in the trial pits. An extensive land drainage system is expected below the site, and will also need to be taken account of as part of any future development.

The historical maps note a pump and three wells to have been present within and in the vicinity of the original farm buildings in the west of the site. The present condition of these wells is not known, but if encountered these will need to be capped as part of the development.

The majority of the pits excavated in the south east of the site where sandy Tidal Flat Deposits were encountered suffered from side collapses as the pits were deepened to around 3 to 4 m. Temporary support will be required in accordance with current Health & Safety Regulations wherever access is required to trenches deeper than 1.2 m or less where there is risk of collapse.

8.6 Roads

Bulk samples of the shallow ground were collected from five boreholes and one trial pit within the upper 1.8 m and submitted for soaked CBR testing. The samples include one sample of made ground, three samples of natural clay and two samples of natural sand. The results are summarised in the table below.

Sample	Laboratory Description	CBR Value (%)		
		Sample Top	Sample Bottom	Average
CP3 0.5-1.2 m	Sandy very silty CLAY.	1.9	2.7	2.3
CP5 0.5-1.2 m	Very sandy slightly clayey SILT	0.8	0.8	0.8
CP7 1.2-1.8 m	Slightly sandy CLAY	0.2	0.3	0.25
CP9 0.0-0.3 m	Gravelly sandy CLAY (Made Ground)	20.5	25.1	22.8
CP11 0.5-1.0 m	Clayey very sandy SILT	30.5	24.8	27.65
TP3 1.3 m	Very sandy clayey SILT	0.8	1.3	1.05

Average CBR values between 1.65 and 2.25% were recorded for the shallow soils during the previous investigation carried out by GeoDyne.

Based on the above results, a CBR value of less than 2% should be assumed for road design. An allowance should therefore be made for a thickened road construction and the incorporation of a geogrid.

It is expected that ground levels will be raised across the site due to the risk of flooding. It is recommended that CBR tests are undertaken along any proposed roads or large external hardstanding areas prior to construction so that accurate CBR values can be obtained.

8.7 Surface Water Drainage

Soakaway tests were undertaken in four trial pits; TP2/SA1, TP14/SA2, TP18B/SA3 and TP33B/SA4.

SA1 was terminated at 2.2 m in sand. The water level rose over the duration of the test, and an infiltration rate could not be calculated. SA2 was terminated at 1.7 m in soft clay. The water level drained by 10 mm during the first 3 minutes of the test before stabilising and failing to drain further over the remainder of the test.

SA3 and SA4 were completed at shallower depths of 0.9 m and 0.95 m. Average infiltration rates of 4.5×10^{-6} m/s and 2.2×10^{-6} m/s were recorded for these tests, although BR365 infiltration rates could not be calculated as the water failed to drain past 25% effective depth.

Due to the very low infiltration rates recorded, in addition to the predominantly cohesive shallow ground conditions, soakaway drainage is not considered to be viable for the proposed development. A piped connection to the existing drainage network (local ditch network or sewers) and significant amounts of on-site attenuation are considered to be required.

9.0 REFINEMENT OF OUTLINE CONCEPTUAL MODEL

9.1 Source Characterisation

An outline conceptual model, detailing the possible sources and associated contaminants of concern, potential pathways and receptors identified in the Phase 1 is set out in Section 4.

This section of the report documents the works undertaken to obtain information to test and refine this model enabling a risk assessment to be produced and, where significant risks are expected, remediation recommendations.

9.2 Ground Gas

No radon protection measures are required for the site.

Frequent small pockets of organic material (including vegetative material and peat) were recorded in the deeper clay encountered below the north west of the site. A 0.2 m thick band of peat was recorded in CP9 at 7.7 m, although no other significant peat bands were recorded in the trial pits or boreholes.

Twelve gas monitoring wells have been installed across the site, and at the time of writing four rounds of gas monitoring have been completed. Gas and groundwater were also recorded in one monitoring well (WS2) installed by GeoDyne during the previous investigation during monitoring round 1.

The following results were recorded:

- A maximum methane concentration of 2.0% in CP6 during monitoring round 1. Zero methane was recorded in the well during subsequent rounds and no methane has been recorded in any of the other wells on any occasion;
- A maximum carbon dioxide concentration of 9.5% was recorded in CP9 during round 4. The same well recorded concentrations of 1.8%, 5.3% and 8.0% during the previous rounds. None of the other wells recorded carbon dioxide concentrations in excess of 5%, but concentrations excess of 4% have been recorded in a number of locations;
- Oxygen concentrations ranging between 5.7% and 20.9%;
- A maximum positive flow of 0.6 l/hr was recorded in CP7 during round 3. In addition. negative flows were recorded in CP1, CP6 and CP7, with a maximum peak negative flow of 10 l/hr and maximum steady negative flow of 0.7 l/hr recorded. Zero flow was typically recorded in the wells;

- Groundwater was recorded at depths of between 0.9 m and 1.66 m bgl during the first round of monitoring, between 1.07 m and 2.04 m bgl during round 2, between 1.28 m and 2.73 m bgl during round 3, and between 1.46 m and 2.77 m bgl during round 4.

The results are discussed in greater detail in Section 7.5.

9.3 Unexpected Contamination

No visual or olfactory evidence of significant contamination was recorded in any of the exploratory holes undertaken across the site.

9.4 Chemical Testing

Eighteen samples of topsoil, nine samples of made ground (including three collected from the existing on-site stockpile), and sixteen samples of natural ground were dispatched for chemical testing. The majority of the samples were analysed for the suite of contaminants listed in the following table:

Contaminant Type	Actual Contaminants
Metals/Metalloids	Arsenic, cadmium, chromium (III and VI), lead, mercury, nickel, selenium, copper and zinc
pH	pH
PAHs	Speciated PAH
Sulphates*	Water soluble sulphate, acid soluble sulphate and total sulphur

*Made and natural ground samples only

In addition to the above, the following testing was undertaken:

- Asbestos screens on all samples of topsoil and made ground;
- General pesticide/herbicide suites on three samples of topsoil (TP11, TP17 and TP29), and testing for the pesticide Pendimethalin on another three samples of topsoil (TP3, TP19 and TP31);
- Total Organic Carbon (TOC) on five samples of topsoil and three samples of made ground;
- Samples of the natural ground collected from below 1 m bgl (from TP4, TP8, TP11, TP21 and TP24) were tested for pH and a sulphate suite only, in addition to Total Organic Carbon (TOC);
- Fourteen samples of natural ground sent to PSL were also tested for a sulphate suite.

9.5 Assessment Criteria

The proposed development of the site is for two large warehouses with associated external hardstanding areas and localised soft landscaping. Tables detailing the relevant assessment concentrations for a commercial / industrial end-use are included in Appendix 5.

9.6 Chemical Test Results

9.6.1 Topsoil & Topsoil/Made Ground

Five samples of topsoil were tested for TOC and an average concentration of 1.0%, equivalent to 1.75% soil organic matter (SOM). Assessment values have therefore been derived for 1% SOM.

No elevated concentrations of metals or PAHs have been recorded. Asbestos fibres were not detected in any of the samples.

No pesticides/herbicides were detected in the samples of topsoil which were tested.

9.6.2 Made Ground (Including Stockpile)

One sample of granular made ground was tested for TOC and recorded a concentration of 0.34%, equivalent to 0.58% SOM. Two samples of the cohesive stockpile made ground recorded an average TOC of 0.87%, equivalent to 1.5% SOM. Assessment values assuming 1% SOM have therefore been used.

No elevated concentrations of metals were recorded.

One sample of the granular surface made ground (TP20 0.1 m) recorded one slightly elevated PAH compound, however. Dibenz[a,h]anthracene recorded a concentration of 3.9 mg/kg compared to the assessment value of 3.5 mg/kg. A modified mean of 2.54 mg/kg has been calculated across the five samples of surface made ground tested.

No other elevated PAH compounds were recorded.

Asbestos fibres were not detected in any of the samples.

9.6.3 Natural Ground

None of the samples recorded any elevated concentrations of heavy metals/metalloids or PAHs.

9.6.4 Sulphates

The site has been taken as a Brownfield location (worst-case) in relation to the Aggressive Chemical Environment for concrete classifications and groundwater is assumed to be mobile.

Across the samples of made ground, the maximum total potential sulphate (TPS) concentration is calculated to be 1.17%, with a maximum water-soluble sulphate (WSS) concentration of 1,100 mg/l. Characteristic values have been calculated across the samples of made ground; TPS reduces to 0.93% and WSS reduces to 745 mg/l. The samples recorded a pH of between 8.1 and 8.6.

In the samples of superficial clay and sand collected from the upper 1.2 m, a maximum TPS concentration of 0.39% was recorded in sample TP21 1.2 m. The characteristic value reduces to 0.201%. A maximum WSS concentration of 190 mg/l was recorded and pH varied between 8.2 and 8.7.

In the samples of superficial deposits collected from below 1.2 m, a maximum TPS concentration of 22.2% and WSS concentration of 2,946 mg/l were recorded in a sample of peat (CP10 7.7-8.2 m). In the samples of superficial clay, a maximum TPS concentration of 17.6% and WSS concentration of 1,130 mg/l were recorded. Characteristic values have been calculated; TPS reduces to 9.65% and WSS reduces to 981 mg/l. The pH of the samples ranges between 7.3 and 8.5.

In the samples of the stiff gravelly clay and the underlying Oxford Clay, a maximum TPS concentration of 6.2% and WSS concentration of 698 mg/l have been recorded. The pH ranges between 8.4 and 9.1.

9.7 Significant Pollutant Linkages

The significant pollutant linkages identified are documented in the following table.

Source	Contaminant	Pathway	Receptor
Made ground	PAHs	Ingestion Inhalation Direct contact Migration through ground	Site end-users Site construction workers Water supply pipes
Made & natural ground	Sulphates	Direct contact	Sub-surface concrete

10.0 RISK ASSESSMENT

10.1 Human Health: Future Site Users

No elevated concentrations of contaminants or asbestos fibres have been recorded in the samples of topsoil. It is expected that the topsoil can be reused without the need for any remedial works. However, the majority of the topsoil is expected to be removed from site, due to the nature of the proposed development.

One sample of the surface made ground in the 'Brownfield' area (TP20 0.1 m) recorded a slightly elevated concentration of Dibenz[a,h]anthracene; TP20 is expected to lie below the footprint of one of the proposed warehouses. A modified mean has been calculated across the made ground samples (2.54 mg/kg) which falls below the assessment value of 3.5 mg/kg, and therefore a significant risk to future site users is not expected to be presented by this localised exceedance. No capping layer is considered to be necessary where made ground remains below soft landscaped areas. However, soft landscaping is not proposed on the site, with the majority of the ground being hard covered by either the buildings or the external service yards. In addition, it is likely that the ground level will be raised across the site due to flood defence, and therefore the made ground will effectively be 'capped' in any case.

No other elevated concentrations of contaminants were recorded.

Elevated concentrations of contaminants were not recorded in the natural ground and therefore arisings of natural soil can be reused on site with no remediation required.

Given the above, site-won materials are considered to be suitable for re-use as part of the development. Where made ground remains below soft landscaped areas, a minimum 100 mm growing medium should be provided for plants.

10.2 Human Health: Construction Workers

Groundworkers employed during the construction phase of the development are most at risk of harm due to them having direct contact with affected soils. However, the contact is generally of short duration, and all competent groundworkers will be aware of the potential risks associated with handling soils. Therefore, the overall risk to the health of construction workers from chemical contaminants within the soil is considered to be extremely low.

All ground workers employed on the site should be made aware that elevated concentrations of PAHs may be present within the made ground in the west of the site. Normal site procedures such as the wearing of gloves when handling soils, and the washing of hands prior to eating should be implemented.

Any unusual, brightly coloured, ashy or odorous material or material suspected of containing asbestos encountered during construction should be brought to the attention of the site staff and investigated.

10.3 Construction Materials

The chemical results indicate that DS-3 AC-3 sulphate precautions are required for sub-surface concrete in contact with the made ground.

No sulphate precautions are considered to be required for sub-surface concrete in contact with the shallow natural ground only. Where subsurface concrete is contact with the deeper organic superficial deposits, the results indicate that a design sulphate class of DS-5 is required for subsurface concrete. However, in accordance with the BRE Special Digest (2005) guidance, the design sulphate class may be reduced from DS-5 to DS-4 where the water-soluble sulphate concentration is equivalent to AC-4 or less (the sample of peat taken from CP10 is equivalent to DS-3). DS-4 AC-4 sulphate precautions are therefore considered to be appropriate for the deeper superficial deposits.

The chemical test results will need to be submitted to the water supplier for review so that appropriate water supply pipes can be selected.

10.4 Ground Gas

No radon precautions are required for the site.

During previous gas monitoring carried out by GeoDyne, a maximum methane concentration of 1.2% was recorded in WS10 during monitoring round 1, but did not exceed 0.1% during remaining rounds. Carbon dioxide concentrations between 5 and 6% were recorded in WS7 and WS10, installed in the west of the site adjacent to the stockpile. Zero flow was recorded in the wells.

A programme of gas monitoring is currently underway as part of the investigation by ECE; at the time of writing, four rounds of gas monitoring have been completed. The results are included in Appendix 6.

A maximum methane concentration of 2% was recorded in CP6 during monitoring round 1. No methane has been recorded during the remaining monitoring rounds or in the other wells installed by ECE.

A maximum carbon dioxide concentration of 9.5% was recorded in CP9 during round 4. 8% carbon dioxide was also recorded in this well during round 3. None of the other wells have recorded carbon dioxide in excess of 5%.

A peak positive flow of 0.6 l/hr was recorded.

Using the maximum recorded methane concentration, a gas screening value (GSV) of 0.012 l/hr can be calculated. A GSV of 0.057 l/hr can be calculated for carbon dioxide.

In accordance with BS8485:2015 +A1:2019, the GSV for both methane and carbon dioxide fall within the limits of Characteristic Situation 1 (CS1), for which no gas precautions are required. However, the maximum recorded methane and carbon dioxide concentrations exceed the upper limit for CS1, and are considered to fall within the limits of CS2 classification.

The monitoring wells which recorded elevated concentrations of methane and carbon dioxide (ECE's CP6 and CP9; GeoDyne's WS7 and WS10) are located in the south west and centre of the site; a CS2 classification is considered to be appropriate for any future development located in this section of the site. A CS1 classification (i.e., no gas precautions) is considered to be appropriate for development located to the north of a line between CP1 and CP5 and east of a line between CP4 and CP10.

In accordance with the above guidance, the majority of the main building of the proposed development would class as a Type D building, which requires a gas protection score of 1.5 for CS2 gas precautions. A suspended (piled) ground floor slab (which is recommended for the development) is considered to provide 1.5 gas protection points. Therefore, no additional gas precautions are considered to be necessary at this stage for the main warehouse spaces.

However, if offices or other enclosed workstations are to be included, these may classify as a Type C structures, for which 2.5 gas protection points are required to meet the requirements for CS2. The additional precautions would likely comprise the inclusion of a gas resistant membrane below the enclosed spaces for buildings covering the south western portion of the site (south of a line between CP1 and CP5 and west of a line between CP4 and CP10).

10.5 Plants

No elevated concentrations of any phytotoxic contaminants have been recorded in the soils below the site. The risk to plant growth is therefore considered to be negligible from site won materials.

10.6 Controlled Waters

The superficial Tidal Flat Deposits and the underlying Oxford Clay Formation are classified as Unproductive Strata. Various drainage ditches are located on the site and also around the site boundaries.

One sample of made ground recorded a slightly elevated concentration of Dibenz[a,h]anthracene. However, no evidence of migrating contamination was noted, with no elevated contaminants recorded in the underlying natural ground.

The risk of migrating contamination is considered to be negligible since the superficial deposits are classed as Unproductive Strata. However, due to the presence of drainage ditches on and around the site, standard good site practice must be adhered to, to ensure that this remains the case.

10.7 Disposal of Material

If material needs to be removed, it should to be taken to a suitably licensed landfill or waste treatment facility. The costs of disposal and landfill tax can be substantial. The disposal of material should therefore be seen as a last resort with options such as treatment and reuse either on-site or off-site considered where possible.

The category of landfill which can accept the waste (inert, non-hazardous or hazardous) would need to be determined and will also have a significant effect on the costs. Additional testing may be required by the landfill operator and the acceptance of material is generally at their discretion.

Appendix 1

‘Exploratory Hole Location Plan’, Drawing Number 46934/001B

INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

Key:

- Approximate extent of historical buildings (stores).
- Approximate extent of stockpile.
- HV — Approximate location of overhead high voltage electricity cable.
- W — Approximate location of water pipe.
- Approximate location of disused water pipe.
- SW — Approximate location of rising main.
- Approximate location of trial pit completed by GeoDyne June 2021
- Approximate location of window sample borehole completed by GeoDyne in June and July 2021.
- Approximate location of trial pit completed by Eastwood Consulting Engineers between 12th and 13th April 2022.
- Approximate location of cable percussion borehole completed by Easwood Consulting Engineers between 4th and 24th April 2022.
- Trial pit with soakaway test.
- 0.3 — Depth to base of topsoil (m).
- 0.7 — Depth to base of made ground (m).

REV	DESCRIPTION	SIG	CHK	DATE
B	Made ground depths added for cable percussion boreholes and revised title block.	AS	DN	01.07.2022
A	First Issue.			

ALCAN PROPERTIES LIMITED

LINCS GATEWAY, SPALDING, LINCOLNSHIRE

EXPLORATORY HOLE LOCATION PLAN

Eastwood
CONSULTING ENGINEERS
St Andrew's House
23 Kingfield Road
Sheffield, S11 9AS
T: 0114 255 4554
E: mail@eastwoodce.com
eastwoodce.com

SCALE WHEN PLOTTED AT A1	DRAWING STATUS
1:1250	PRELIMINARY

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
AS	DN	28.04.2022	46934/001	A

Appendix 2

Envirocheck

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
293435682_1_1

Customer Reference:
46934

National Grid Reference:
524300, 320000

Slice:
A

Site Area (Ha):
21.11

Search Buffer (m):
1000

Site Details:

Site at 524540, 319980

Client Details:

Mrs K Betson
Eastwood & Partners Ltd
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

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Introduction

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

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Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1	2	7
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3				3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 4		1	1	3
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4			1	1
River Quality Biology Sampling Points	pg 5				1
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 5			3	6 (*23)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 13	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 14	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 15	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas	pg 17		Yes	n/a	n/a
Flood Defences	pg 17		Yes	n/a	n/a
OS Water Network Lines	pg 17	23	69	72	106

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 48	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 48				1
Potentially Infilled Land (Water)	pg 48			4	4
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 48				1
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 49	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 49	Yes			Yes
BGS Recorded Mineral Sites	pg 49				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 49	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 52		1	4	26
Fuel Station Entries	pg 54		1		
Points of Interest - Commercial Services	pg 54			1	14
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 56		1	5	18
Points of Interest - Public Infrastructure	pg 58		1		4
Points of Interest - Recreational and Environmental	pg 58				1
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 59	1			1
Ramsar Sites					
Sites of Special Scientific Interest	pg 59			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Mr. & Mrs. S.R. Tidswell Property Type: Not Supplied Location: House Adj 18 Fen End Lane, Spalding, Lincs., Pe12 6ad Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3903 Permit Version: 1 Effective Date: 3rd August 1983 Issued Date: 3rd August 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A11NW (N)	214	1	524210 320450
2	**Discharge Consents** Operator: Mr. G. Smith Property Type: Not Supplied Location: House At Fen End Lane, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3822 Permit Version: 1 Effective Date: 1st March 1982 Issued Date: 1st March 1982 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A11NE (N)	364	1	524240 320620
3	**Discharge Consents** Operator: Mr D J & Mrs J M Twigg Property Type: Domestic Property (Single) Location: St Joseph'S House Barrier Bank, Cowbit Road, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5020 Permit Version: 1 Effective Date: 7th December 1984 Issued Date: 7th December 1984 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A15SW (N)	451	1	524200 320700
4	**Discharge Consents** Operator: Clay Lake Farms Ltd Property Type: Arable Farming Location: Clay Lake, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Gwnlf40188 Permit Version: 1 Effective Date: 31st March 1999 Issued Date: 5th July 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge Environment: Groundwater Receiving Water: Groundwater **Status: Deemed Groundwater Regulations Authorisation** Positional Accuracy: Located by supplier to within 100m	A12NE (NE)	519	1	525200 320400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Mr K A Hayhurst Property Type: Domestic Property (Single) Location: Spalding Common No.42 Spalding Common, Spalding, Lincolnshire, Pe11 3au Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02525 Permit Version: 1 Effective Date: 24th April 1990 Issued Date: 24th April 1990 Revocation Date: 23rd July 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A6NW (W)	792	1	523420 319900
6	**Discharge Consents** Operator: Welland Yacht Club Property Type: Not Supplied Location: Welland Yacht Club, River Bank, Spalding, Pe11 3aa Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3041 Permit Version: 1 Effective Date: 1st August 1997 Issued Date: 1st August 1997 Revocation Date: 1st August 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A15NW (N)	805	1	524100 321040
7	**Discharge Consents** Operator: G R Hastings Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Locksmill House The Island, Cowbit Rd, Spalding, Lincs, Pe12 6aa Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Prnnf09915 Permit Version: 1 Effective Date: 12th December 1995 Issued Date: 12th December 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: New River **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A15NE (N)	889	1	524240 321150
8	**Discharge Consents** Operator: Tarmac Trading Limited Property Type: MAKING OF GLASS/CERAMICS/CEMENT/CUTTING STONE Location: Lafarge Readymix Spalding Cradge Bank, Spalding, Lincolnshire, Pe11 3ab Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf04494 Permit Version: 2 Effective Date: 9th May 1994 Issued Date: 9th May 1994 Revocation Date: 18th November 2021 Discharge Type: Trade Discharge - Process Water Discharge Environment: Freshwater Stream/River Receiving Water: Tributary River Welland **Status: Surrendered under EPR 2010** Positional Accuracy: Located by supplier to within 100m	A15NW (N)	965	1	523890 321130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Redland Readymix Ltd Property Type: MAKING OF GLASS/CERAMICS/CEMENT/CUTTING STONE Location: Lafarge Readymix Spalding Cradge Bank, Spalding, Lincolnshire, Pe11 3ab Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf04494 Permit Version: 1 Effective Date: 13th September 1991 Issued Date: 13th September 1991 Revocation Date: 8th May 1994 Discharge Type: Trade Discharge - Process Water Discharge Environment: Freshwater Stream/River Receiving Water: Trib River Welland **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A15NW (N)	965	1	523890 321130
9	**Discharge Consents** Operator: Mr. J. Wilcock Property Type: Not Supplied Location: House At Cradge Bank Road, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3885 Permit Version: 1 Effective Date: 23rd March 1983 Issued Date: 23rd March 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14SW (NW)	978	1	523500 320800
10	**Local Authority Pollution Prevention and Controls** Name: S L Patterns Location: Spalding Common, Spalding, Lincolnshire, PE11 3AS Authority: South Holland District Council, Environmental Services Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	A10NW (W)	904	2	523327 320370
11	**Local Authority Pollution Prevention and Controls** Name: South Lincs Patterns Location: Spalding Common, Spalding, Lincolnshire, PE11 3AS Authority: South Holland District Council, Environmental Services Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG2/6 Aluminium and aluminium alloy processes **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A10NW (W)	958	2	523273 320378
12	**Local Authority Pollution Prevention and Controls** Name: Hope Cement Ltd Location: Cradge Bank, Spalding, PE11 3AB Authority: South Holland District Council, Environmental Services Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Authorised** Positional Accuracy: Located by supplier to within 100m	A14NE (NW)	983	2	523800 321100
	Nearest Surface Water Feature	A8NW (E)	0	-	524721 319917

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Not Applicable Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Miscellaneous - Natural Note: New River Incident Date: 28th September 1998 Incident Reference: 2738 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Algal Bloom Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	242	1	524100 319700
14	**Pollution Incidents to Controlled Waters** Property Type: Food industry Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Organic Wastes: Vegetable Washings Note: Exeter Drain Incident Date: 10th January 1996 Incident Reference: 2155 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (E)	398	1	525200 319700
15	**Pollution Incidents to Controlled Waters** Property Type: Sheep Location: Spalding District, SPALDING Authority: Environment Agency, Anglian Region Pollutant: Organic Wastes: Animal Carcasses Note: River Welland Incident Date: 15th February 1999 Incident Reference: 2791 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SW (W)	698	1	523500 320200
16	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Crude Sewage Note: New River Incident Date: 6th February 1997 Incident Reference: 2406 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SW (N)	740	1	524200 320995
16	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: SPALDING Authority: Environment Agency, Anglian Region Pollutant: Crude Sewage Note: New River Incident Date: 6th February 1997 Incident Reference: 2406 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SW (N)	745	1	524200 321000
	River Quality Name: Welland GQA Grade: River Quality B Reach: Folly R....New R. Spalding Estimated Distance (km): 20 Flow Rate: Flow less than 5 cumecs Flow Type: River Year: 2000	A6NE (W)	470	1	523774 319812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Welland GQA Grade: River Quality B Reach: New R. Spalding...Tidal Limit (1) Estimated Distance (km): 4 Flow Rate: Flow less than 2.5 cumecs Flow Type: River Year: 2000	A15NE (N)	767	1	524349 321031
17	**River Quality Biology Sampling Points** Name: Welland (Coronation Cut) Reach: New River Spalding To Tidal Limit (1) Estimated Distance: 4.00 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2002 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2003 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2004 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2009 GQA Grade: River Quality Biology GQA Grade B - Good	A15NW (N)	844	1	524200 321100
18	**Water Abstractions** Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Exeter Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (NE)	470	1	525100 320400
19	**Water Abstractions** Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Exeter Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	471	1	525200 319600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Water Abstractions** Operator: F A Drury Farms Ltd Licence Number: 5/31/14/*s/163b Permit Version: Not Supplied Location: Clowacre Drainage System, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 8 Yearly Rate (m3): 4000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	475	1	525200 319595
20	**Water Abstractions** Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Clowacre Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NE (NE)	557	1	525100 320495
21	**Water Abstractions** Operator: J & L Boor Licence Number: 5/31/14/*S/0185 Permit Version: 101 Location: The New River At Cowbit Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 23rd February 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	668	1	524170 319130
21	**Water Abstractions** Operator: J And L D Boor Licence Number: 5/31/14/*S/0185 Permit Version: 103 Location: The New River At Cowbit Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 8th December 2020 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	685	1	524184 319104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Water Abstractions** Operator: J & L Boor Licence Number: 5/31/14/*S/0185 Permit Version: 102 Location: The New River At Cowbit Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 18th September 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NW (S)	685	1	524184 319104
22	**Water Abstractions** Operator: R Chappell & Sons Licence Number: 5/31/14/*S/0020 Permit Version: 100 Location: R Welland & Drains,Cowbit Wash Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 1st April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	692	1	523500 320100
23	**Water Abstractions** Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Farm Drain (Drain Bank), COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	789	1	525200 319200
	Water Abstractions Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Clowacre Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16SE (NE)	1040	1	525200 320995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: F A Drury Farms Ltd Licence Number: 5/31/14/*s/163b Permit Version: Not Supplied Location: Clowacre Drainage System, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 8 Yearly Rate (m3): 4000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SE (SE)	1062	1	525100 318800
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Parsons Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1297	1	525001 318501
	Water Abstractions Operator: Honourable R.F.J. Carington Licence Number: 5/31/14/*s/208 Permit Version: Not Supplied Location: South Drove Drain, DEEP ST JAMES Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1303	1	523400 318900
	Water Abstractions Operator: Honourable R.F.J. Carington Licence Number: 5/31/14/*s/208 Permit Version: Not Supplied Location: Jordan's Drain, DEEP ST JAMES Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1307	1	523400 318895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: W D Branton Licence Number: 5/31/14/*S/0158 Permit Version: 100 Location: South Drove Drain Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st June 1983 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NE (W)	1321	1	522900 319800
	Water Abstractions Operator: The Hon Rfj Carington Licence Number: 5/31/14/*s/233 Permit Version: Not Supplied Location: South Drove Drain, DEEPING ST NICHOLAS Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Status: Temporary Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SW (SW)	1373	1	523300 318900
	Water Abstractions Operator: W D Branton Licence Number: 5/31/14/*s/158 Permit Version: Not Supplied Location: South Drove Drain Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 28 Yearly Rate (m3): 1200000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (W)	1406	1	522800 319900
	Water Abstractions Operator: C Slooten Ltd Licence Number: 5/31/14/*S/0113 Permit Version: 100 Location: R Welland (Coronation Channel) Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 September Authorised End: 31 October Permit Start Date: 1st February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1463	1	524600 321700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: F A Drury Farms Ltd Licence Number: 5/31/14/*s/163a Permit Version: Not Supplied Location: New River At, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 12 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1556	1	525200 318300
	Water Abstractions Operator: T R Pick Ltd Licence Number: 5/31/14/*s/161b Permit Version: Not Supplied Location: The New River, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 10 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SE)	1561	1	525200 318295
	Water Abstractions Operator: Florapak Ltd Licence Number: 5/31/14/*s/137 Permit Version: Not Supplied Location: Drain & Spoil Pits, SPALDING Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 2 Yearly Rate (m3): 114000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1639	1	524200 321900
	Water Abstractions Operator: G. R. N. Bell Licence Number: 5/31/14/*s/030 Permit Version: Not Supplied Location: South Drove Drain, SPALDING Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 5 Yearly Rate (m3): 409140 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1721	1	523500 318300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Honourable R.F.J. Carington Licence Number: 5/31/14/*s/208 Permit Version: Not Supplied Location: South Drove Drain , DEEP ST JAMES Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1757	1	523600 318200
	Water Abstractions Operator: Honourable R.F.J. Carington Licence Number: 5/31/14/*s/208 Permit Version: Not Supplied Location: Jordan's Drain, DEEP ST JAMES Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1762	1	523600 318195
	Water Abstractions Operator: E D & A D Cooke Ltd Licence Number: 5/31/14/*S/0190 Permit Version: 100 Location: Jordans Drain -Deeping St.Nich Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st October 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NW (SW)	1832	1	522600 319100
	Water Abstractions Operator: W D Branton Licence Number: 5/31/14/*S/0190 Permit Version: 102 Location: Jordans Drain -Deeping St Nicholas Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NW (SW)	1837	1	522610 319070

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: E D & A D Cooke Ltd Licence Number: 5/31/14/*S/0190 Permit Version: 101 Location: Jordans Drain -Deeping St Nicholas Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 22nd December 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NW (SW)	1837	1	522610 319070
	Water Abstractions Operator: W D Branton Licence Number: 5/31/14/*s/158 Permit Version: Not Supplied Location: South Drove Drain Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 28 Yearly Rate (m3): 1200000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1845	1	523600 318100
	Water Abstractions Operator: R F J Carington Licence Number: 5/31/14/*S/0233 Permit Version: 101 Location: Jordan'S Drain,Deeping St N. Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Temporary Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1894	1	523500 318100
	Water Abstractions Operator: R F J Carington Licence Number: 5/31/14/*S/0233 Permit Version: 101 Location: South Drove Drain,Deeping St N Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Temporary Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1894	1	523500 318100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Hon Rfj Carington Licence Number: 5/31/14/*s/233 Permit Version: Not Supplied Location: Jordan's Drain, DEEPING ST NICHOLAS Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 40 Yearly Rate (m3): 1100000 Details: Status: Temporary Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1972	1	522400 319200
	Water Abstractions Operator: W D Branton Licence Number: 5/31/14/*s/158 Permit Version: Not Supplied Location: Internal Drains Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 28 Yearly Rate (m3): 1200000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1982	1	523700 317900
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A11SE (SE)	0	3	524300 319996
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A11SE (N)	0	3	524300 320000
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A11SE (N)	0	3	524300 320000
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A11SE (SE)	0	3	524300 319996
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A11SE (SE)	0	3	524300 319996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A11SE (N)	0	3	524300 320000
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	0	1	524362 319991
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (SE)	0	1	524300 319996
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (SE)	0	1	524540 319710
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524402 320102
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (S)	0	1	524350 319867
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	0	1	524361 319975
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524365 320025
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524377 320045
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524383 320050
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524380 320125
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	0	1	524375 320130
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	2	1	524410 320225
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (S)	37	1	524315 319770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	50	1	524670 319725
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SE (SE)	80	1	524540 319640
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (N)	86	1	524390 320326

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NE (N)	127	1	524360 320384
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NE (N)	155	1	524355 320415
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NE (N)	178	1	524351 320440
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11NE (N)	192	1	524370 320450
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SE (S)	218	1	524355 319540
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (SE)	0	1	524300 319996
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SE (N)	0	1	524268 320184
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A7NE (E)	0	1	524388 319981
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7NE (S)	0	1	524358 319797
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (SE)	13	1	524628 319740
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (SE)	13	1	524688 319771
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	43	1	524685 319745
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7NE (SE)	44	1	524530 319670
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	45	1	524640 319710
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	66	1	524580 319660
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A11SE (NE)	76	1	524455 320285

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8SW (SE)	77	1	524590 319651
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (SE)	79	1	524665 319685
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	85	1	524670 319681
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8SW (SE)	90	1	524598 319640
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	94	1	524808 319775
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (SE)	99	1	524810 319770
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8SW (SE)	110	1	524605 319621
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A11NE (N)	129	1	524388 320375
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SE (SE)	129	1	524475 319590
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NW (SE)	156	1	524838 319720
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SE (S)	167	1	524480 319531
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8NW (SE)	171	1	524820 319685
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SE (S)	178	1	524478 319540
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A7SE (S)	218	1	524355 319540
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A7SE (S)	243	1	524358 319510
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A8NE (E)	247	1	525055 319772

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A12SE (E)	249	1	524958 320221
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas Type: Flood Water Storage Areas Reference: Not Supplied	A7NW (W)	7	1	524191 319990
	Flood Defences Type: Flood Defences Reference: Not Supplied	A7NW (W)	8	1	524193 319987
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 194.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	0	4	524328 319824
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (SE)	0	4	524496 319726
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	0	4	524566 319735
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	0	4	524566 319735
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	0	4	524344 319839
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	0	4	524303 319847
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524720 319836

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524734 319847
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524731 319864
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524737 319850
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 350.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (E)	0	4	524386 319983
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524727 319882
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524725 319882
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524725 319907
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 141.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524782 319883
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524725 319910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524722 319917
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	0	4	524721 319923
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (W)	0	4	524225 319973
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	0	4	524570 319731
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (SE)	0	4	524496 319726
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 368.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	0	4	524412 320090
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	0	4	524894 319969
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	1	4	524409 320225
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	2	4	524432 320213

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 274.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	2	4	524432 320213
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (E)	2	4	524659 320088
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 329.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (E)	2	4	524739 320049
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (E)	2	4	524739 320049
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 42.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (E)	2	4	524863 319993
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	2	4	524903 319976
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	2	4	524903 319976
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 316.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SW (E)	3	4	524659 320088
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	3	4	524905 319975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	10	4	524910 319981
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 462.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	16	4	524359 319767
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	20	4	524588 319705
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 86.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	20	4	524753 319825
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	20	4	524736 319813
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	20	4	524928 319965
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	21	4	524825 319871
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	21	4	524329 319776
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	21	4	524923 319955

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	24	4	524932 319963
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	24	4	524588 319705
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	24	4	524932 319963
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SW (NW)	25	4	524169 320087
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	28	4	524825 319871
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	28	4	524937 319967
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (S)	31	4	524235 319838
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	39	4	524836 319866
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	43	4	524436 320258

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 203.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SE (NE)	43	4	524436 320258
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 391.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (E)	45	4	524843 319863
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	54	4	524962 319975
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NE (SW)	55	4	524226 319840
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	59	4	524965 319990
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	70	4	524615 319667
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 315.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	71	4	524947 320030
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 179.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	75	4	524963 320022
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	76	4	524979 320000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 217.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (SE)	77	4	524503 319638
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 447.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A11SW (NW)	78	4	524114 320082
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 274.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A7NW (W)	80	4	524117 319988
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 413.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NW (SE)	80	4	524628 319661
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 139.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	87	4	524364 320340
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 522.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (SE)	93	4	524520 319622
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 124.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	100	4	524402 320336
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	111	4	525019 320012
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	113	4	525020 319952

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 196.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SW (NW)	125	4	524093 320185
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	130	4	524192 319767
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 201.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	136	4	524191 319759
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	149	4	525018 320072
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	152	4	524129 319808
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A7NW (SW)	152	4	524129 319808
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 259.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	153	4	525018 320078
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	153	4	525057 319934
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	166	4	524115 319803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 299.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A7NW (SW)	177	4	524133 319762
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	188	4	525090 319920
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	192	4	525100 319980
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	192	4	525100 319980
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (S)	192	4	524388 319553
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	196	4	525098 319917
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (S)	214	4	524366 319539
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	218	4	525125 320027
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	218	4	525126 319979

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	229	4	525125 320045
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	240	4	525149 319980
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 150.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	249	4	525158 320025
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 191.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	249	4	525158 319979
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	251	4	525117 320110
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	264	4	525172 320024
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 212.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	266	4	525049 320199
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	266	4	524551 320450
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	267	4	525174 319937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (S)	279	4	524207 319558
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A8NE (E)	280	4	525188 319946
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 168.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	282	4	524459 320515
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (S)	284	4	524205 319553
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	286	4	524333 320551
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	288	4	524325 320552
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 377.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (W)	291	4	523909 319988
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	292	4	524494 320505
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 143.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	292	4	524494 320505

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 170.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NW (NE)	292	4	524675 320420
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	293	4	525185 319871
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 404.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	295	4	524468 320520
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 234.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11SW (W)	295	4	523900 320149
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 683.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SE (S)	298	4	524354 319450
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (W)	299	4	523911 319955
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	305	4	524562 320487
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NW (N)	313	4	524154 320532
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 251.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	322	4	525155 320179

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A12SE (E)	323	4	525174 320155
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 244.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	325	4	524435 320568
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	334	4	525162 320189
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NW (NE)	334	4	524842 320385
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	335	4	525192 319791
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 472.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NW (NW)	338	4	524085 320510
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 211.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (S)	338	4	524138 319534
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NW (NE)	338	4	524850 320383
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 738.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A11NW (N)	341	4	524102 320529

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A12SE (E)	343	4	525169 320194
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	343	4	525168 320196
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 191.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8NE (E)	347	4	525197 319777
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (E)	348	4	525167 320204
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	371	4	524916 320374
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 257.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (SE)	373	4	524960 319540
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	373	4	524921 320375
155	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A8NE (E)	376	4	525219 319757
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12SE (NE)	381	4	525047 320326

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	383	4	524348 320647
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	383	4	524348 320647
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A7SW (S)	384	4	524160 319464
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NE (N)	398	4	524355 320661
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7NW (SW)	398	4	523932 319660
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	407	4	524359 320670
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 464.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	408	4	524633 320591
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 295.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A7SW (S)	413	4	524163 319428
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 398.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A11NW (N)	415	4	524084 320607

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	415	4	524979 320394
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	423	4	524990 320398
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 254.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	431	4	524654 320605
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	432	4	524876 320481
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 279.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	432	4	524876 320481
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (SE)	433	4	525009 319501
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (SE)	433	4	525009 319501
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (NE)	433	4	524576 320623
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NW (N)	436	4	524553 320637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	438	4	525009 320406
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	440	4	524286 320703
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	442	4	524284 320706
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	450	4	524506 320674
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 542.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NE)	452	4	525184 320371
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (SE)	455	4	525008 319473
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	459	4	524478 320695
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	460	4	524479 320695
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 229.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A8SE (SE)	465	4	525007 319460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 40.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	481	4	524323 320746
185	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	491	4	525083 320430
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	496	4	524397 320755
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	498	4	525093 320433
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1869.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A6NE (W)	512	4	523711 319869
189	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	519	4	525121 320443
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Welland Primacy: 2	A12NE (NE)	527	4	525130 320448
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A7SW (SW)	536	4	523956 319430
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7054.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Catchment Name: Welland Primacy: 1	A6NE (W)	554	4	523668 319873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 762.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	562	4	524269 319200
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 210.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	566	4	524528 320790
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	570	4	525062 320530
196	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	570	4	525093 320512
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: Underground Permanent: True Watercourse Name: Exeter Drain Catchment Name: Welland Primacy: 2	A12NE (NE)	570	4	525124 320498
198	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NE)	571	4	525212 320454
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	572	4	525061 320529
200	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	573	4	525062 320530
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 658.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Exeter Drain Catchment Name: Welland Primacy: 2	A12NE (NE)	579	4	525146 320499

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202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 196.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SW (N)	585	4	524092 320804
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 551.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	588	4	525048 320553
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SW (N)	612	4	524561 320827
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 383.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A12NE (NE)	627	4	525161 320544
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 274.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4NE (SE)	645	4	525001 319230
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 246.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4NE (SE)	645	4	525001 319230
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 541.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A6NE (W)	654	4	523569 319857
209	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: Underground Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A6NE (W)	654	4	523569 319857
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 556.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A6NE (W)	655	4	523571 319843

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 59.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15SE (N)	659	4	524356 320922
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A3NW (S)	662	4	524176 319134
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	666	4	523544 319918
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	666	4	523551 319882
215	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	666	4	523556 319857
216	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	668	4	523564 319817
217	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 243.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	668	4	523561 319828
218	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 141.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	668	4	523538 319948
219	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NE (W)	668	4	523563 319823

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
220	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1309.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: New River Catchment Name: Welland Primacy: 2	A3NW (S)	670	4	524179 319123
221	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	685	4	523507 320092
222	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A6SE (SW)	686	4	523824 319349
223	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	686	4	524387 319040
224	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 416.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	687	4	524388 319039
225	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 424.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	687	4	524388 319039
226	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 53.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A6SE (SW)	688	4	523825 319346
227	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 205.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6SE (SW)	698	4	523605 319627
228	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SW (N)	701	4	524625 320896

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229	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 295.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SW (N)	703	4	524606 320906
230	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SW (N)	716	4	524600 320923
231	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: Underground Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A2NE (SW)	718	4	523836 319294
232	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	719	4	523480 320211
233	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15NE (N)	748	4	524341 321012
234	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 275.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A2NE (SW)	750	4	523848 319239
235	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 187.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NW (S)	765	4	524212 319005
236	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 228.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6SE (SW)	767	4	523651 319418
237	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6SE (SW)	772	4	523651 319410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
238	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	777	4	524232 318986
239	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NE (S)	778	4	524237 318983
240	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 359.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	779	4	524525 318939
241	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	789	4	524258 318965
242	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	789	4	524258 318965
243	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: Underground Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A10NW (NW)	790	4	523453 320387
244	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 123.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A10NW (NW)	793	4	523452 320393
245	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 535.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A4SW (SE)	801	4	524786 318953
246	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	801	4	524288 318943

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 277.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	803	4	524292 318941
248	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A2NE (SW)	811	4	523687 319308
249	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A2NE (SW)	811	4	523687 319308
250	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 635.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16SW (NE)	815	4	524842 320938
251	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 264.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	820	4	524325 318916
252	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 544.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (SE)	822	4	524778 318930
253	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A2NE (SW)	822	4	523674 319307
254	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	827	4	524344 318904
255	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 542.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	828	4	524348 318903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
256	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	830	4	523378 320271
257	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3NW (S)	830	4	524024 319026
258	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A2NE (SW)	831	4	523665 319303
259	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 192.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A2NE (SW)	839	4	523657 319300
260	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 639.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A10NW (NW)	841	4	523456 320519
261	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A10NW (NW)	842	4	523453 320513
262	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (SE)	847	4	524769 318901
263	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 484.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (S)	848	4	524601 318875
264	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 98.8 Watercourse Level: Underground Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A2NE (SW)	850	4	523703 319237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
265	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16NW (N)	850	4	524664 321041
266	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 250.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A16NW (N)	853	4	524665 321043
267	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 700.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (S)	856	4	524606 318868
268	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	862	4	523330 320125
269	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	866	4	523334 320224
270	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 343.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (S)	867	4	524762 318880
271	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (S)	867	4	524762 318880
272	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 262.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SE (SE)	874	4	524992 318956
273	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 280.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	884	4	523309 320140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
274	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 262.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	885	4	523305 320025
275	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 562.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	887	4	524448 318831
276	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15NE (N)	892	4	524386 321154
277	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NW (W)	893	4	523322 319870
278	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NW (W)	897	4	523304 319973
279	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NW (W)	897	4	523321 319856
280	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 348.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SE (S)	903	4	524473 318815
281	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1051.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Soke Dyke Catchment Name: Welland Primacy: 2	A2NE (SW)	905	4	523725 319141
282	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A6NW (W)	909	4	523319 319806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
283	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A3SW (S)	912	4	524098 318895
284	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: Underground Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A3SW (S)	938	4	523906 318970
285	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 188.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15NE (N)	941	4	524465 321194
286	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A15NE (N)	941	4	524465 321194
287	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 692.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fantail Mill Drain Catchment Name: Welland Primacy: 2	A6NW (W)	944	4	523326 319656
288	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 442.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Soke Dyke Catchment Name: Welland Primacy: 2	A3SW (S)	947	4	523909 318958
289	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 282.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A4SW (S)	962	4	524557 318757
290	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 581.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Welland Catchment Name: Welland Primacy: 1	A15NE (N)	968	4	524252 321231
291	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fantail Mill Drain Catchment Name: Welland Primacy: 2	A6SW (SW)	983	4	523433 319354

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
292	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 424.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Railway Delph Drain Catchment Name: Welland Primacy: 2	A14SW (NW)	985	4	523392 320683
293	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	A10SW (W)	994	4	523220 320317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	2	524300 319996
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	5	524300 319996
294	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A10NW (NW)	786	-	523445 320353
295	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A11NE (NE)	269	-	524534 320460
296	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A12SE (E)	291	-	525088 320200
297	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A12NW (NE)	299	-	524688 320423
298	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A12SE (E)	334	-	525171 320177
299	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A14SE (NW)	888	-	523575 320752
300	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A14NE (NW)	945	-	523838 321078
301	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A6SW (SW)	966	-	523377 319482
302	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A6SW (SW)	973	-	523409 319410
303	**Registered Waste Transfer Sites** Licence Holder: D A Boswell Licence Reference: L100 Site Location: The Ranch Scrapyard, Clay Lake, SPALDING, Lincolnshire, PE12 6BL Operator Location: As Site Address Authority: Environment Agency - Anglian Region, Northern Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 17th July 1989 Preceded By Licence: Not Given Superseded By Licence: L100/S042 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate Authorised Waste: Lincs Cat. A -Solid Inert * Lincs Cat. B -Solid Semiinert*	A16SE (NE)	910	1	525202 320837

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Kellaways Formation And Oxford Clay Formation (Undifferentiated)	A11SE (SE)	0	6	524300 319996
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (SE)	0	6	524300 319996
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A3NE (S)	717	6	524300 319000
304	**BGS Recorded Mineral Sites** Site Name: Little London Brick Field Location: Spalding, Lincolnshire Source: British Geological Survey, National Geoscience Information Service Reference: 136288 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Tidal Flat Deposits Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	862	6	523396 320440
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	91	6	525000 319996
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	96	6	525000 320000
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	6	524300 319996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	6	524300 320001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
305	**Contemporary Trade Directory Entries** Name: D & G Surfacing Location: 64, Fen End Lane, SPALDING, Lincolnshire, PE12 6AD Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (NW)	19	-	524240 320138
306	**Contemporary Trade Directory Entries** Name: Steel Fabrications Location: Burr Lane, Spalding, Lincolnshire, PE12 6AZ Classification: Staircase, Balustrade & Handrail Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NE)	358	-	524984 320330
306	**Contemporary Trade Directory Entries** Name: G H Whitwell Location: Burr Lane, Spalding, Lincolnshire, PE12 6AZ Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NE)	358	-	524984 320330
307	**Contemporary Trade Directory Entries** Name: W & W H Pettit Location: Cowbit Road, Spalding, Lincolnshire, PE12 6AB Classification: Agricultural Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (N)	404	-	524225 320658
307	**Contemporary Trade Directory Entries** Name: W & W H Pettit Location: Cowbit Road, Spalding, Lincolnshire, PE12 6AB Classification: Blast Cleaning **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NE (N)	404	-	524225 320658
308	**Contemporary Trade Directory Entries** Name: Denichi Activewear Location: Elmtree House, Cowbit Road, Spalding, Lincolnshire, PE12 6AA Classification: Sportswear - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	506	-	524198 320757
309	**Contemporary Trade Directory Entries** Name: A H Lewis Location: 50, Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	824	-	523922 320988
310	**Contemporary Trade Directory Entries** Name: Freshco (Spalding) Ltd Location: Spalding Common, Spalding, Lincolnshire, PE11 3JZ Classification: Frozen Food Processors & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6NW (W)	846	-	523355 319971
311	**Contemporary Trade Directory Entries** Name: Buildbase Ltd Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AZ Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A15NW (N)	869	-	524093 321104
312	**Contemporary Trade Directory Entries** Name: Wades Cleaning Services Location: 137, Cradge Bank, Spalding, Lincolnshire, PE11 3AF Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (NW)	873	-	523539 320689
313	**Contemporary Trade Directory Entries** Name: Paul Cooper Location: 113, Cradge Bank, Spalding, Lincolnshire, PE11 3AF Classification: Gas - Industrial & Medical Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (NW)	875	-	523639 320815
314	**Contemporary Trade Directory Entries** Name: Excel Refinishing Ltd Location: 73 Cradge Bank, Spalding, Lincolnshire, PE11 3AF Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14SE (NW)	884	-	523701 320898

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
314	**Contemporary Trade Directory Entries** Name: Gaunts Location: 63b, Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Car Radiator Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (NW)	885	-	523746 320940
314	**Contemporary Trade Directory Entries** Name: Lafarge Readymix Location: 67, Cradge Bank, Spalding, Lincolnshire, PE11 3AF Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (NW)	886	-	523727 320925
315	**Contemporary Trade Directory Entries** Name: A Burnett Motor Engineer Location: 71, Cradge Bank, Spalding, Lincolnshire, PE11 3AF Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A15NW (N)	893	-	523880 321044
316	**Contemporary Trade Directory Entries** Name: Anna'S Ironing Location: 9, Sandown Close, SPALDING, Lincolnshire, PE11 3BU Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	895	-	523456 320618
316	**Contemporary Trade Directory Entries** Name: Annas Location: 9, Sandown Close, Spalding, Lincolnshire, PE11 3BU Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	895	-	523456 320618
316	**Contemporary Trade Directory Entries** Name: B W Cleaning Location: 64, Aintree Drive, Spalding, Lincolnshire, PE11 3BS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	899	-	523478 320654
316	**Contemporary Trade Directory Entries** Name: B W Cleaning Contractors Location: 64, Aintree Drive, Spalding, Lincolnshire, PE11 3BS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	899	-	523478 320654
317	**Contemporary Trade Directory Entries** Name: Rose Blinds Location: Crossways, The Ramper, Spalding, Lincolnshire, PE11 3AW Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	912	-	523396 320554
318	**Contemporary Trade Directory Entries** Name: Motor Repairs Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	914	-	524168 321167
318	**Contemporary Trade Directory Entries** Name: 4 W D Services Location: 8a, River Bank, Spalding, PE11 3AA Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A15NW (N)	951	-	524186 321207
319	**Contemporary Trade Directory Entries** Name: Lafarge Aggregates Ltd Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15NW (N)	916	-	524018 321130
319	**Contemporary Trade Directory Entries** Name: Lafarge Readymix Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15NW (N)	939	-	524079 321173

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
319	**Contemporary Trade Directory Entries** Name: Lafarge Aggregates Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Concrete Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15NW (N)	939	-	524079 321173
319	**Contemporary Trade Directory Entries** Name: Rooke Agencies Pet & Animal Feeds Ltd Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Pet Foods & Animal Feeds **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	949	-	524036 321171
320	**Contemporary Trade Directory Entries** Name: South Lincs Foundry Location: Ivanhoe, Spalding Common, Spalding, Lincolnshire, PE11 3AS Classification: Foundries **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NW (W)	942	-	523299 320407
321	**Contemporary Trade Directory Entries** Name: Buildbase Ltd Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A15NW (N)	952	-	524099 321191
321	**Contemporary Trade Directory Entries** Name: Breedon Aggregates Location: Cradge Bank, Spalding, Lincolnshire, PE11 3AB Classification: Sand, Gravel & Other Aggregates **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A15NW (N)	953	-	524100 321192
322	**Contemporary Trade Directory Entries** Name: Rooke'S Pet Products Ltd Location: 1, CRADGE BANK, SPALDING, PE11 3AB Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A15NE (N)	996	-	524227 321257
323	**Contemporary Trade Directory Entries** Name: T K Autos Location: 1, Stennett Avenue, SPALDING, Lincolnshire, PE11 3AX Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A6SW (SW)	1000	-	523347 319467
324	**Fuel Station Entries** Name: Applegreen Spalding Location: 2, Goodison Road A16, Cowbit Lincs Gateway, Spalding, Lincolnshire, PE12 6FY Brand: Applegreen Premises Type: Service Area **Status: Open** Positional Accuracy: Manually positioned to the address or location	A7NE (S)	59	-	524349 319729
325	**Points of Interest - Commercial Services** Name: G H Whitwell Location: Burr Lane, Spalding, PE12 6AZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NE)	358	7	524984 320330
326	**Points of Interest - Commercial Services** Name: Gaunts Location: 63b Cradge Bank, Spalding, PE11 3AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	884	7	523931 321059
326	**Points of Interest - Commercial Services** Name: Gaunt Motor Cool Services Location: 63b Cradge Bank, Spalding, PE11 3AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	884	7	523931 321059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	**Points of Interest - Commercial Services** Name: A Burnett Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	893	7	523880 321044
326	**Points of Interest - Commercial Services** Name: Spalding Windscreen Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	893	7	523880 321044
326	**Points of Interest - Commercial Services** Name: Huggins National Windscreens Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	893	7	523880 321044
326	**Points of Interest - Commercial Services** Name: National Windscreens Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (N)	902	7	523875 321050
326	**Points of Interest - Commercial Services** Name: A Burnett Motor Engineer Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (N)	902	7	523875 321050
327	**Points of Interest - Commercial Services** Name: Excel Refinishing Ltd Location: 73 Cradge Bank, Spalding, Lincolnshire, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (NW)	884	7	523701 320898
327	**Points of Interest - Commercial Services** Name: Excel Refinishing Location: 73 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (NW)	884	7	523701 320898
327	**Points of Interest - Commercial Services** Name: Gaunts Location: 63b Cradge Bank, Spalding, PE11 3AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (NW)	885	7	523746 320940
327	**Points of Interest - Commercial Services** Name: National Windscreens Location: 71 Cradge Bank, Spalding, PE11 3AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (NW)	887	7	523709 320909
328	**Points of Interest - Commercial Services** Name: Motor Repairs Location: Cradge Bank, Spalding, PE11 3AB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	914	7	524168 321167
328	**Points of Interest - Commercial Services** Name: 4 W D Services Location: 8 River Bank, Spalding, PE11 3AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	951	7	524187 321207
328	**Points of Interest - Commercial Services** Name: 4 W D Services Location: 8 River Bank, Spalding, PE11 3AA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (N)	952	7	524188 321208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
329	**Points of Interest - Manufacturing and Production** Name: Business Park Location: PE12 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (S)	128	7	524268 319700
330	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (N)	270	7	524313 320535
331	**Points of Interest - Manufacturing and Production** Name: Tanks Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A11NE (N)	357	7	524280 320620
332	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (NE)	376	7	524949 320365
333	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NE)	405	7	525059 320347
333	**Points of Interest - Manufacturing and Production** Name: Works Location: PE12 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NE (NE)	407	7	525059 320349
334	**Points of Interest - Manufacturing and Production** Name: G M Johnson Location: Cowbit Road, Spalding, PE12 6AA Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A15SE (N)	718	7	524268 320981
334	**Points of Interest - Manufacturing and Production** Name: G M Johnson Location: Locks Farm, Cowbit Road, Spalding, PE12 6AA Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A15SE (N)	721	7	524270 320984
335	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A10SW (W)	757	7	523442 319998
335	**Points of Interest - Manufacturing and Production** Name: Tanks Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	758	7	523440 320006
335	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A10SW (W)	767	7	523432 319999
335	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A10SW (W)	771	7	523428 320002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
335	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10SW (W)	784	7	523414 320008
336	**Points of Interest - Manufacturing and Production** Name: Works Location: PE11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	830	7	524008 321035
336	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	833	7	524003 321036
336	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	876	7	524048 321098
337	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	863	7	524071 321092
337	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	893	7	524129 321138
338	**Points of Interest - Manufacturing and Production** Name: H Freeman & Sons Location: The Conifers, Spalding Common, Spalding, PE11 3AU Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A10SW (W)	910	7	523288 319998
339	**Points of Interest - Manufacturing and Production** Name: Business Park Location: PE11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	919	7	524010 321131
339	**Points of Interest - Manufacturing and Production** Name: Phoenix Business Centre Location: Unit 2 35, Little London, Spalding, PE11 2UE Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A15NW (N)	991	7	524017 321209
340	**Points of Interest - Manufacturing and Production** Name: Works Location: PE11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15NW (N)	928	7	523880 321083
341	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A10NW (W)	970	7	523258 320369
341	**Points of Interest - Manufacturing and Production** Name: Works Location: PE11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A10NW (W)	970	7	523258 320369

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
342	**Points of Interest - Public Infrastructure** Name: Applegreen Spalding Location: Goodison Road, Cowbit, Spalding, South Holland, Lincolnshire, PE12 6FY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7NE (S)	59	7	524349 319729
343	**Points of Interest - Public Infrastructure** Name: Sewage Pumping Station Location: PE11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A6NW (W)	907	7	523349 319706
343	**Points of Interest - Public Infrastructure** Name: Sewage Pumping Station Location: PE11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A6NW (W)	937	7	523317 319707
344	**Points of Interest - Public Infrastructure** Name: Sluice Location: PE12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A15NE (N)	915	7	524256 321178
344	**Points of Interest - Public Infrastructure** Name: Sluice Location: PE12 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A15NE (N)	923	7	524255 321186
345	**Points of Interest - Recreational and Environmental** Name: Play Area Location: PE11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SE (W)	998	7	523199 320207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
346	**Nitrate Vulnerable Zones** Name: River Welland Nvz Description: Surface Water Source: Environment Agency, Head Office	A11SE (SE)	0	3	524300 319996
347	**Nitrate Vulnerable Zones** Name: Vernatt'S Drain Nvz Description: Surface Water Source: Environment Agency, Head Office	A6NE (W)	605	3	523620 319852
348	**Sites of Special Scientific Interest** Name: Cowbit Wash Multiple Areas: N Total Area (m2): 90665.62 Source: Natural England Reference: 2000265 Designation Details: Geological Conservation Review Designation Date: 16th June 1999 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 16th June 1999 Date Type: Notified	A7SW (S)	420	8	524159 319422

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office South Holland District Council - Environmental Services	 June 2020 September 2017	 Annually Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	 January 2022	 Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	 March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region	 January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	 January 2022	 Quarterly
Local Authority Integrated Pollution Prevention And Control South Holland District Council - Environmental Services	 October 2014	 Variable
Local Authority Pollution Prevention and Controls South Holland District Council - Environmental Services	 October 2014	 Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Holland District Council - Environmental Services	 October 2014	 Variable
Nearest Surface Water Feature Ordnance Survey	 February 2022	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	 September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	 March 2013	
Registered Radioactive Substances Environment Agency - Anglian Region	 June 2016	 As notified
River Quality Environment Agency - Head Office	 November 2001	 Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	 April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	 April 2012	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	 January 2022	 Quarterly
Water Abstractions Environment Agency - Anglian Region	 January 2022	 Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	 October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	 June 2018	 As notified
Bedrock Aquifer Designations Environment Agency - Head Office	 January 2018	 Annually
Superficial Aquifer Designations Environment Agency - Head Office	 January 2018	 Annually
Source Protection Zones Environment Agency - Head Office	 May 2021	 Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	 February 2022	 Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	 February 2022	 Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2022	Quarterly
Flood Defences Environment Agency - Head Office	February 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	January 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	January 2022	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	January 2022	Quarterly
Local Authority Landfill Coverage Lincolnshire County Council South Holland District Council - Environmental Services	 February 2003 February 2003	 Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lincolnshire County Council South Holland District Council - Environmental Services	 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Lincolnshire County Council - Highways and Planning Department	August 2010	Variable
South Holland District Council	January 2016	Variable
Planning Hazardous Substance Consents		
Lincolnshire County Council - Highways and Planning Department	August 2007	Variable
South Holland District Council	January 2016	Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Data Currency

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

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

Data Suppliers

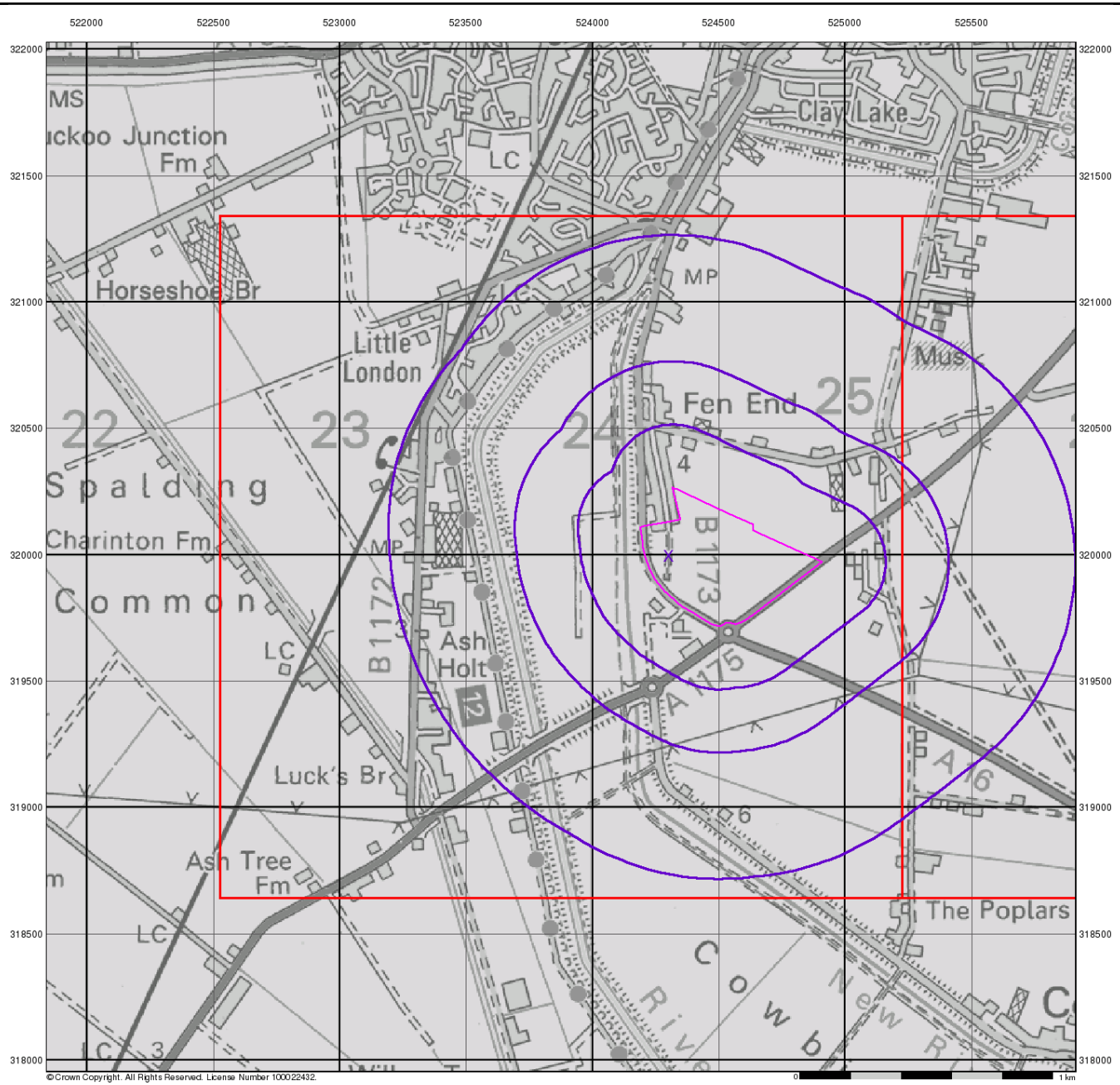
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
2	**South Holland District Council - Environmental Services** Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Website: www.sholland.gov.uk
3	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Lincolnshire County Council** 4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN	Telephone: 01522 552222 Fax: 01522 552288 Email: PublicRelations@lincolnshire.gov.uk Website: www.lincolnshire.gov.uk
6	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

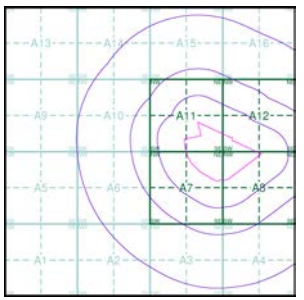
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

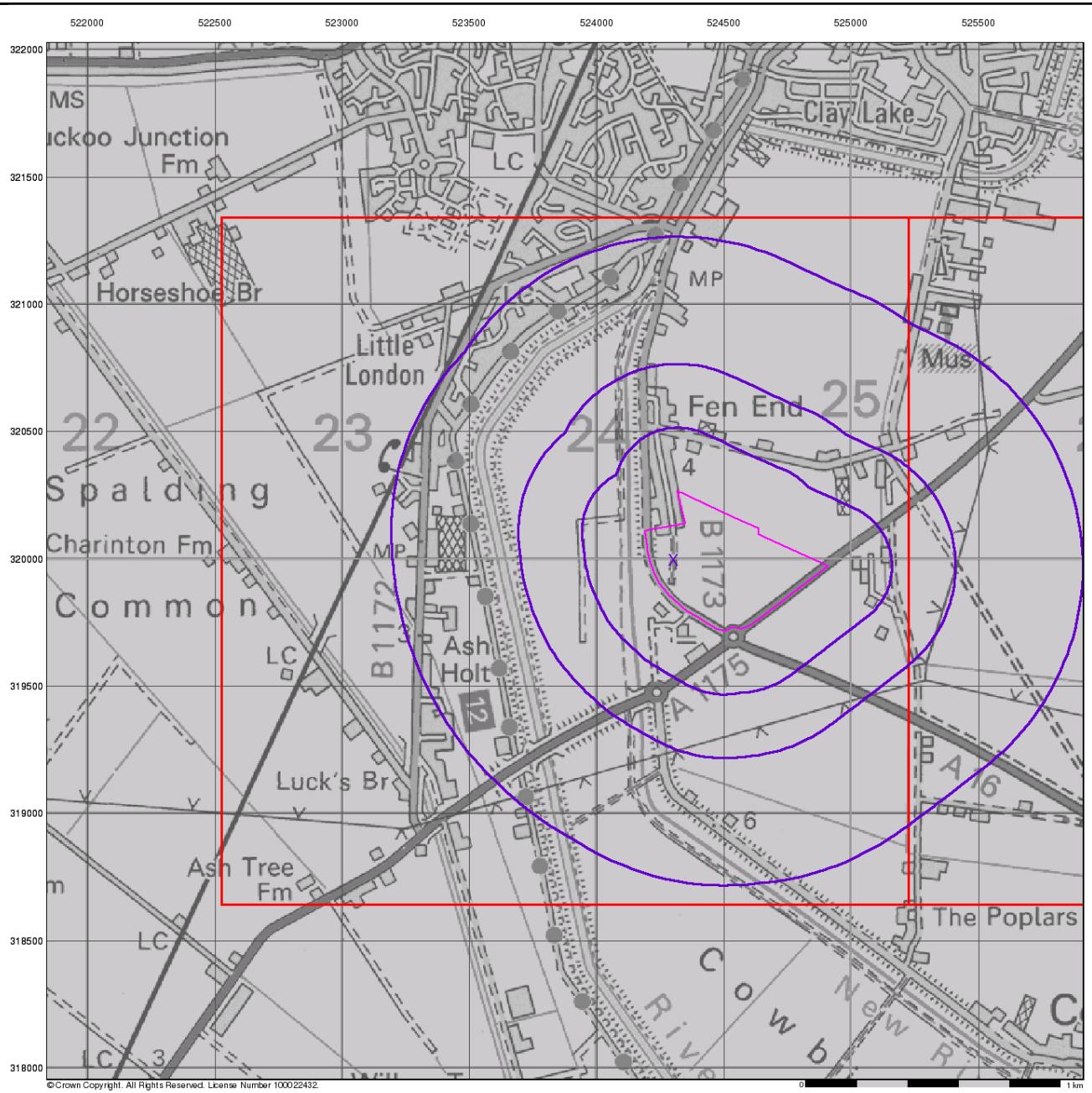
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Bedrock Aquifer Designation

General

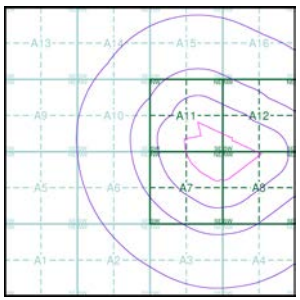
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

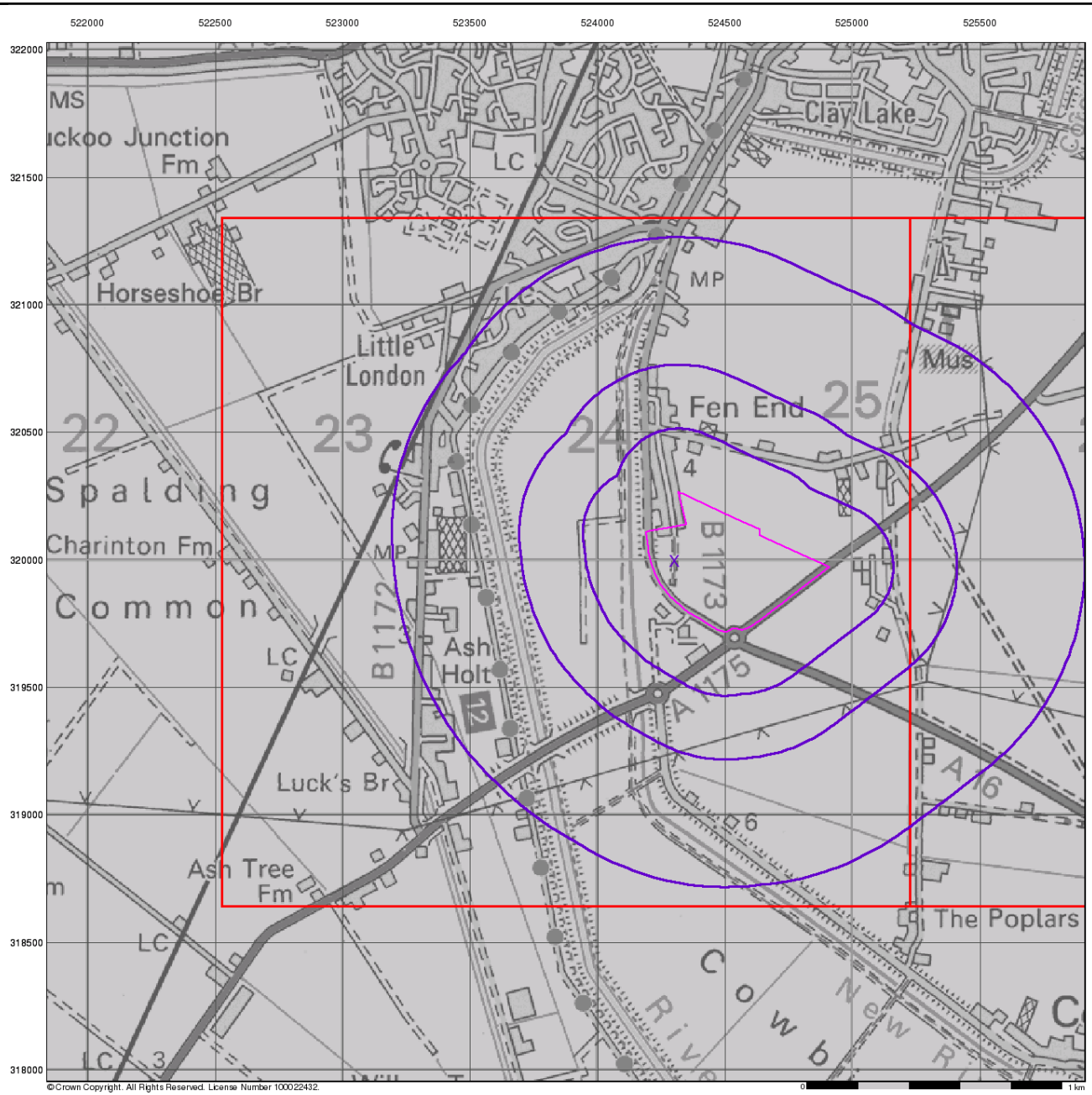
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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Superficial Aquifer Designation

General

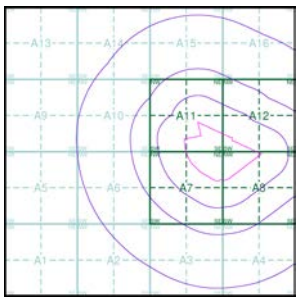
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

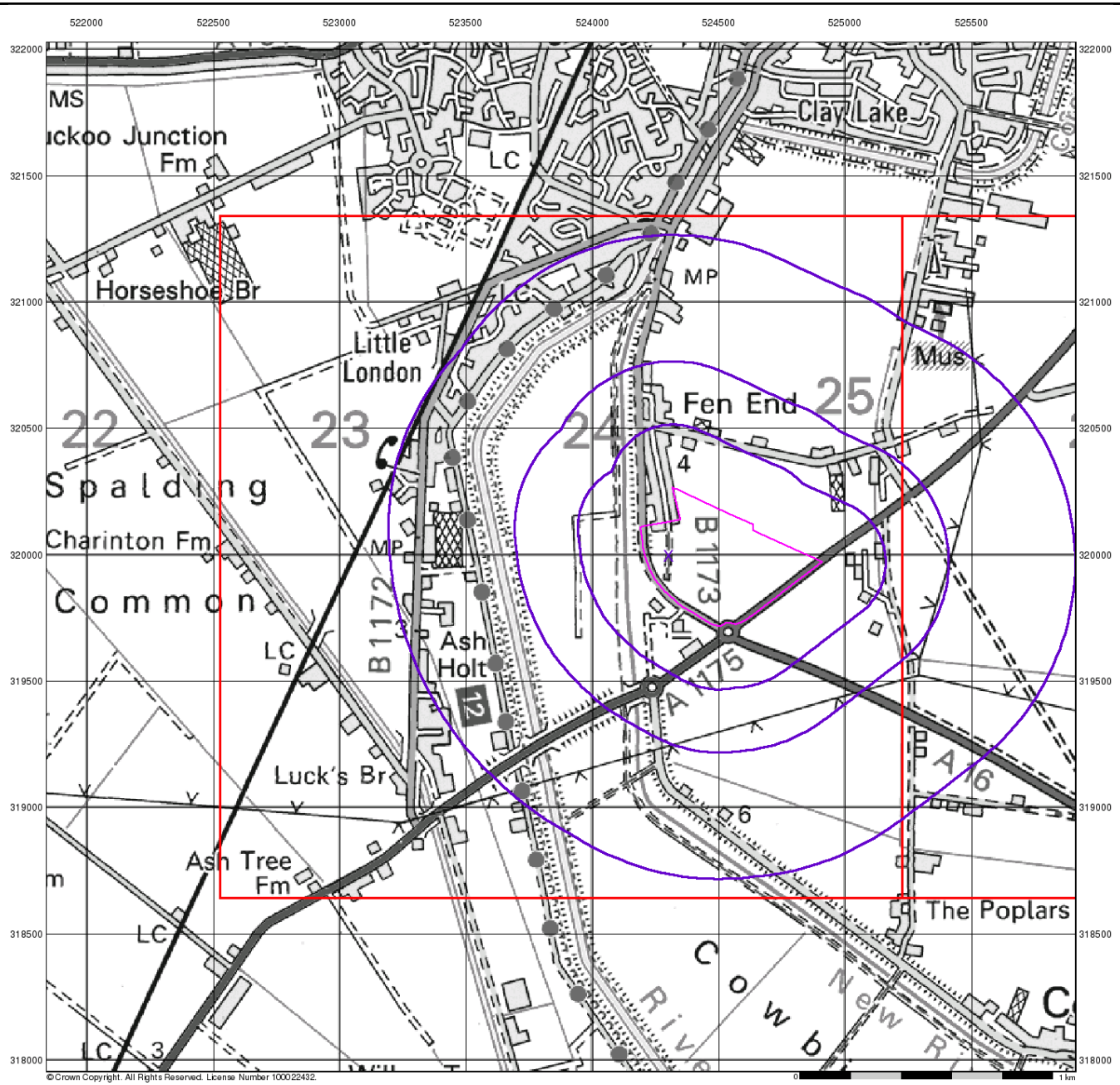
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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Source Protection Zones

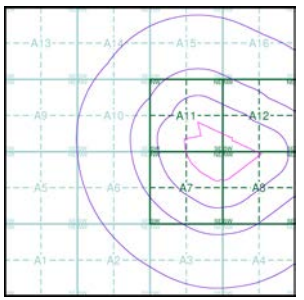
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

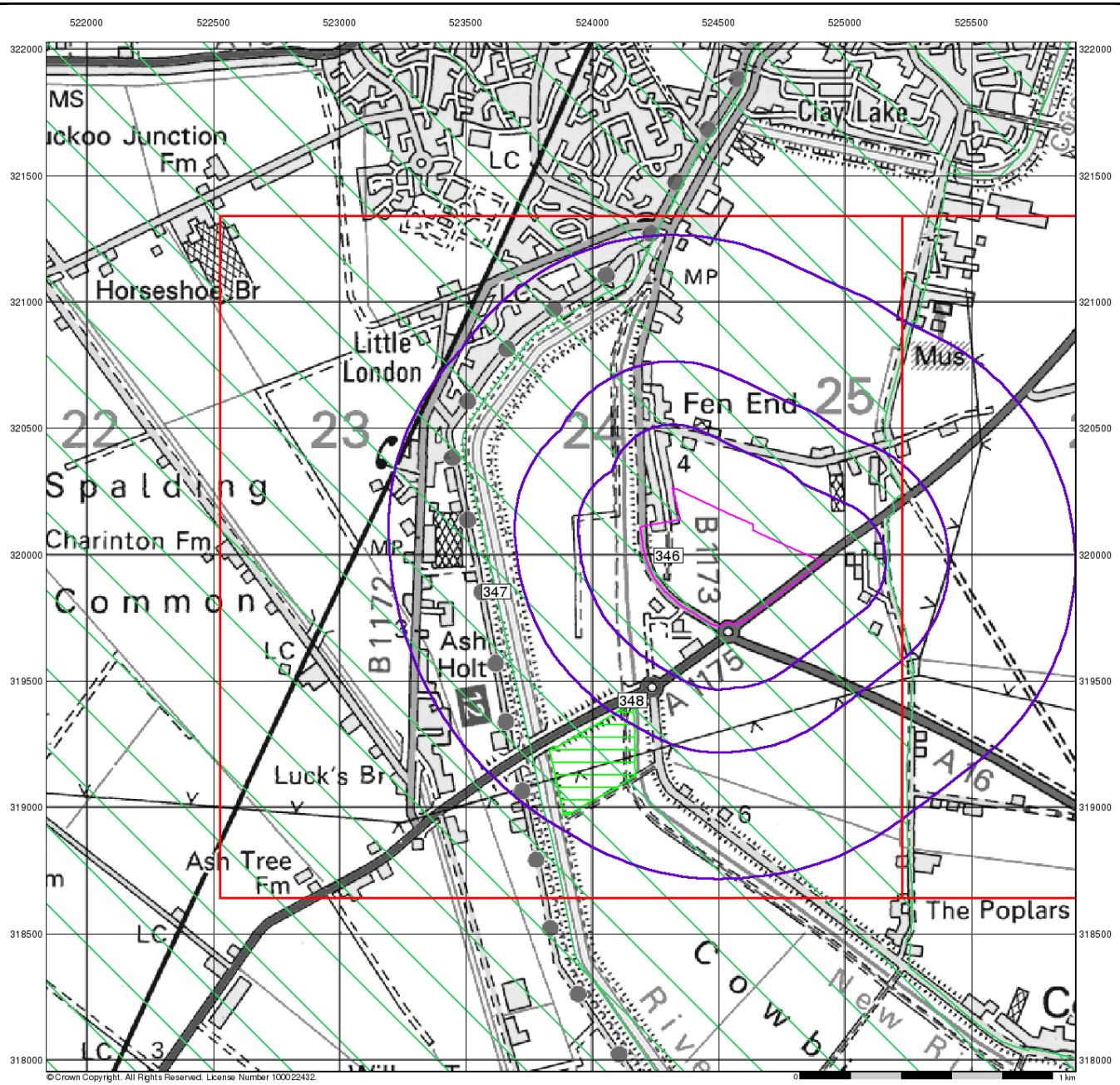
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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Sensitive Land Uses

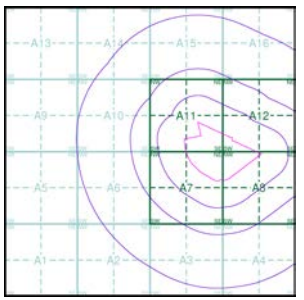
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



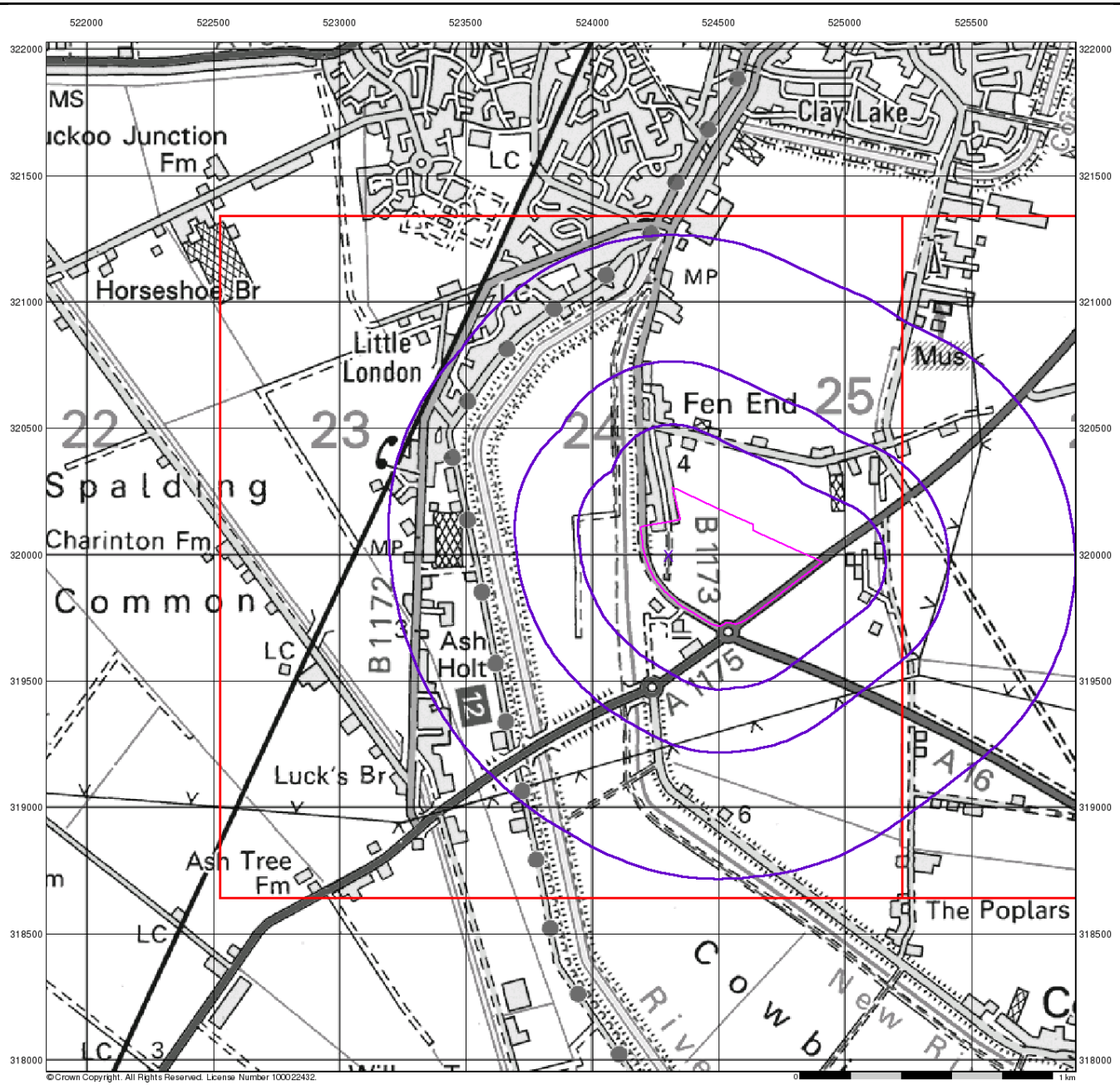
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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BGS Flood GFS Data

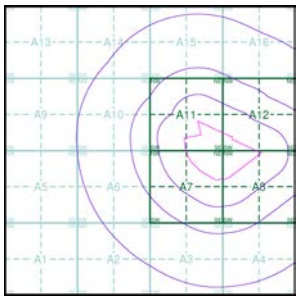
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

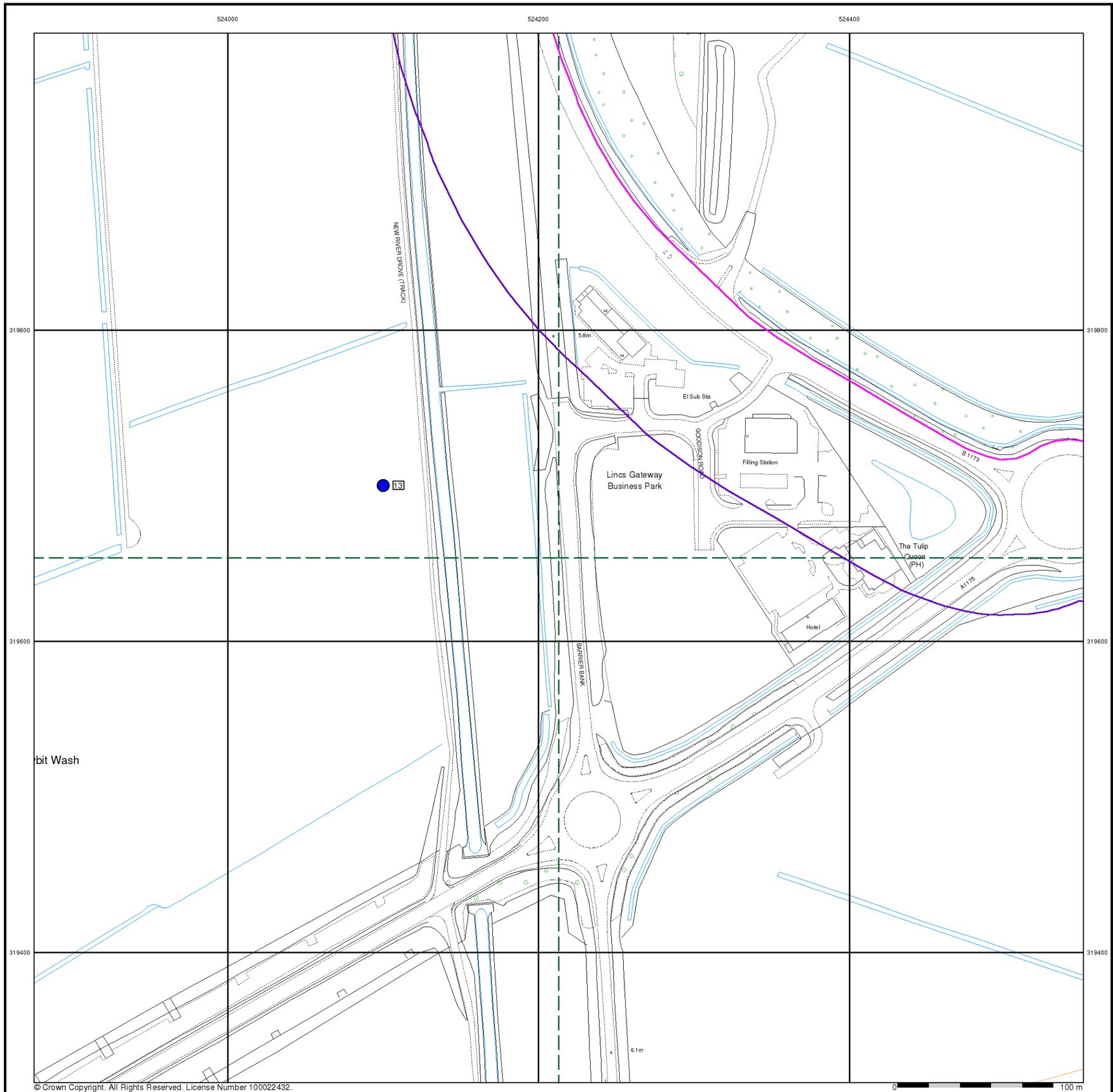
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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General

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

Agency and Hydrological

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

Hazardous Substances

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

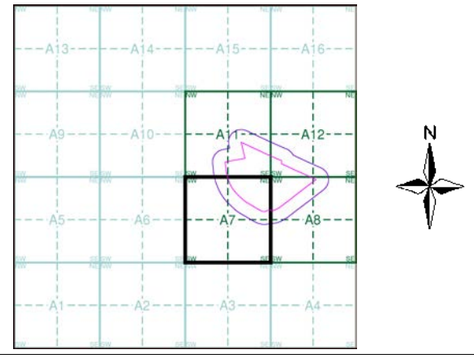
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A7



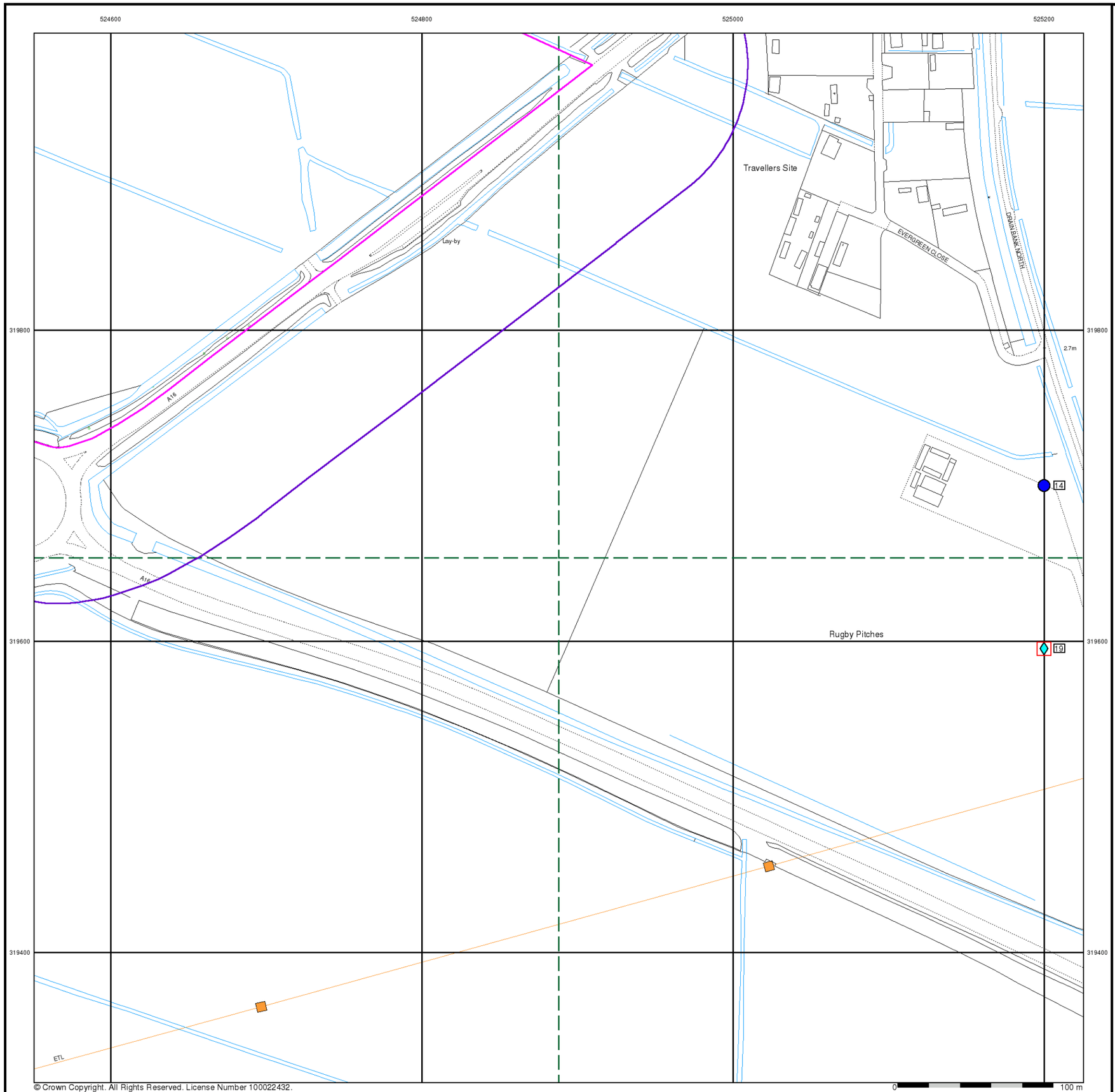
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Plot Buffer (m):	100

Site Details

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General

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

Agency and Hydrological

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

Hazardous Substances

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

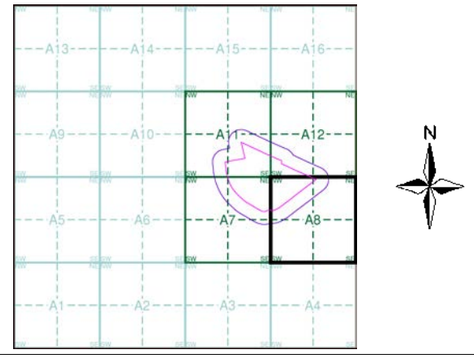
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A8



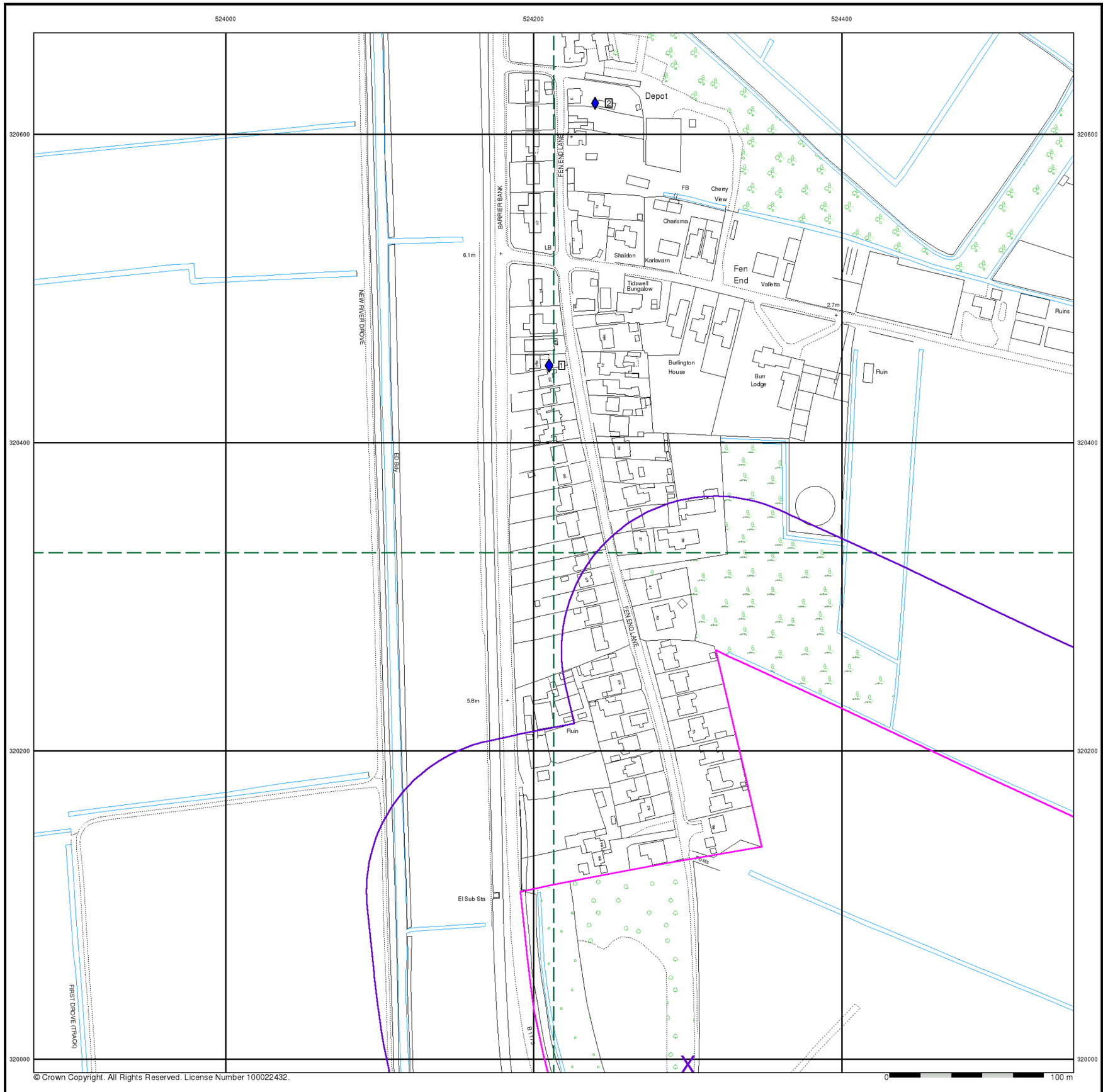
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Plot Buffer (m):	100

Site Details

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General

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

Agency and Hydrological

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

Hazardous Substances

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

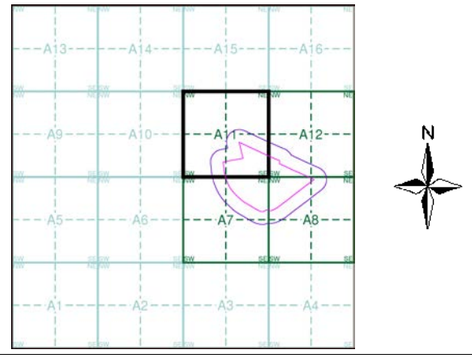
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A11



Order Details

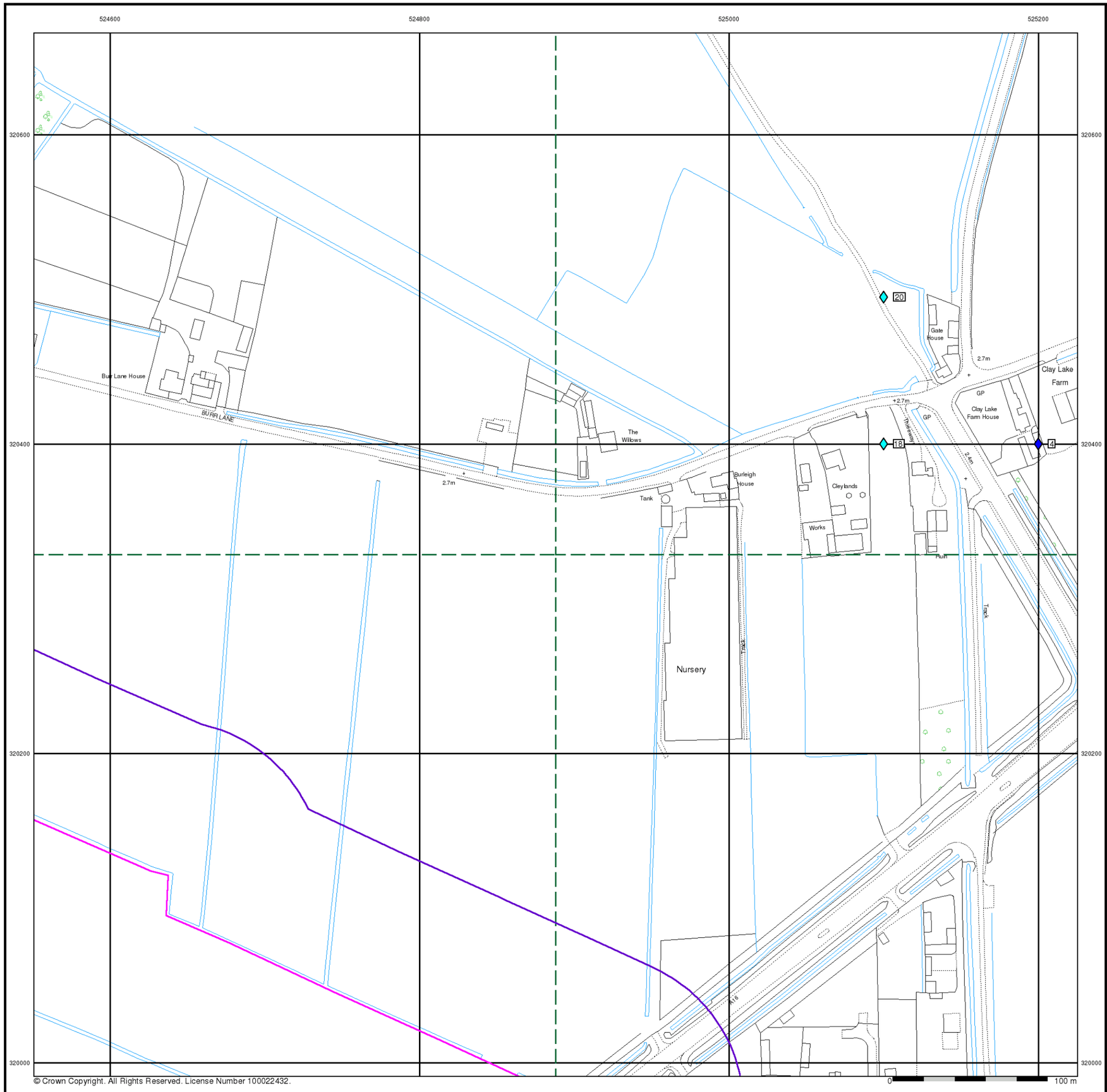
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Plot Buffer (m):	100

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General

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

Agency and Hydrological

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

Hazardous Substances

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

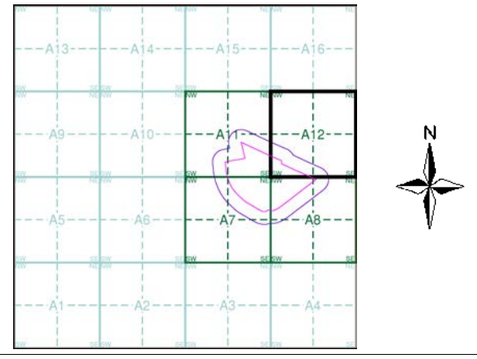
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A12



Order Details

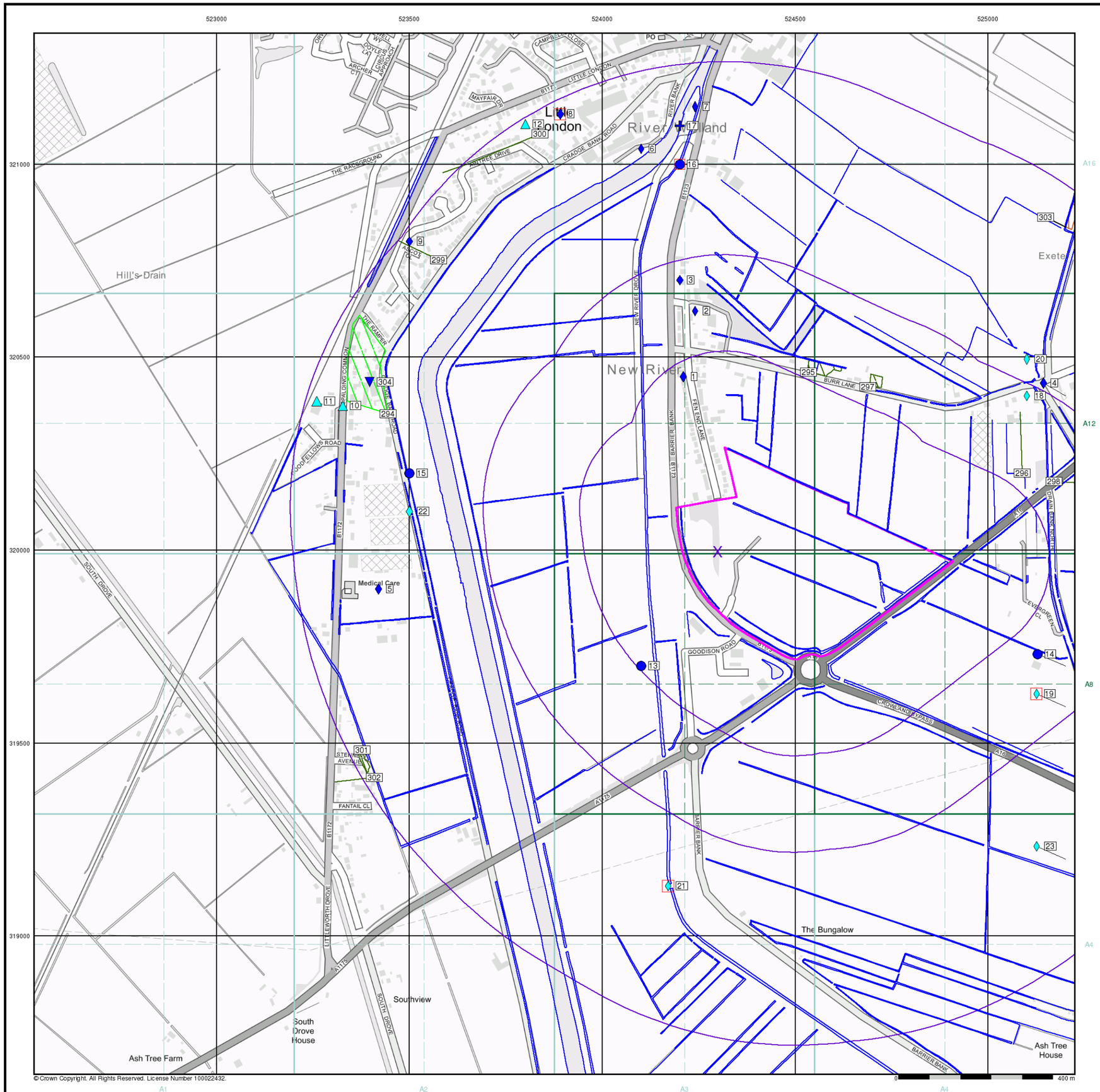
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Plot Buffer (m):	100

Site Details

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General

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

Several of Type at Location

Agency and Hydrological

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

Hazardous Substances

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

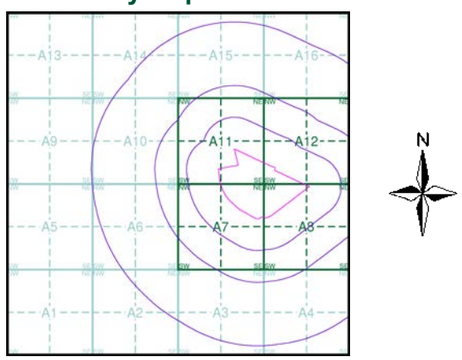
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A



Order Details

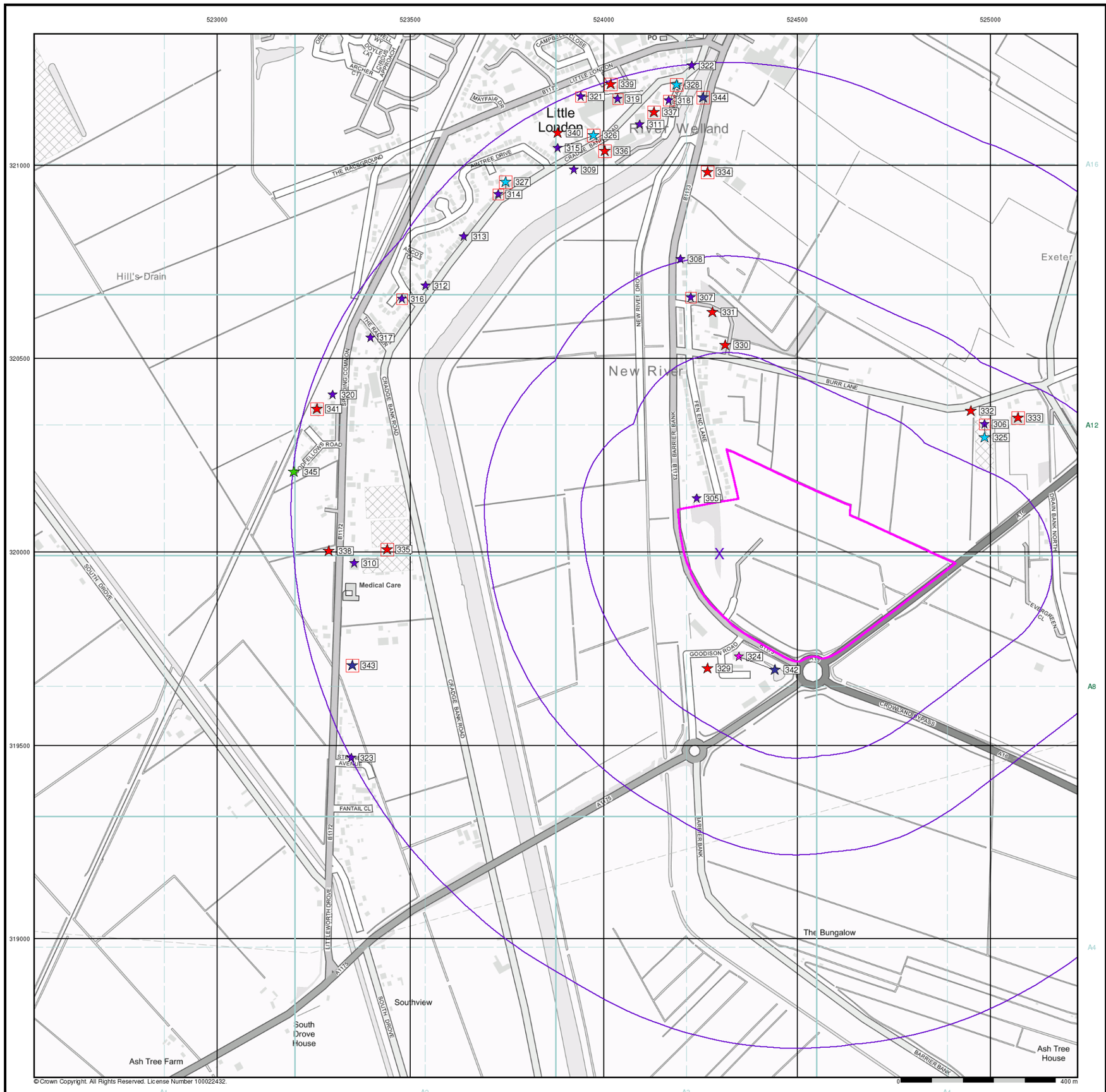
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Industrial Land Use Map

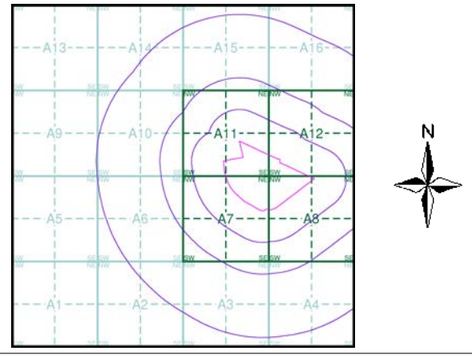
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



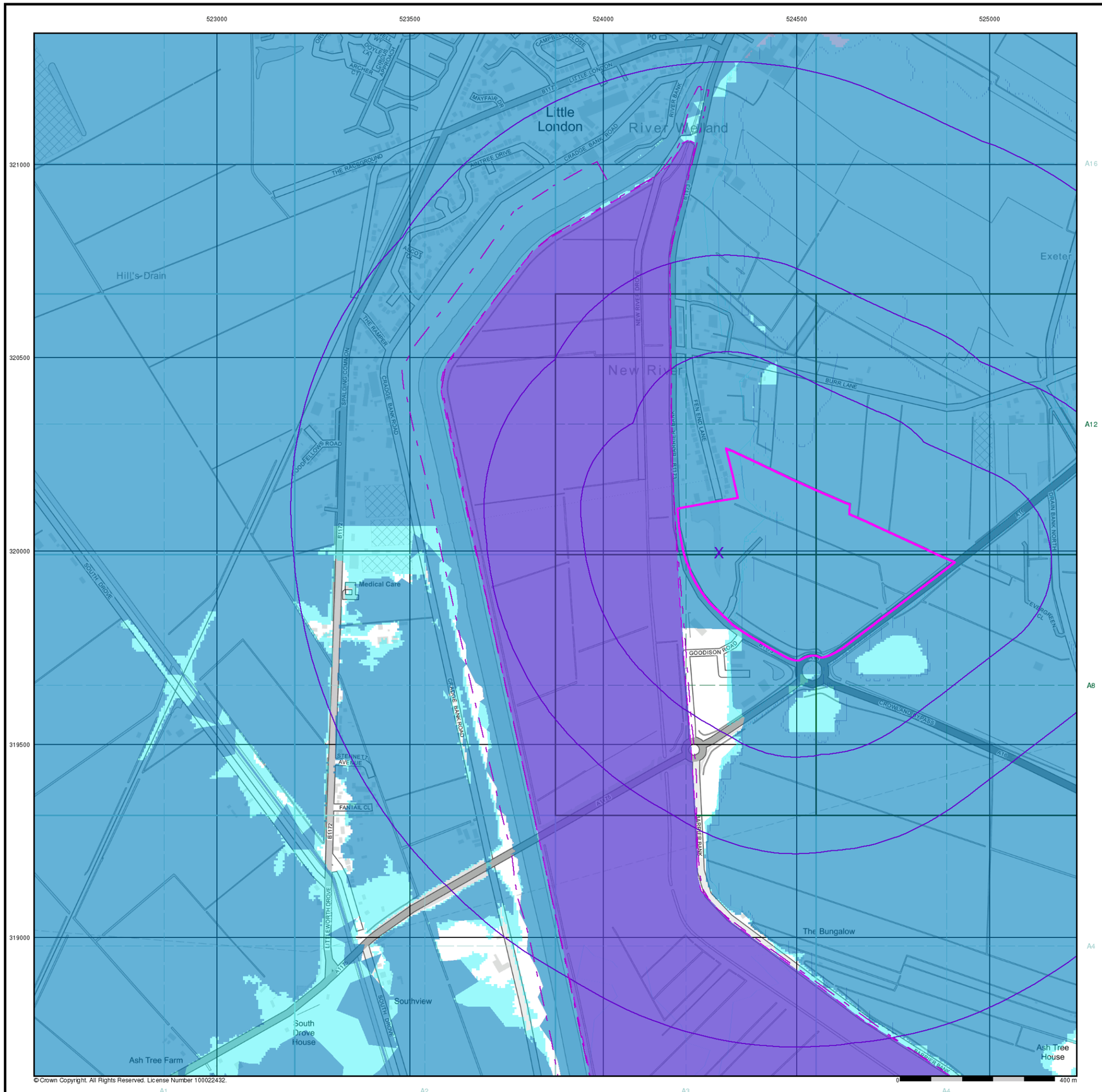
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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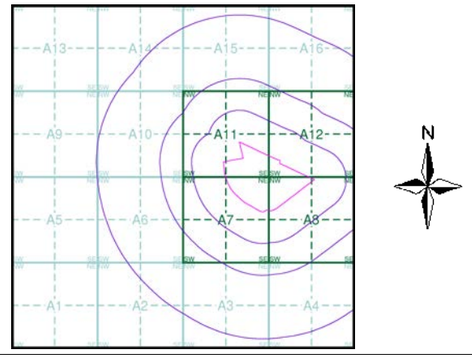
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

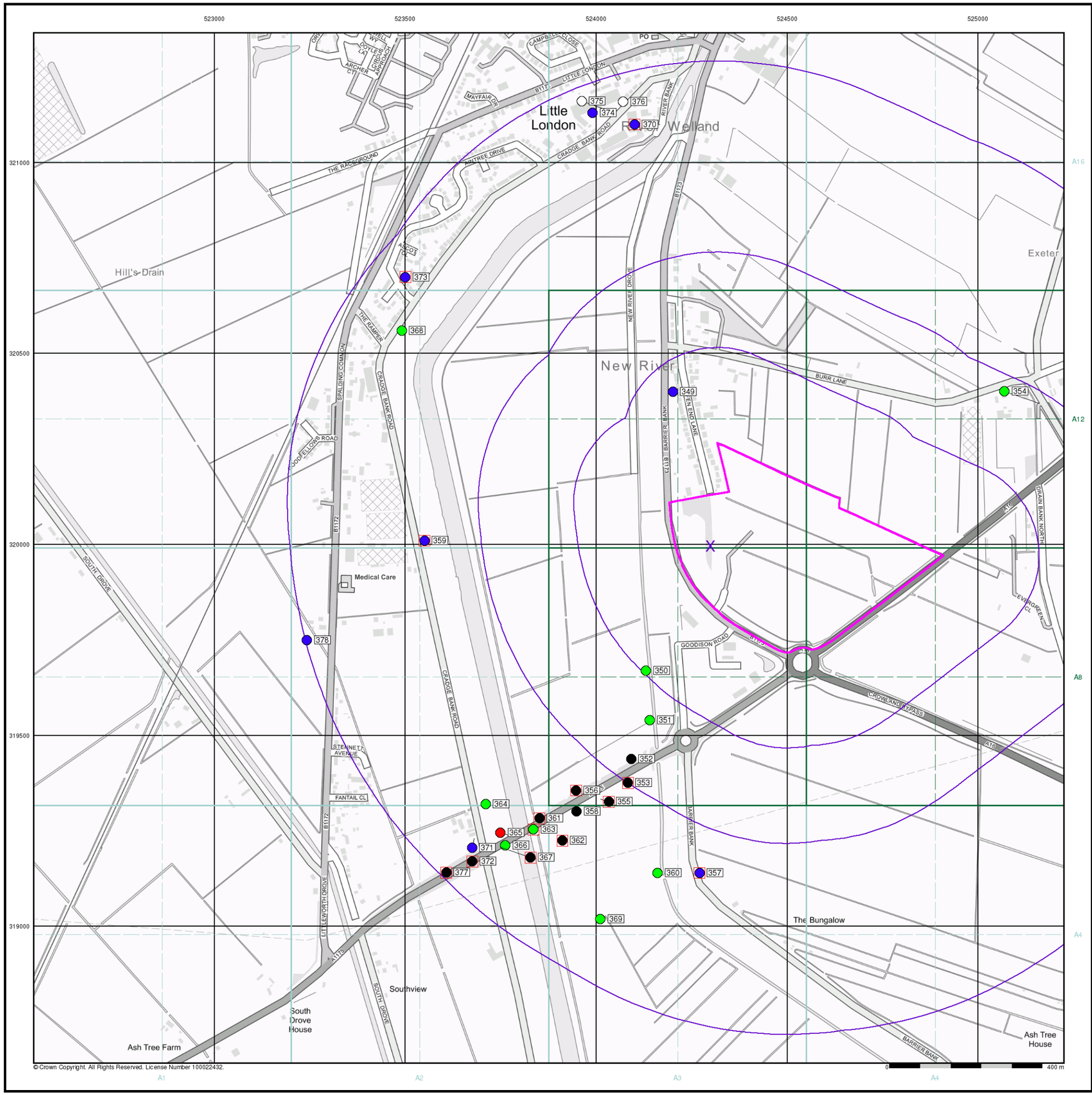
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Customer Ref:	46934
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Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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General

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

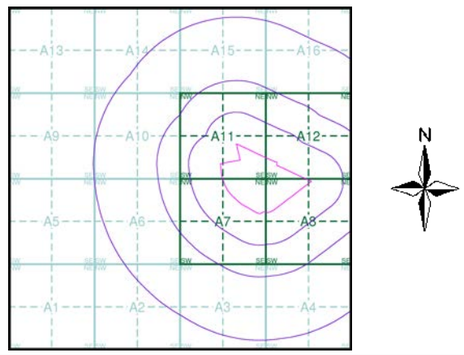
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

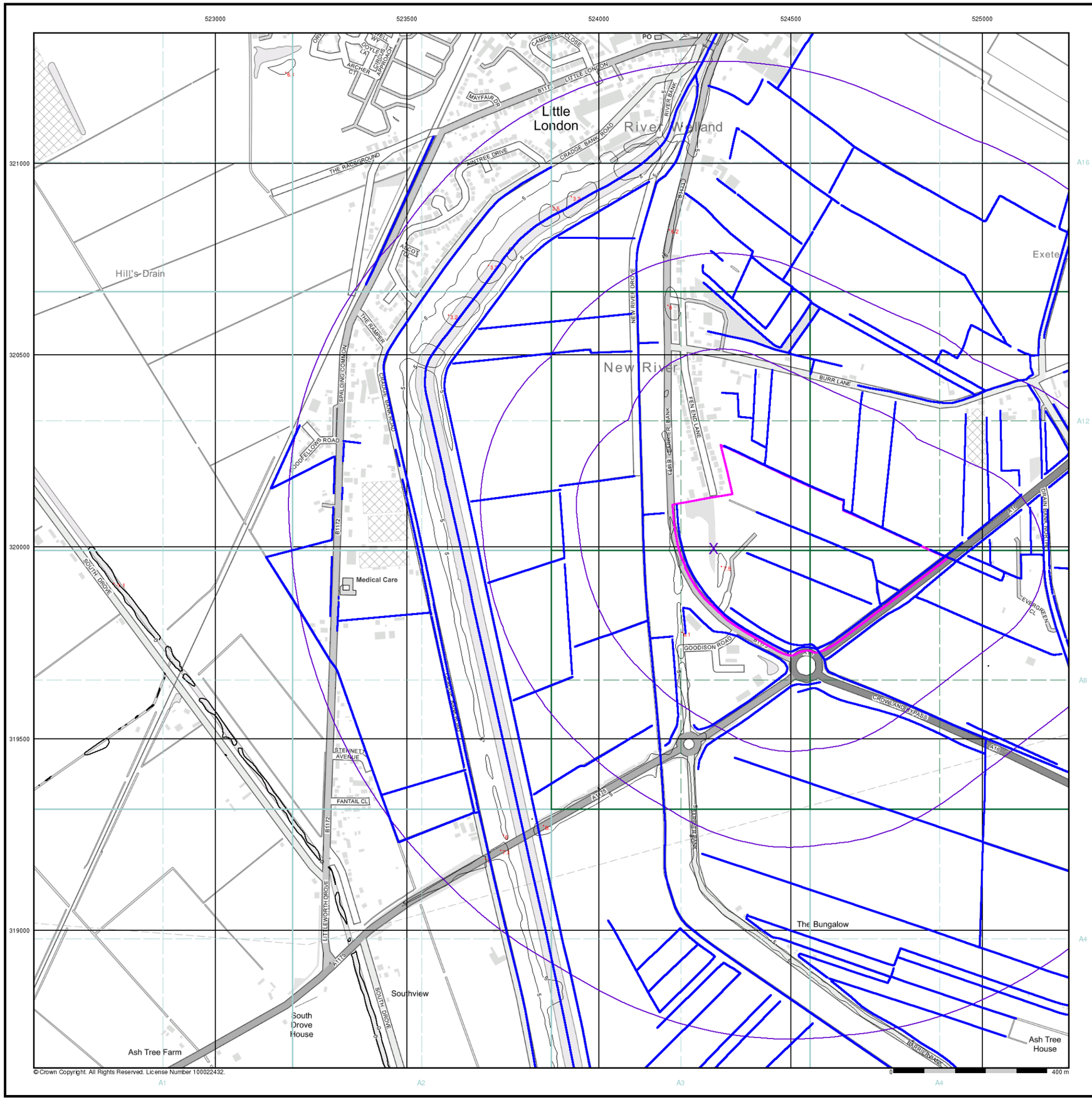
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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General

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

OS Water Network Data

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

Contours (height in meters)

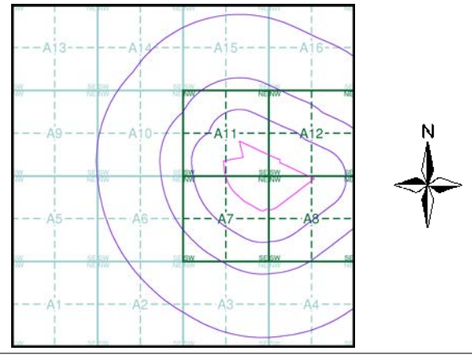
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

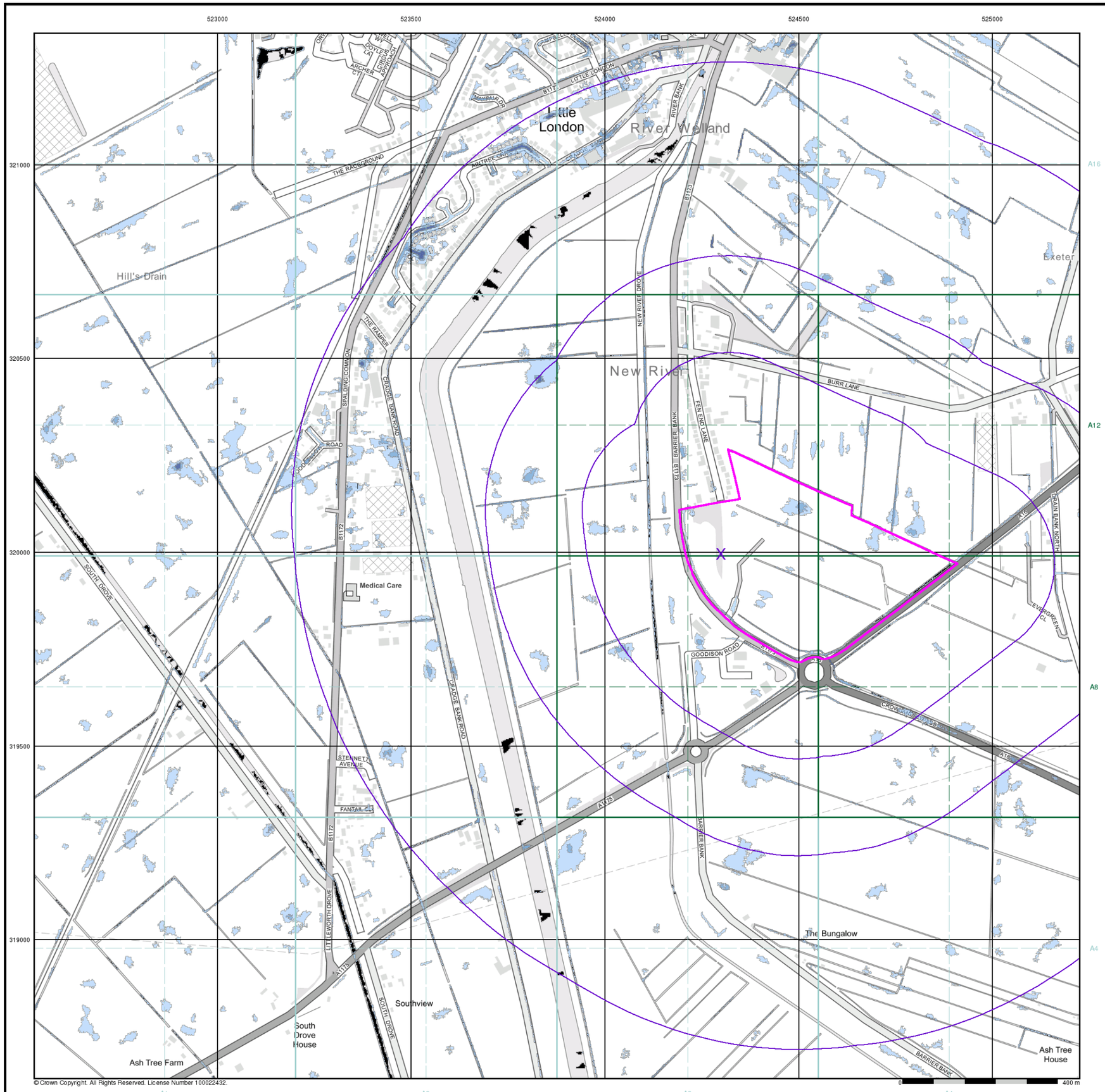
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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General

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

Risk of Flooding from Surface Water

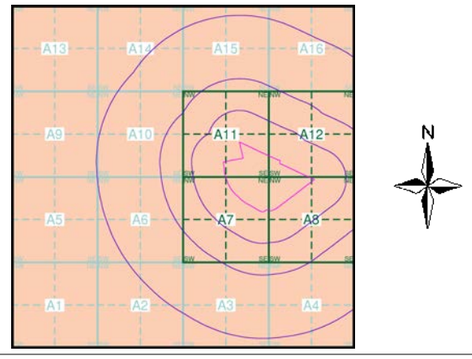
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



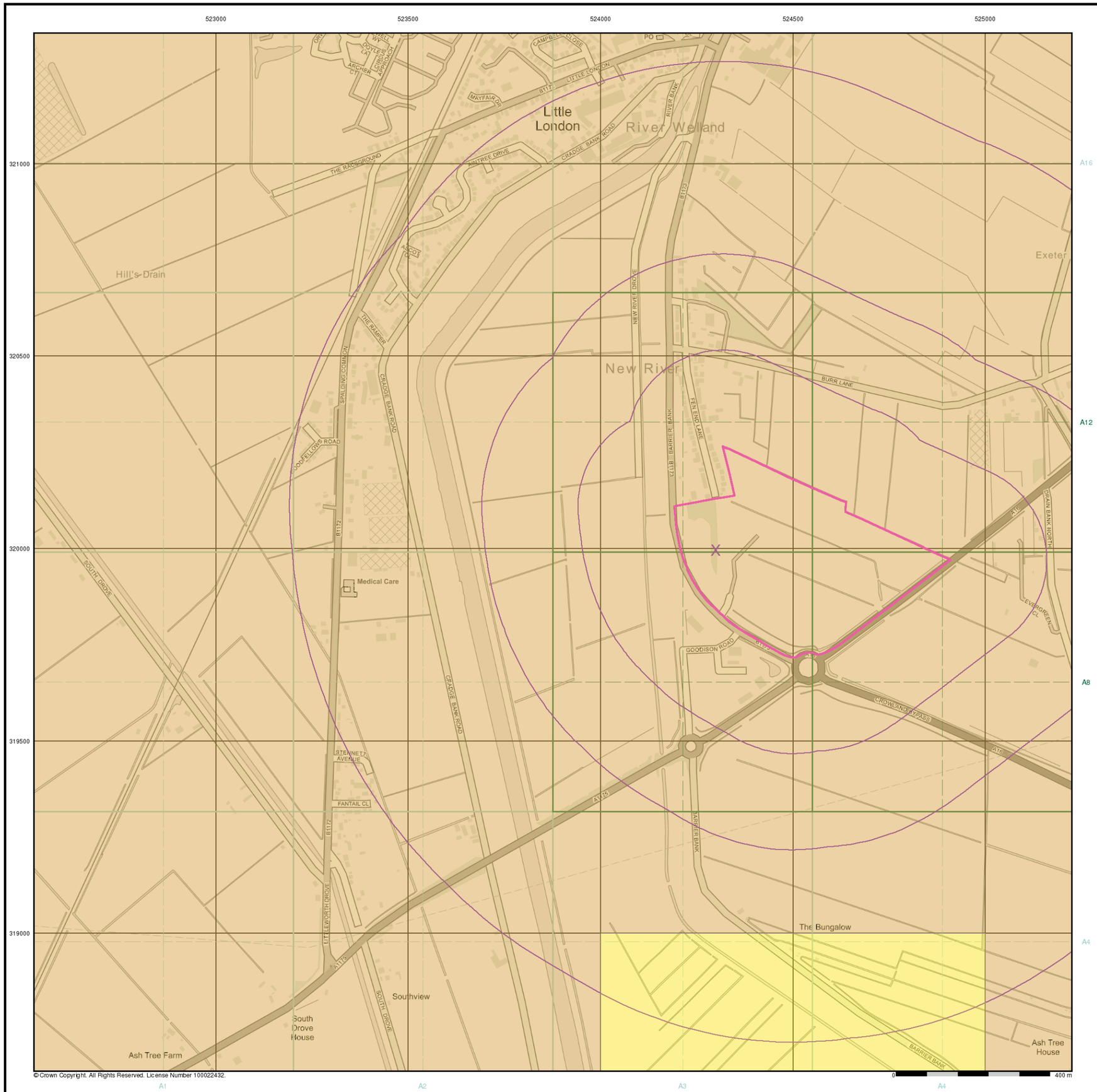
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Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
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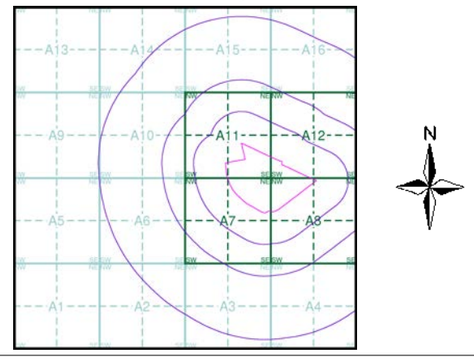
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



Order Details

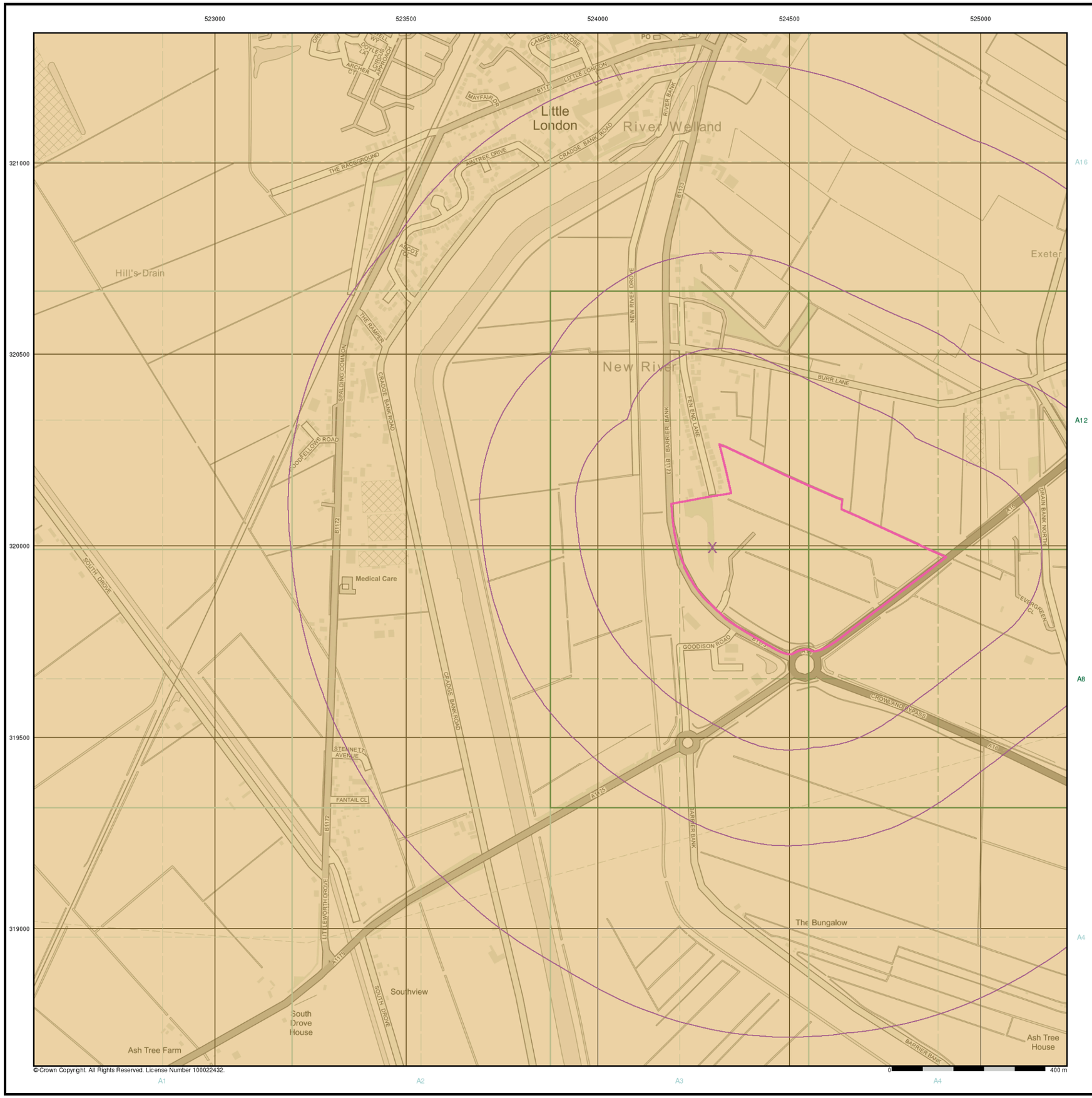
Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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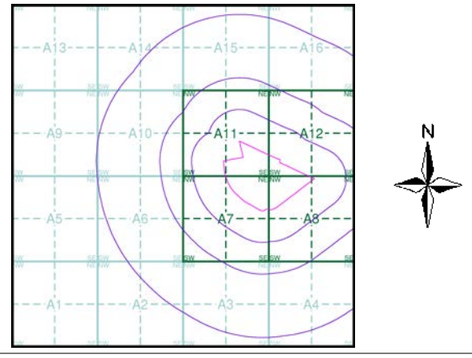
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



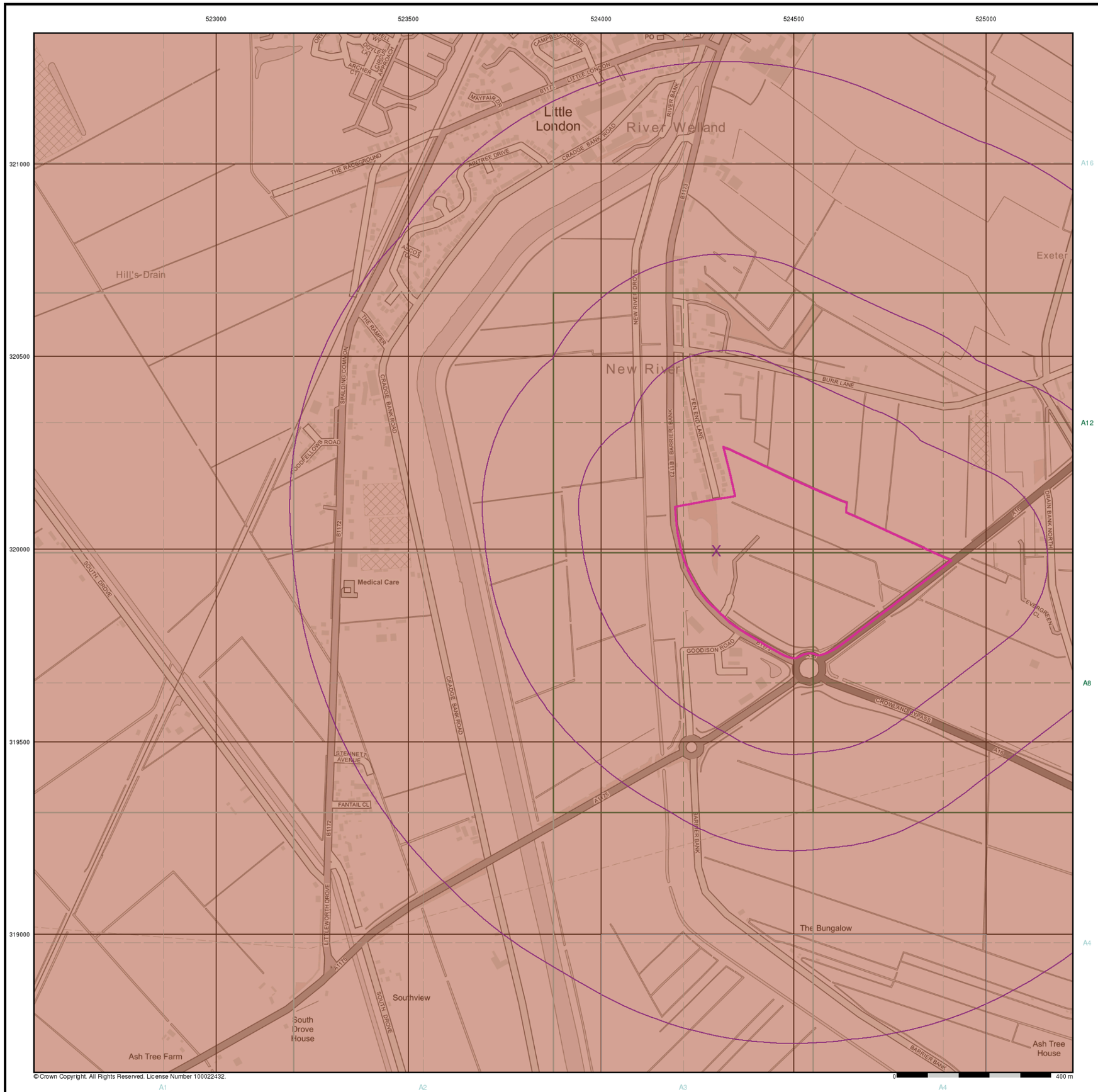
Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
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Site Area (Ha):	21.11
Search Buffer (m):	1000

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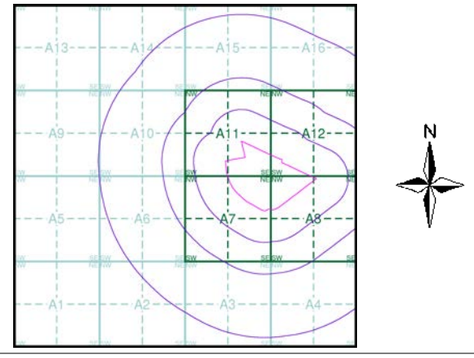
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice A



Order Details

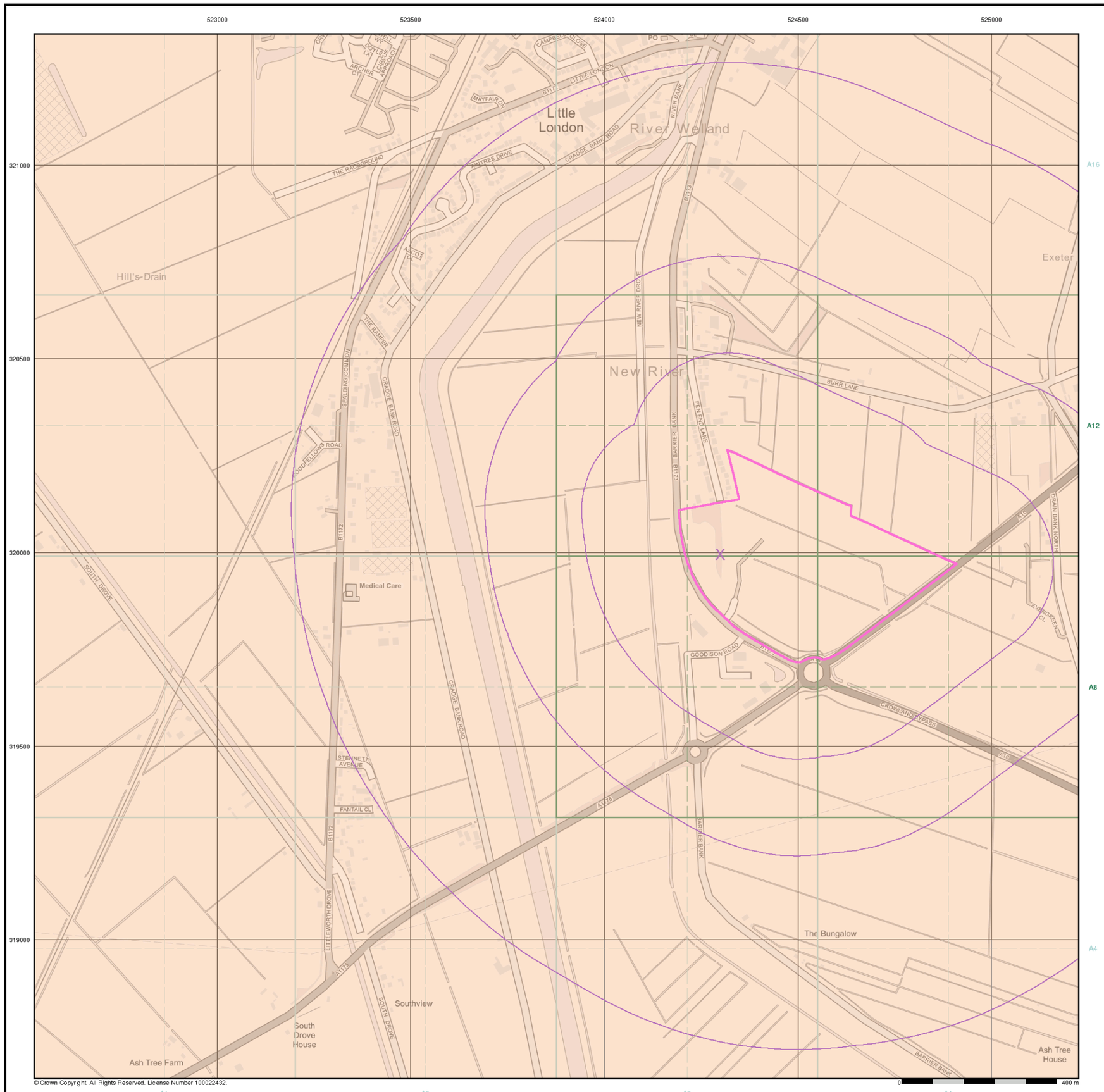
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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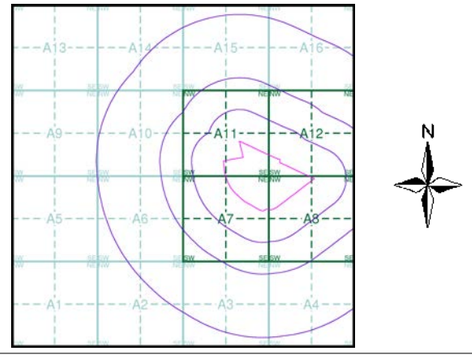
Specified Site Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

Estimated Soil Chemistry Lead - Slice A



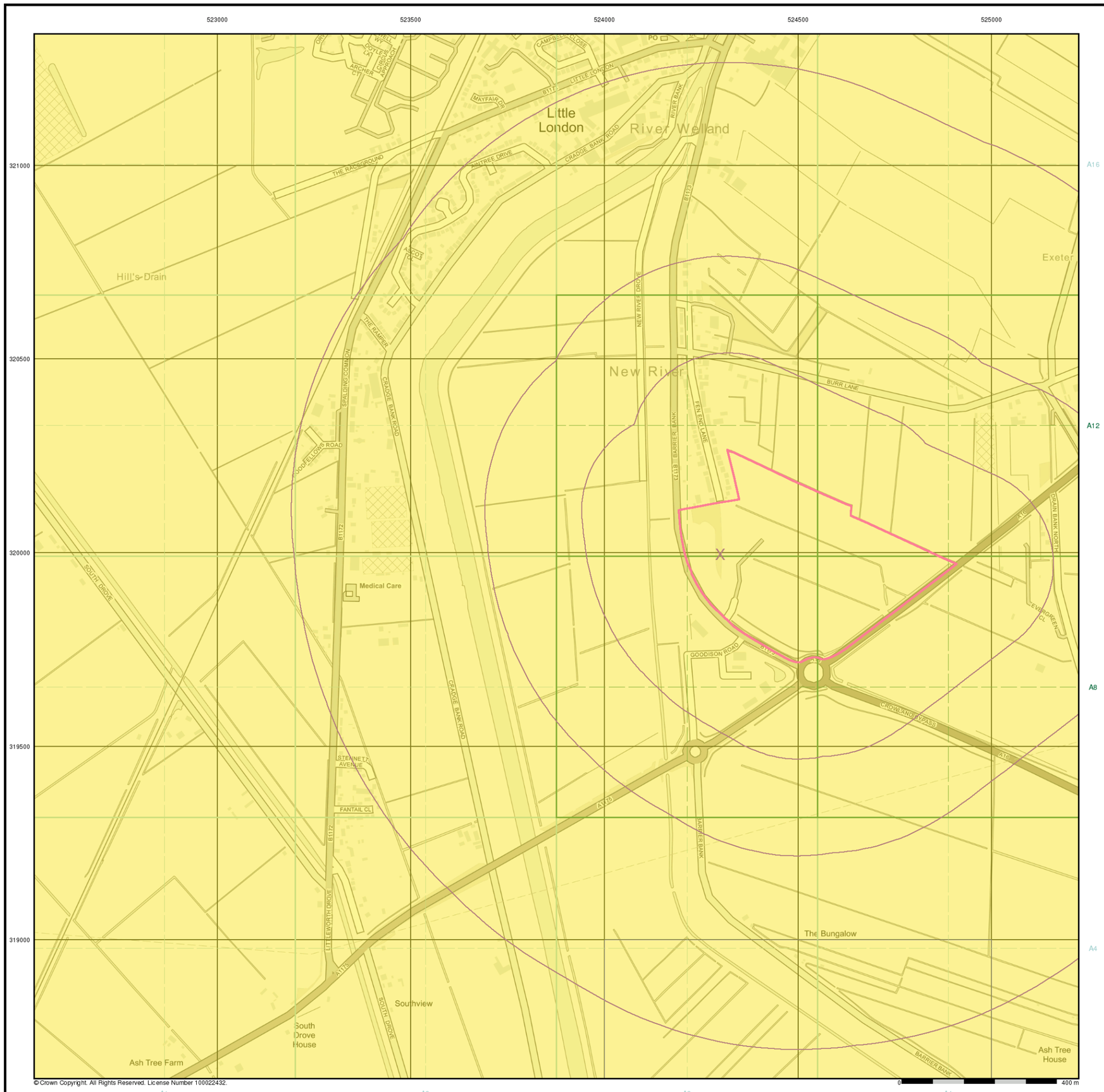
Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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A1 A2 A3 A4

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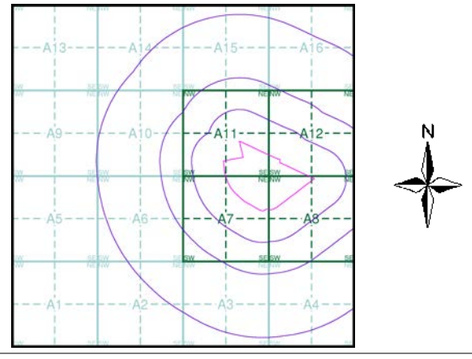
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
293435682_1_1

Customer Reference:
46934

National Grid Reference:
525510, 319960

Slice:
B

Site Area (Ha):
21.11

Search Buffer (m):
1000

Site Details:

Site at 524540, 319980

Client Details:

Mrs K Betson
Eastwood & Partners Ltd
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	14
Industrial Land Use	15
Sensitive Land Use	16
Data Currency	17
Data Suppliers	22
Useful Contacts	23

Introduction

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

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				1 (*10)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 4	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 4	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 4			10	52

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Summary

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

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 14	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 14	Yes			
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 14		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 14		Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 14		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services	pg 15				2
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production					
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 16	1			1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	B5SW (SW)	78	-	525238 319410
1	**Water Abstractions** Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Clay Lake Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B9NW (N)	864	1	525500 320600
	Water Abstractions Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Wells Drain, COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B13SE (NE)	1231	1	525900 320700
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Parsons Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B1NE (SE)	1255	1	525900 319200
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Pump Hole Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B1SE (S)	1349	1	525600 318800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Clay Lake Farm Limited Licence Number: 5/31/14/*s/177 Permit Version: Not Supplied Location: Clay Lake Drain , COWBIT FEN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 27 Yearly Rate (m3): 3000000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B10NW (NE)	1436	1	526200 320600
	Water Abstractions Operator: F A Drury Farms Ltd Licence Number: 5/31/14/*s/163b Permit Version: Not Supplied Location: Clowacre Drainage System, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 8 Yearly Rate (m3): 4000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B1SE (S)	1616	1	525900 318695
	Water Abstractions Operator: Spalding Sheepskin Co Ltd Licence Number: 5/31/14/*g/149 Permit Version: Not Supplied Location: Bore At, SPALDING Authority: Environment Agency, Anglian Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 73 Yearly Rate (m3): 227300 Details: Glacial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1708	1	525500 321595
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Pump Hole Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B2SW (SE)	1742	1	526100 318700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Farm Drain (Off Mill Drove), COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1774	1	525900 318495
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Parsons Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B3NW (SE)	1819	1	526600 319300
	Water Abstractions Operator: F A Drury Farms Ltd Licence Number: 5/31/14/*s/163b Permit Version: Not Supplied Location: Clowacre Drainage System, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 8 Yearly Rate (m3): 4000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1929	1	525900 318300
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(W)	0	2	525000 319964

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(W)	0	2	525000 320000
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	(W)	0	2	525000 320000
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	(W)	0	2	525000 319964
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	(W)	0	2	525000 319964
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	(W)	0	2	525000 320000
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	B5NW (S)	0	1	525507 319964
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	B9SW (NW)	0	1	525255 320220
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	B5NW (S)	0	1	525507 319964
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	(NW)	76	1	525150 320495
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	(NW)	249	1	525198 320311
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
2	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	B5NW (W)	280	3	525421 319929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	B9SW (NW)	323	3	525250 320217
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 191.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	(SW)	347	3	525197 319777
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	(SW)	376	3	525219 319757
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9SW (NW)	422	3	525290 320156
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 190.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (W)	425	3	525396 319984
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B5SW (SW)	433	3	525238 319408
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 428.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9SW (NW)	442	3	525274 320238
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 542.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9SW (NW)	452	3	525268 320272
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (SW)	488	3	525431 319931

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 400.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	516	3	525459 319581
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 194.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B5SW (SW)	524	3	525258 319580
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (SW)	542	3	525454 319926
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (SW)	547	3	525464 319925
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (S)	556	3	525504 319922
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (NW)	571	3	525291 320486
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 658.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Exeter Drain Catchment Name: Welland Primacy: 2	(NW)	579	3	525146 320499
19	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 383.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	(NW)	627	3	525161 320544
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 239.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (E)	627	3	525540 319959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (SE)	627	3	525533 319920
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (S)	632	3	525523 319811
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 398.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5NW (S)	635	3	525523 319811
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 246.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B1NW (S)	645	3	525235 319152
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B5SW (SW)	672	3	525252 319387
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 358.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9SW (N)	679	3	525558 320170
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	689	3	525275 319383
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 197.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	694	3	525271 319374
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B5SW (SW)	695	3	525250 319356

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Welland Primacy: 2	B5SW (SW)	698	3	525254 319355
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 208.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	B5SW (SW)	699	3	525250 319351
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 363.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	706	3	525263 319353
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	709	3	525383 320497
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 459.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	717	3	525421 319364
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	732	3	525384 320527
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	744	3	525396 320532
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	746	3	525398 320533
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	746	3	525381 319283

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	750	3	525346 319361
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	754	3	525407 320536
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	758	3	525412 320537
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 490.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SW (S)	759	3	525355 319356
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 269.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	795	3	525401 319220
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 187.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	800	3	525401 319242
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 332.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	812	3	525397 319200
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 430.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	860	3	525406 319141
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SE (S)	863	3	525665 319555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Nene Primacy: 2	B9NW (N)	864	3	525526 320575
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Nene Primacy: 2	B9NW (N)	875	3	525539 320577
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 290.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	877	3	525250 319127
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 224.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B5SE (SE)	878	3	525681 319553
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	880	3	525458 319283
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Clay Lake Catchment Name: Nene Primacy: 2	B9NW (N)	884	3	525550 320579
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 272.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NW (N)	884	3	525533 320597
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NE (N)	889	3	525586 320546
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NE (N)	890	3	525606 320523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NE (N)	903	3	525624 320522
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B9NE (N)	916	3	525626 320540
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 96.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	926	3	525502 319259
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	926	3	525516 319264
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 336.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	947	3	525537 319262
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 228.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	B1NW (S)	996	3	525359 319060
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.7 Watercourse Level: Underground Permanent: True Watercourse Name: Clay Lake Catchment Name: Nene Primacy: 2	B9NE (N)	999	3	525669 320617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	**Licensed Waste Management Facilities (Locations)** Licence Number: 73063 Location: The Ranch Scrapyard, Clay Lake, Spalding, Lincolnshire, PE12 6BL Operator Name: Mr D A Boswell Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Revoked** Issued: 27th March 1997 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	B13SW (N)	959	1	525229 320878
64	**Licensed Waste Management Facilities (Locations)** Licence Number: 70918 Location: Land/ Premises At, Clay Lake, Spalding, Lincolnshire, PE12 6BL Operator Name: Mr D A Boswell - T/a S G Boswell & Sons Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Transfer Stations **Licence Status: Issued** Issued: 19th May 1994 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	B13SW (N)	959	1	525229 320878
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	5	525507 319964
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	4	525507 319964
65	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	B9SW (N)	334	-	525433 320161
66	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	B9SW (NW)	492	-	525357 320173
67	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	B9NW (N)	603	-	525542 320344
68	**Registered Waste Transfer Sites** Licence Holder: D A Boswell Licence Reference: L100 Site Location: The Ranch Scrapyard, Clay Lake, SPALDING, Lincolnshire, PE12 6BL Operator Location: As Site Address Authority: Environment Agency - Anglian Region, Northern Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 17th July 1989 Preceded By Licence: Not Given Superseded By Licence: L100/S042 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate Authorised Waste: Lincs Cat. A -Solid Inert * Lincs Cat. B -Solid Semiinert*	(N)	910	1	525216 320830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**Registered Waste Treatment or Disposal Sites** Licence Holder: D A Boswell Licence Reference: L100/S042 Site Location: The Ranch Scrapyard, Clay Lake, SPALDING, Lincolnshire, PE12 6BL Operator Location: As Site Address Authority: Environment Agency - Anglian Region, Northern Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 1st April 1995 Preceded By Licence: L100/S042 Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Lincs Cat.A Inert Waste Lincs Cat.B Gen.Waste (Slow Decomp) Lincs Cat.C Putrescible Max.Waste To Scrapyard Max.Waste To Transfer Station Some Lincs Cat.Di Difficut Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S	B13SW (N)	952	1	525230 320870
69	**Registered Waste Treatment or Disposal Sites** Licence Holder: D A Boswell Licence Reference: L100/S042 Site Location: The Ranch Scrapyard, Clay Lake, SPALDING, Lincolnshire, PE12 6BL Operator Location: As Site Address Authority: Environment Agency - Anglian Region, Northern Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Record supersededSuperseded Dated: 19th May 1994 Preceded By Licence: L100 Superseded By Licence: L100/S042 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Animal Processing Wastes Animal/Veg.Based Products Bagged Dom.Waste/Sim'R From Trade/Ind. Batteries (Dry) Batteries With Acid Biodegradable/Putrescible Waste Decontam./Clean Empty Containers Electrical Cable & Wire Empty Used Containers But Not Food Processing Waste Lincs Cat.A Inert Waste Lincs Cat.B Gen.Waste (Slow Decomp) Lincs Cat.Bii Gen.W.-Scrap Met.Solid Lincs Cat.Biii Gen.W-Scrapmet.Nonsol Max.Waste Permitted By Licence Mineral Oils Press'D Containers Rubber & Latex (Including Tyres) Scrap Metal Waste Food Prohibited Waste: Animal Tissues Difficult Waste N.O.S. Liquid Waste N.O.S. Those Contain.Hazardous Mat'Ls Waste N.O.S.	B13SW (N)	952	1	525230 320870

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Kellaways Formation And Oxford Clay Formation (Undifferentiated)	B5NW (S)	0	6	525507 319964
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	B5NW (S)	0	6	525507 319964
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B5NW (S)	91	6	525507 319964
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9SW (N)	96	6	525507 320000
	Radon Potential - Radon Affected Areas No Data Available				
	Radon Potential - Radon Protection Measures No Data Available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**Points of Interest - Commercial Services** Name: Scrap Yard Location: PE12 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	B13SW (N)	956	7	525226 320876
70	**Points of Interest - Commercial Services** Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	B13SW (N)	987	7	525237 320906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Nitrate Vulnerable Zones** Name: River Welland Nvz Description: Surface Water Source: Environment Agency, Head Office	(W)	0	2	525174 319955
72	**Nitrate Vulnerable Zones** Name: Vernatt'S Drain Nvz Description: Surface Water Source: Environment Agency, Head Office	(NW)	605	2	524169 321089

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office South Holland District Council - Environmental Services	 June 2020 September 2017	 Annually Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	 January 2022	 Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	 March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region	 January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	 January 2022	 Quarterly
Local Authority Integrated Pollution Prevention And Control South Holland District Council - Environmental Services	 October 2014	 Variable
Local Authority Pollution Prevention and Controls South Holland District Council - Environmental Services	 October 2014	 Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Holland District Council - Environmental Services	 October 2014	 Variable
Nearest Surface Water Feature Ordnance Survey	 February 2022	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	 September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	 July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	 March 2013	
Registered Radioactive Substances Environment Agency - Anglian Region	 June 2016	 As notified
River Quality Environment Agency - Head Office	 November 2001	 Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	 April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	 April 2012	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	 January 2022	 Quarterly
Water Abstractions Environment Agency - Anglian Region	 January 2022	 Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	 October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	 June 2018	 As notified
Bedrock Aquifer Designations Environment Agency - Head Office	 January 2018	 Annually
Superficial Aquifer Designations Environment Agency - Head Office	 January 2018	 Annually
Source Protection Zones Environment Agency - Head Office	 May 2021	 Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	 February 2022	 Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	 February 2022	 Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2022	Quarterly
Flood Defences Environment Agency - Head Office	February 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	January 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	January 2022	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	January 2022	Quarterly
Local Authority Landfill Coverage Lincolnshire County Council South Holland District Council - Environmental Services	 February 2003 February 2003	 Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lincolnshire County Council South Holland District Council - Environmental Services	 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	June 2015	

Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Lincolnshire County Council - Highways and Planning Department	August 2010	Variable
South Holland District Council	January 2016	Variable
Planning Hazardous Substance Consents		
Lincolnshire County Council - Highways and Planning Department	August 2007	Variable
South Holland District Council	January 2016	Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Data Currency

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

Data Currency

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

Data Suppliers

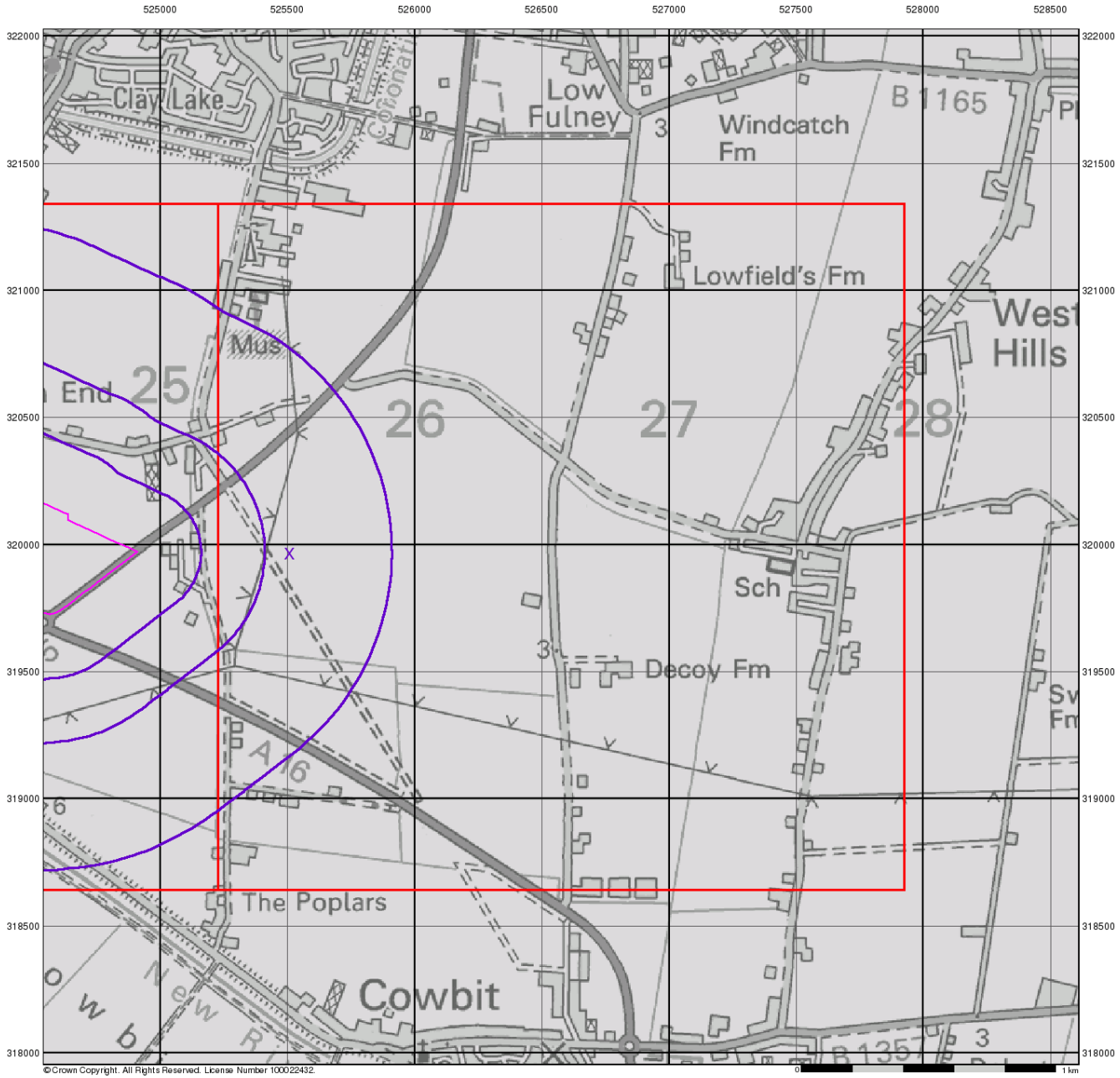
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
2	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
3	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	**Lincolnshire County Council** 4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN	Telephone: 01522 552222 Fax: 01522 552288 Email: PublicRelations@lincolnshire.gov.uk Website: www.lincolnshire.gov.uk
5	**South Holland District Council - Environmental Services** Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Website: www.sholland.gov.uk
6	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

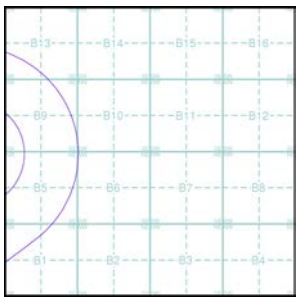
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice B



Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Bedrock Aquifer Designation

General

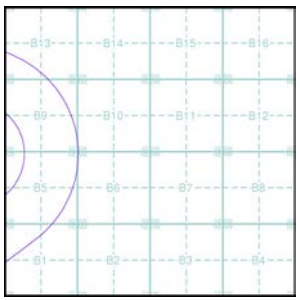
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



Order Details

Order Number:	293435682_1_1
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Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

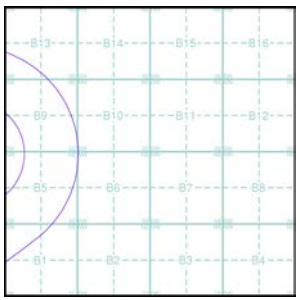
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B



Order Details

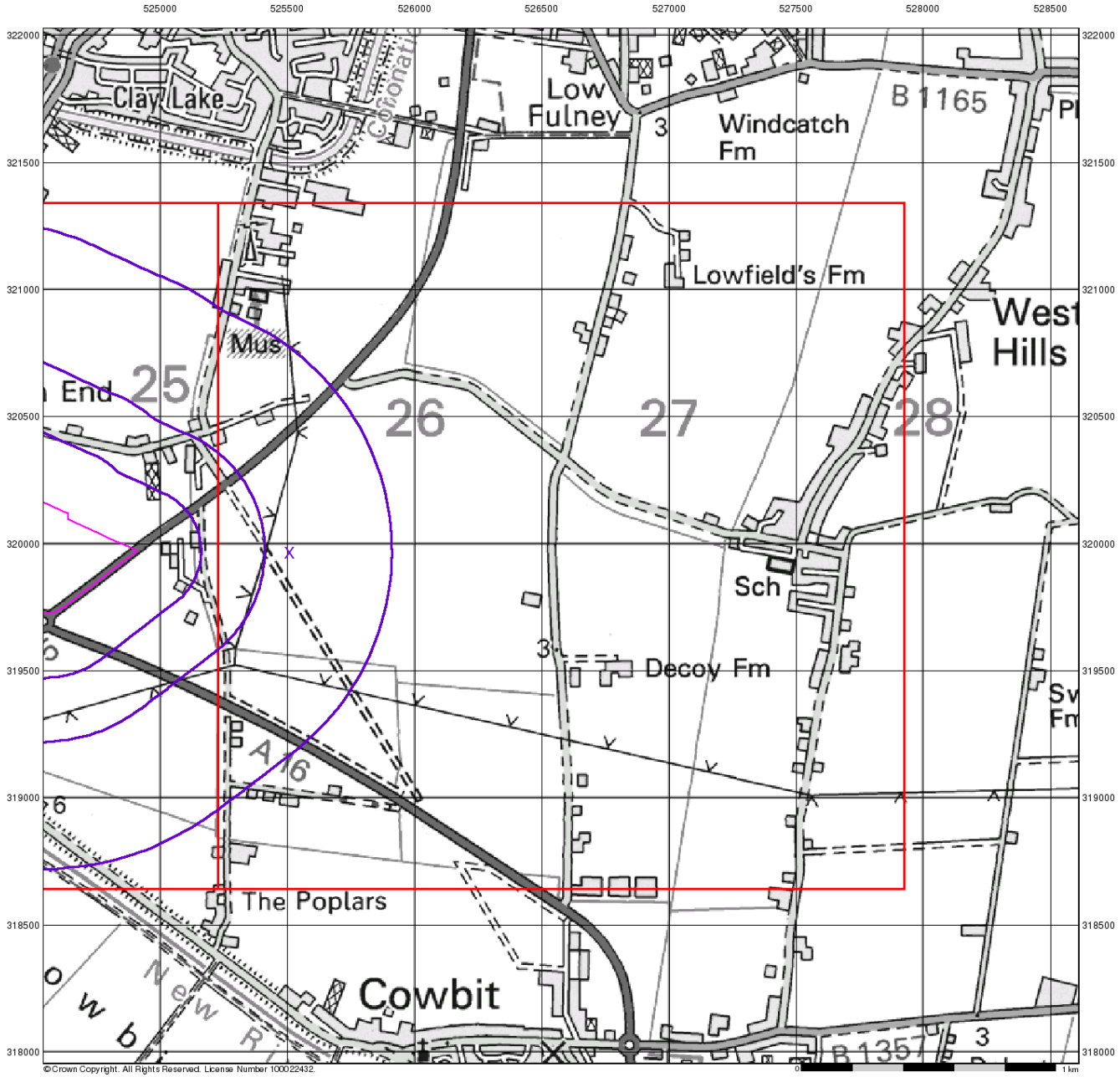
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Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

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Source Protection Zones

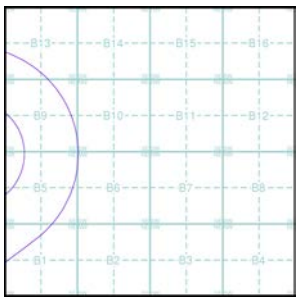
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice B



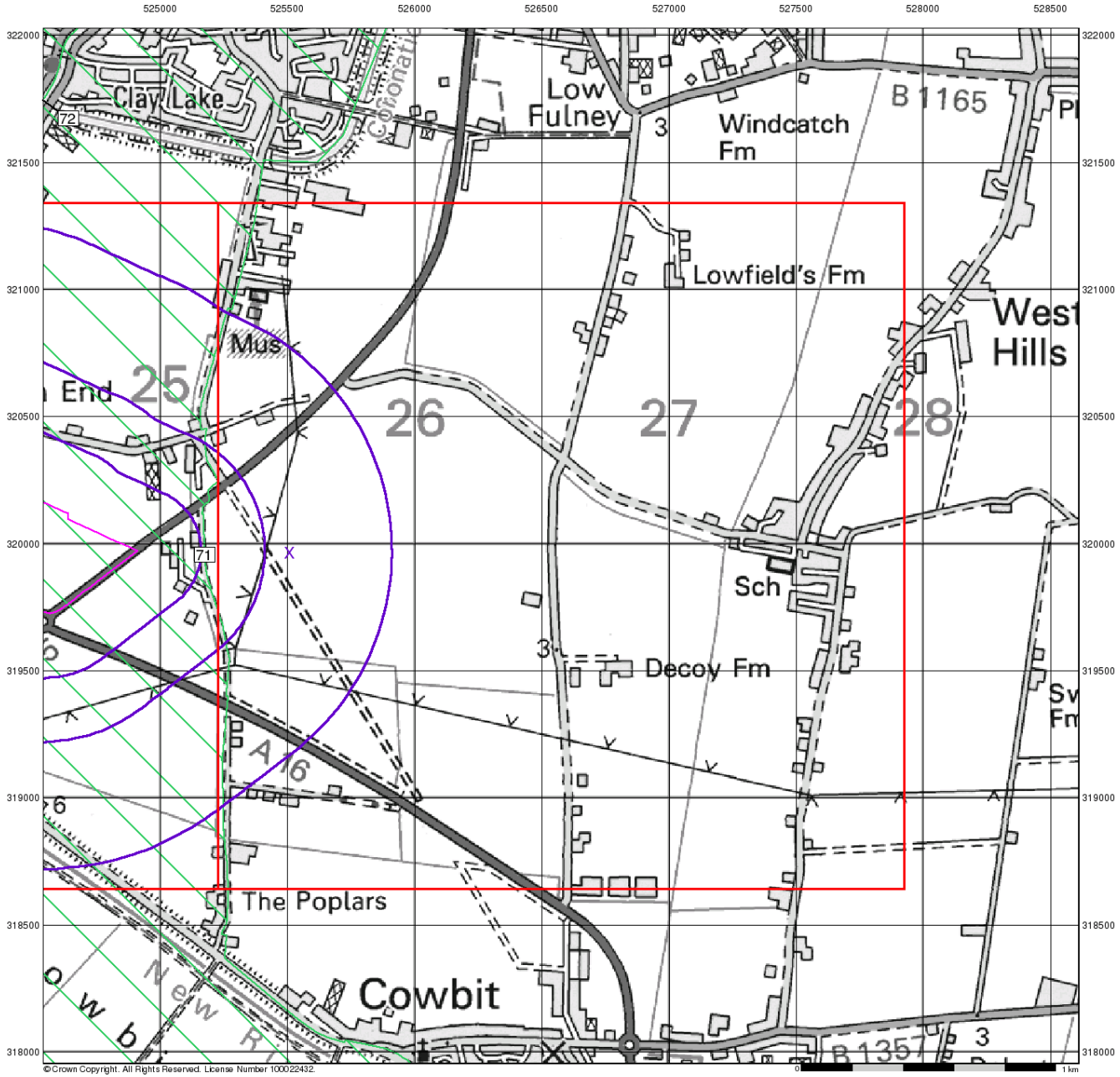
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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Sensitive Land Uses

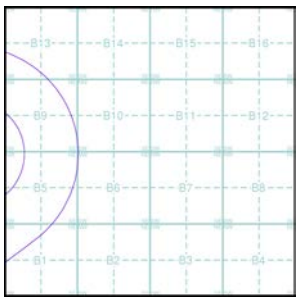
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice B



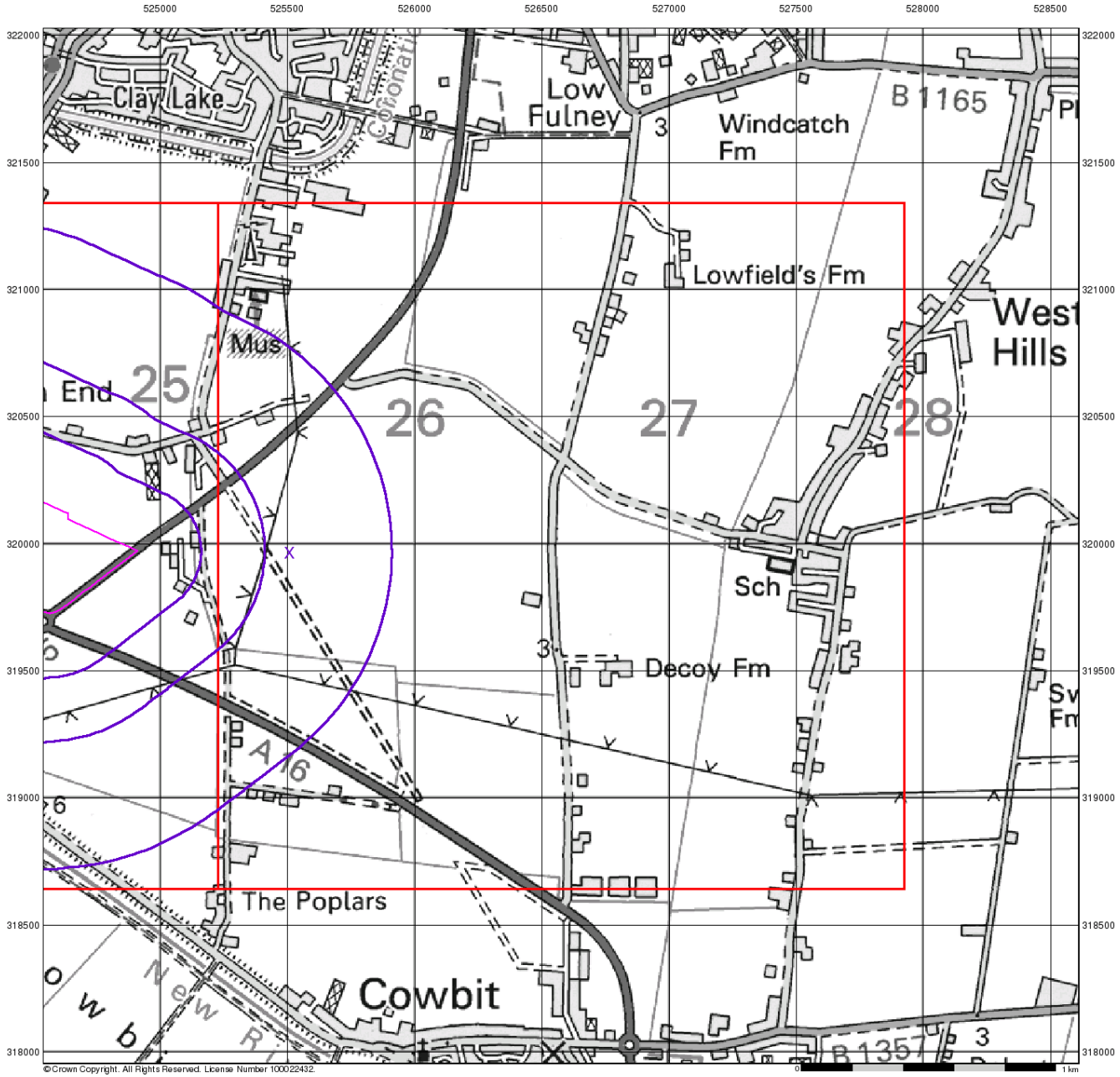
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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BGS Flood GFS Data

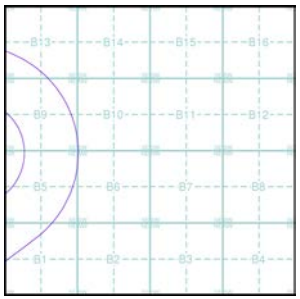
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice B



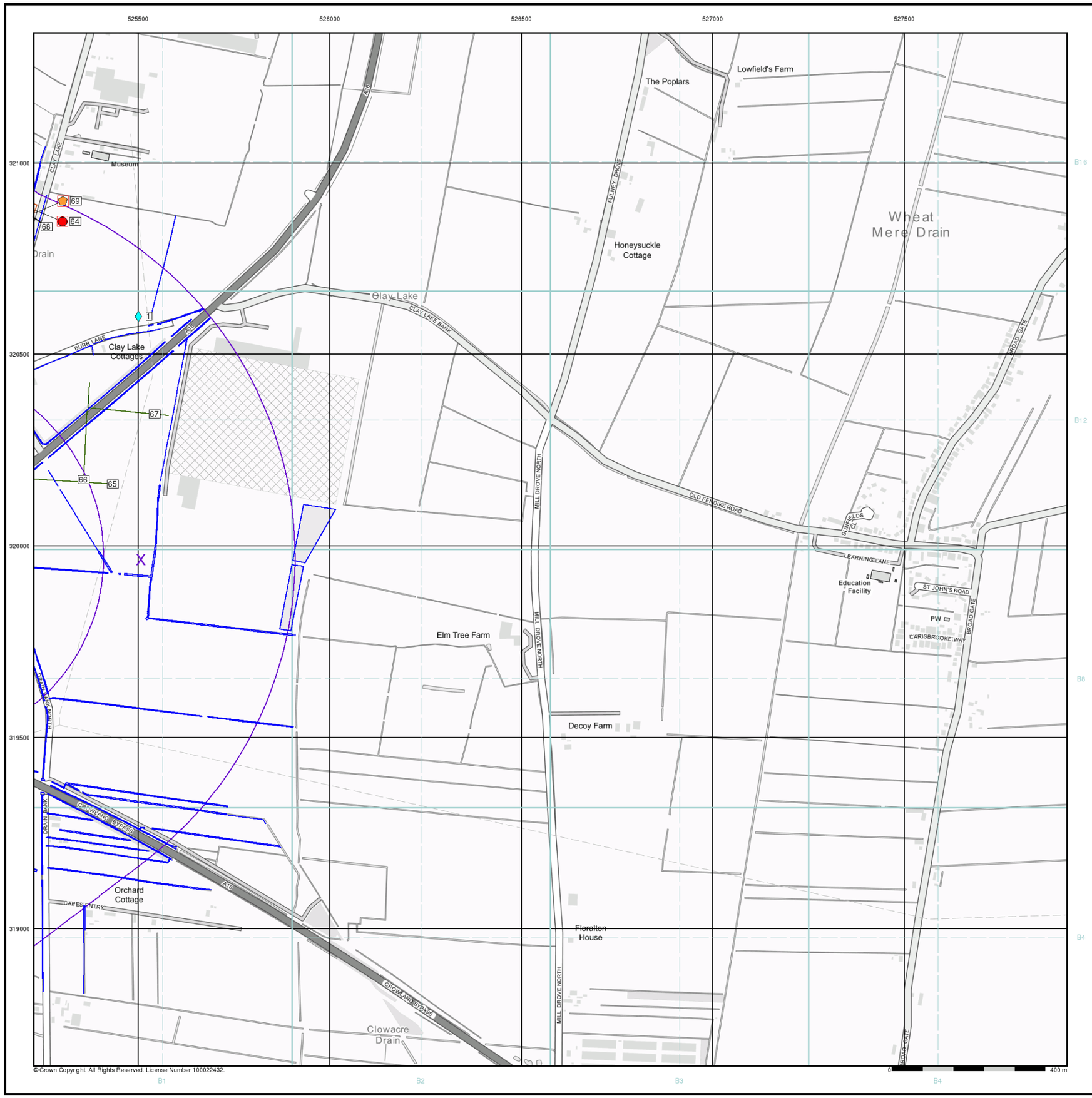
Order Details

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National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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General

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

Agency and Hydrological

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

Hazardous Substances

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

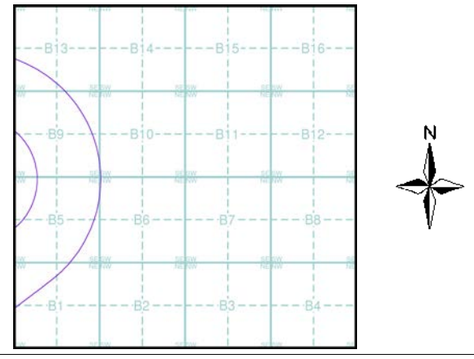
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice B



Order Details

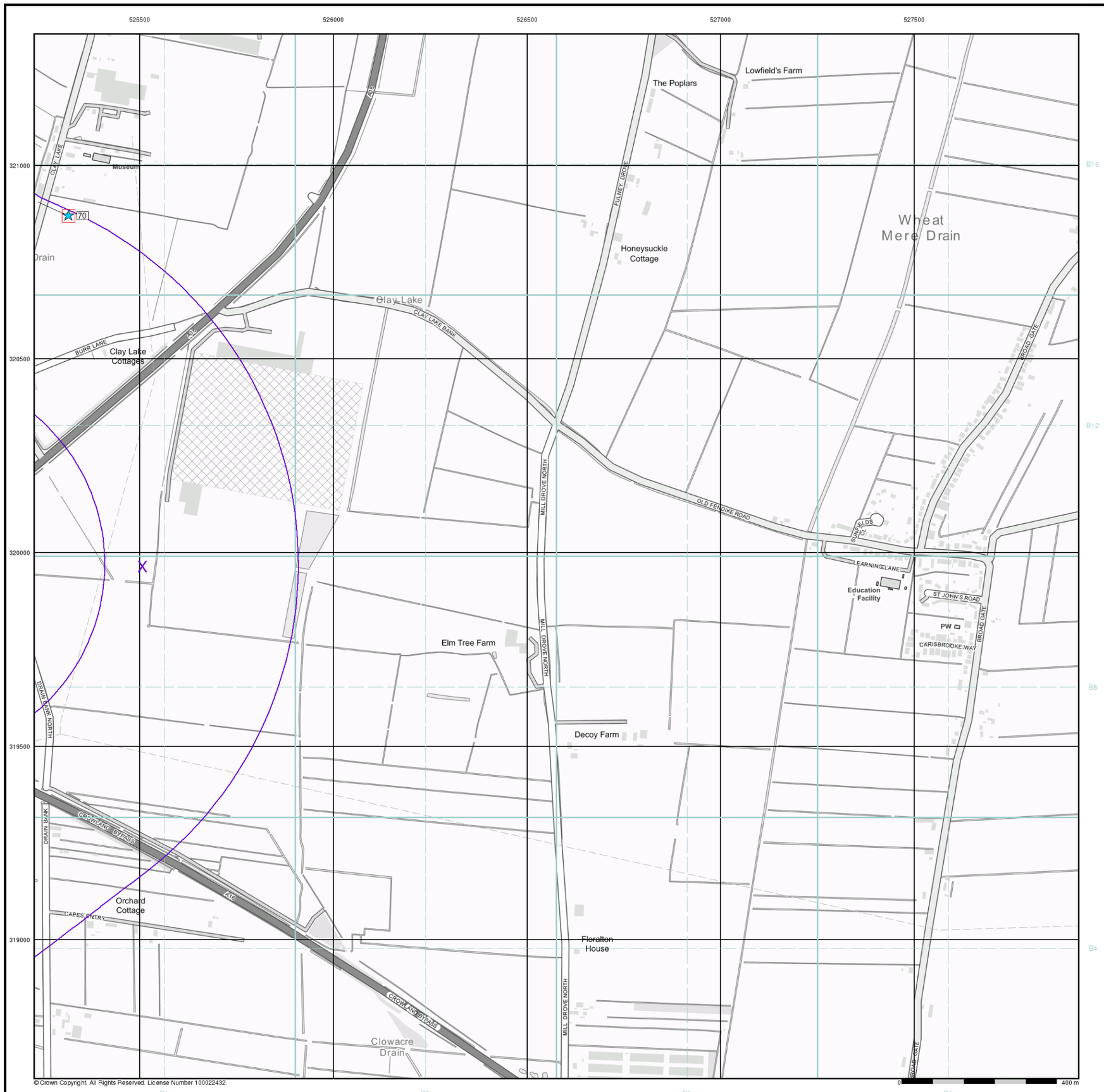
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Industrial Land Use Map

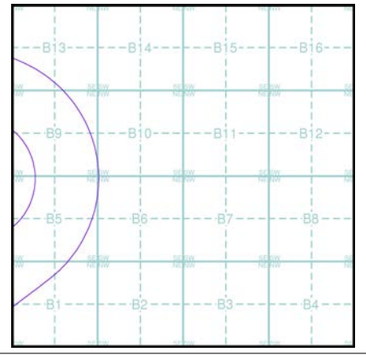
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice B



Order Details

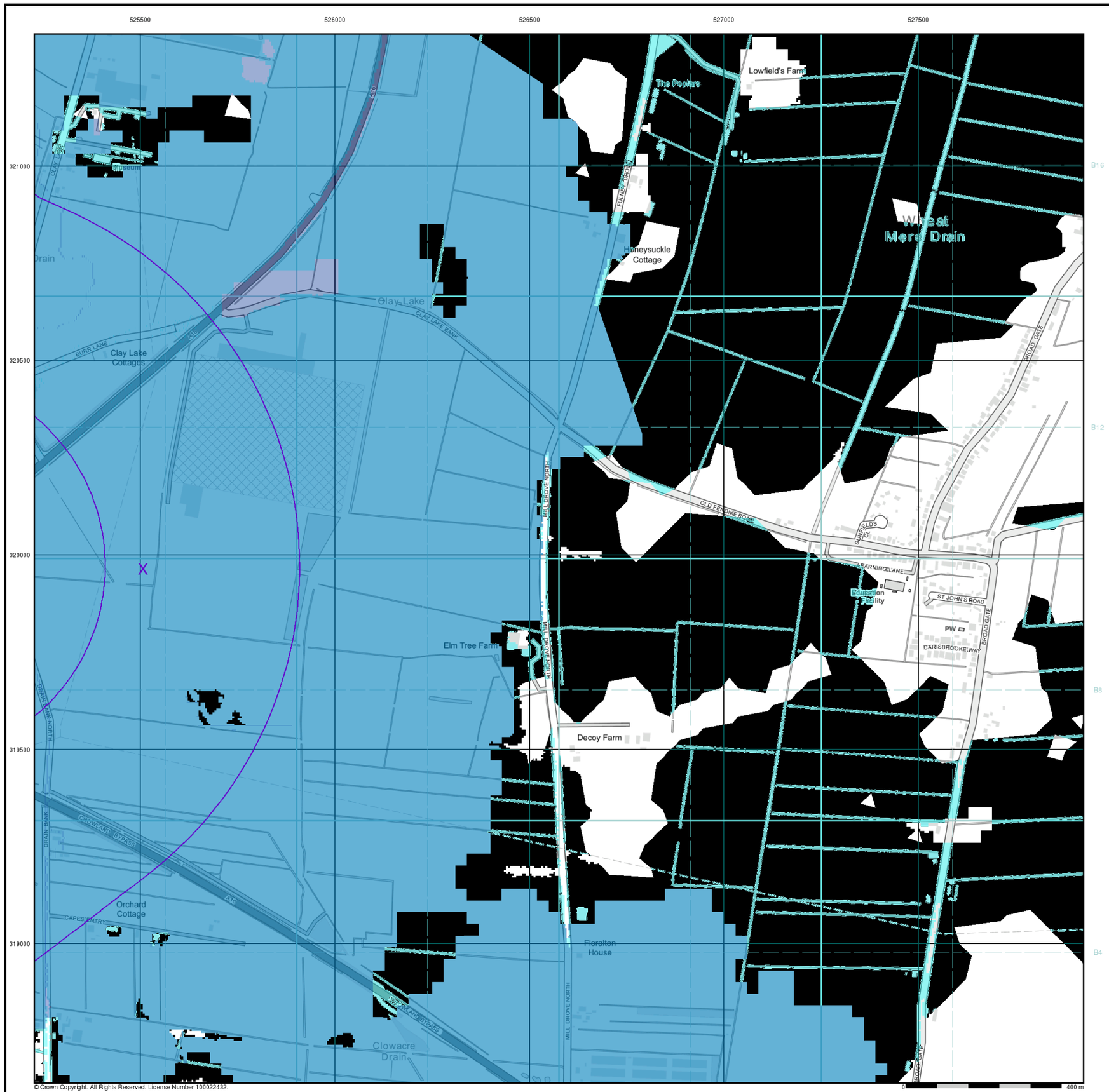
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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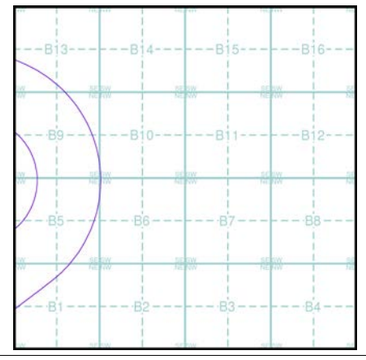
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice B



Order Details

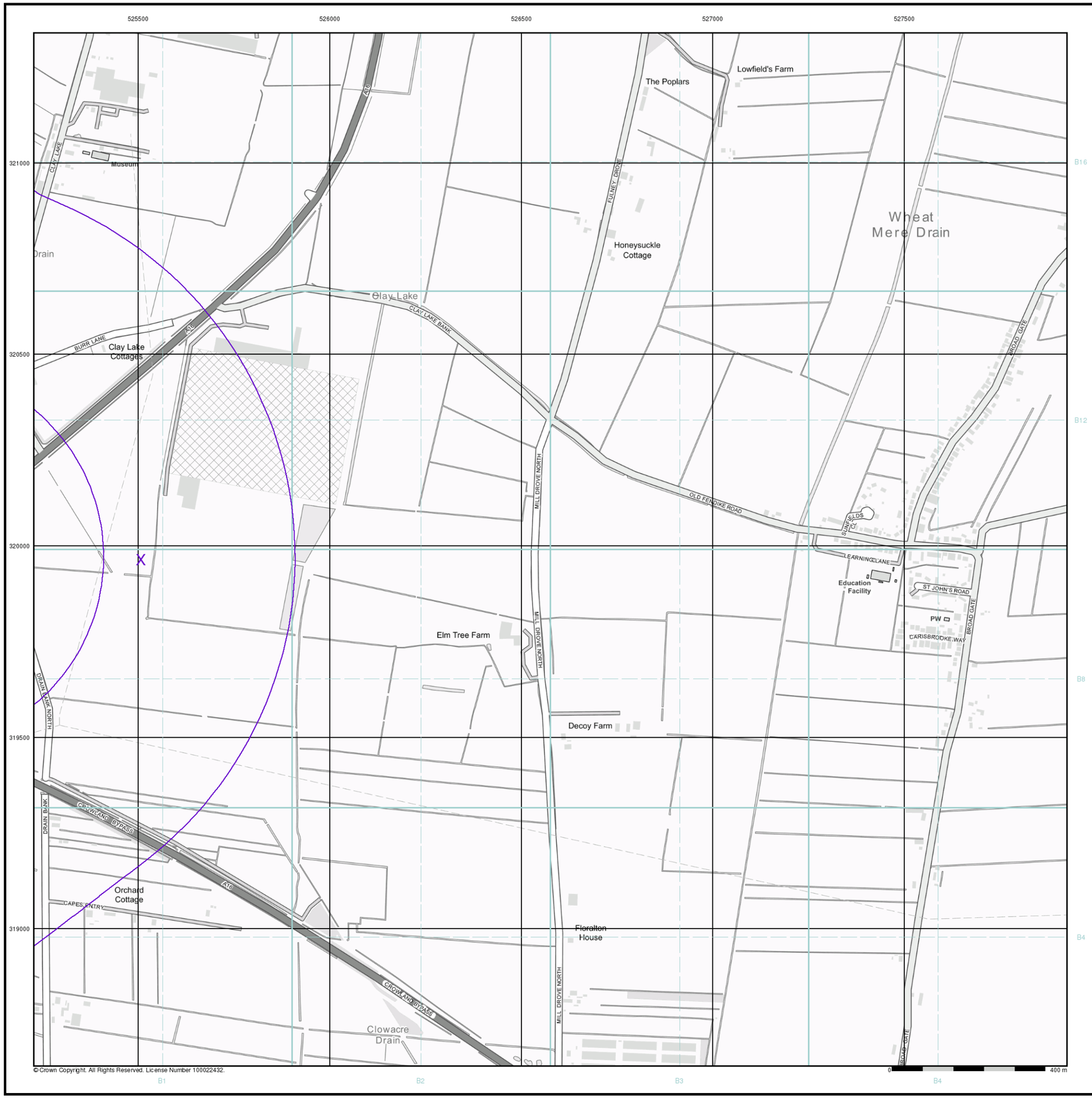
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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General

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

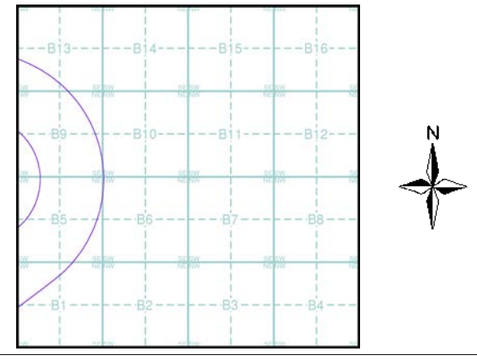
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice B



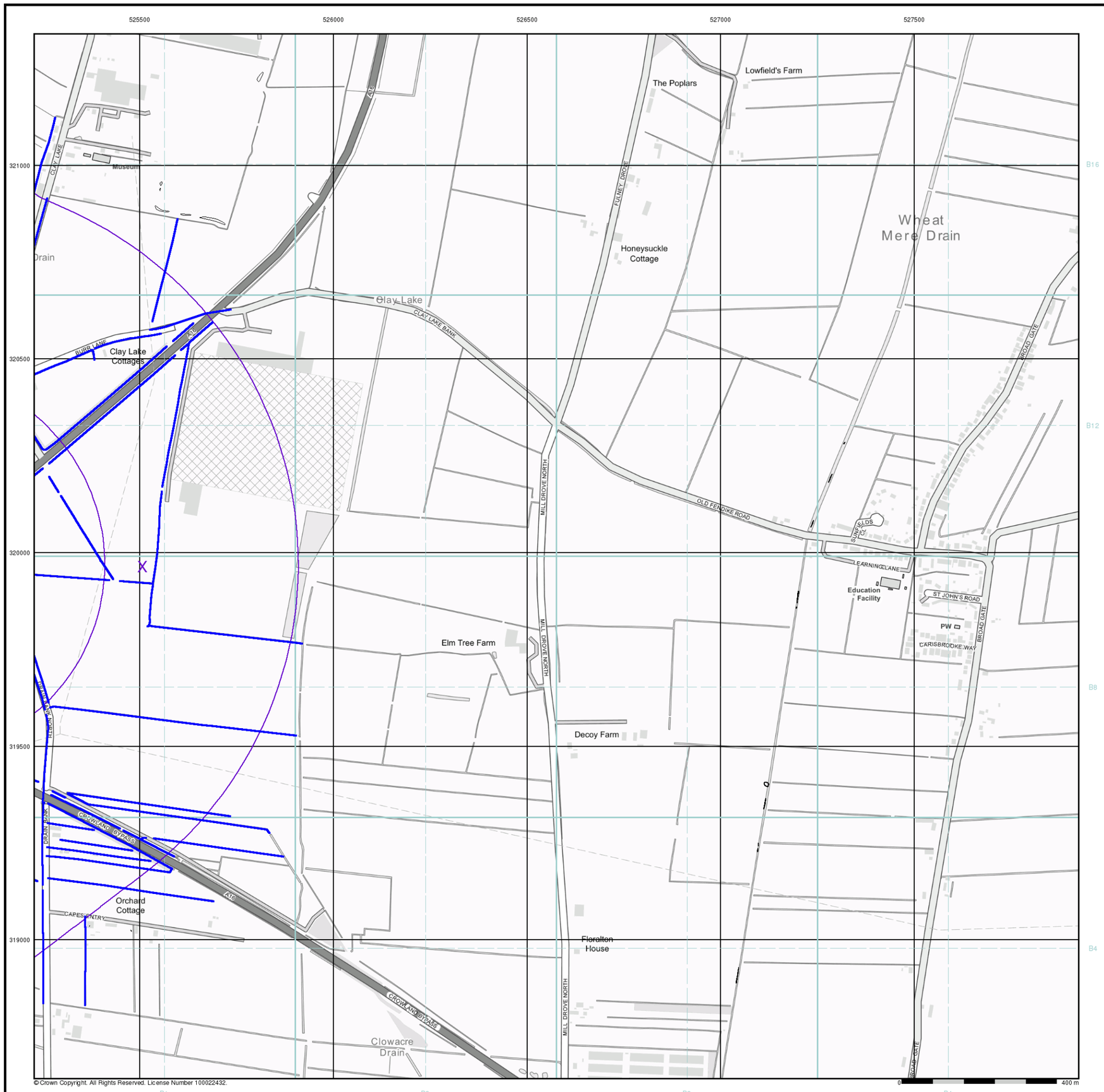
Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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General

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

OS Water Network Data

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

Contours (height in meters)

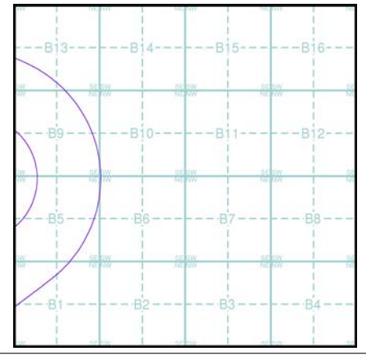
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice B



Order Details

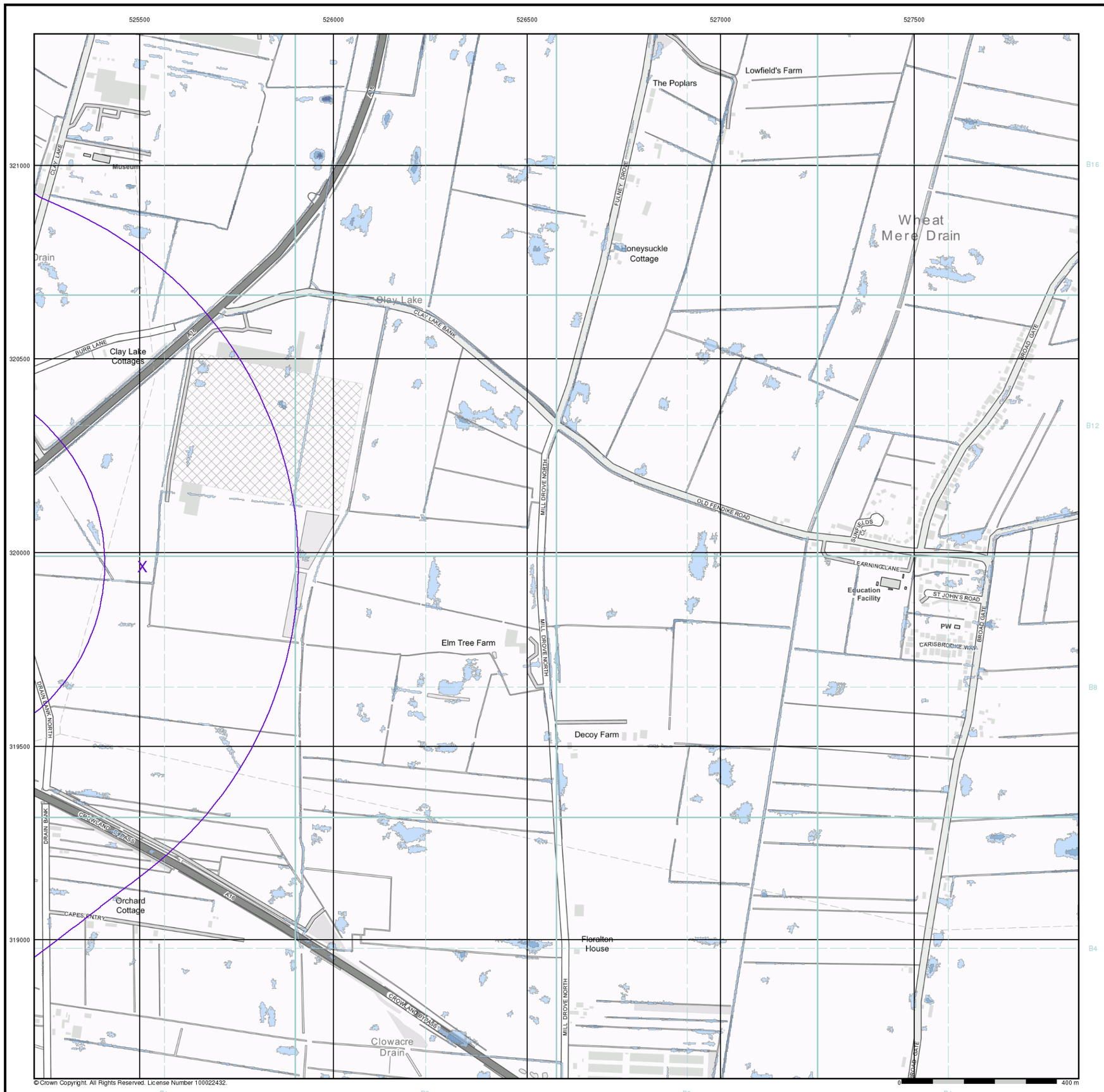
Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

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General

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

Risk of Flooding from Surface Water

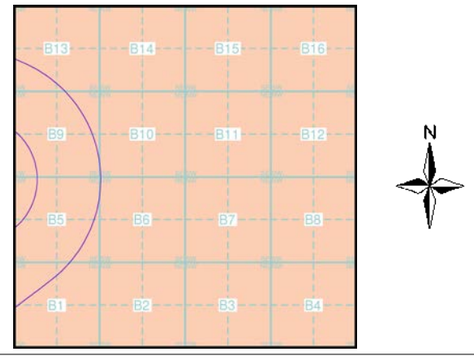
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice B



Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

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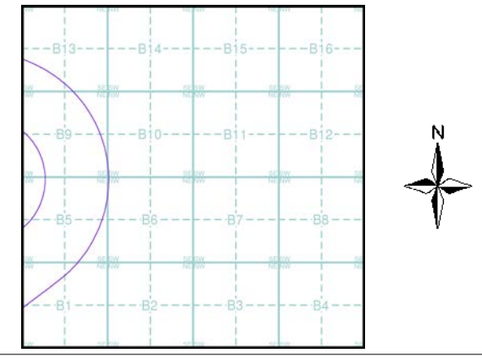
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice B



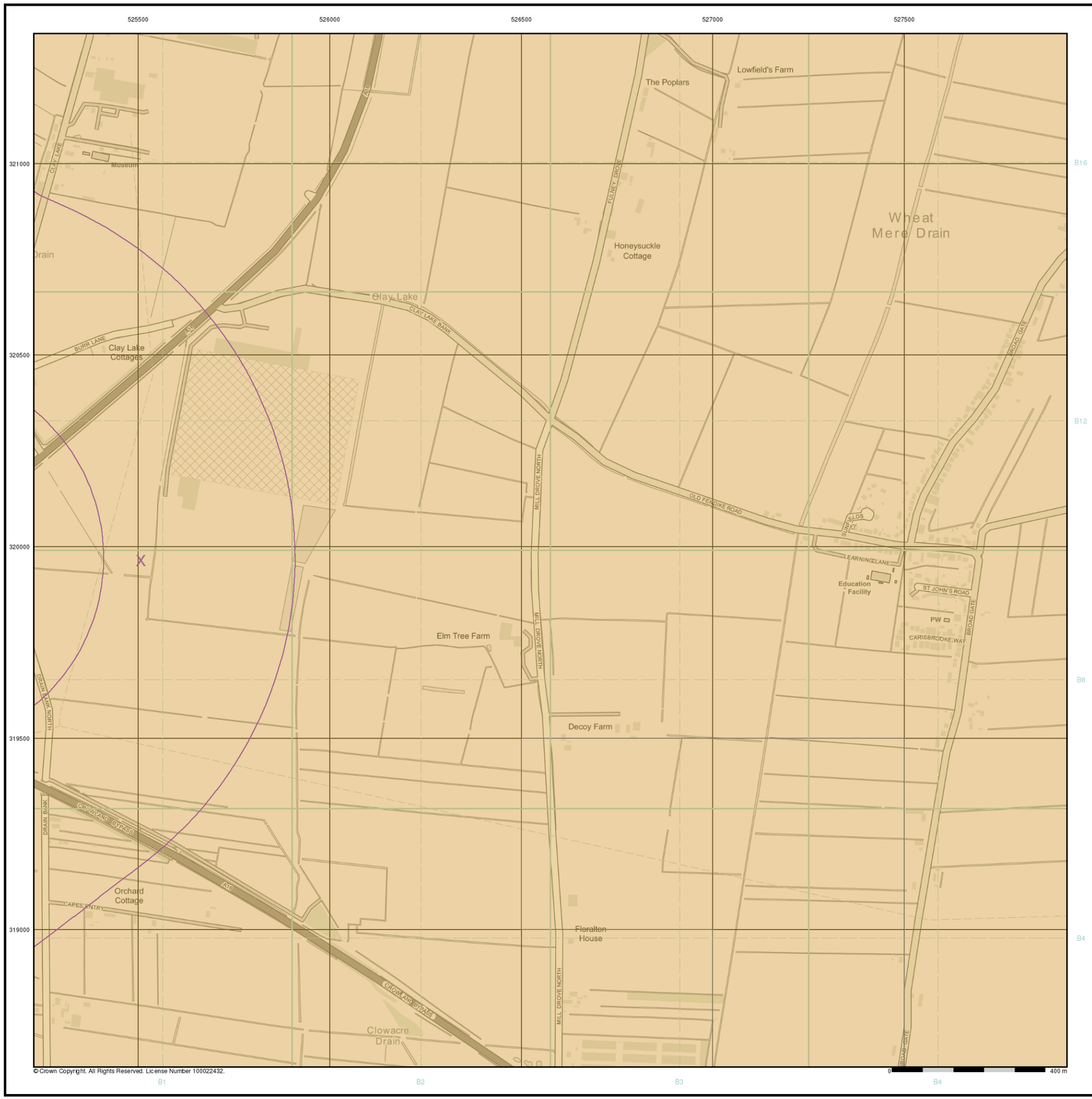
Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

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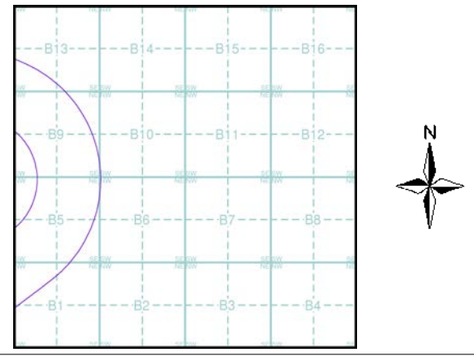
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice B



Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

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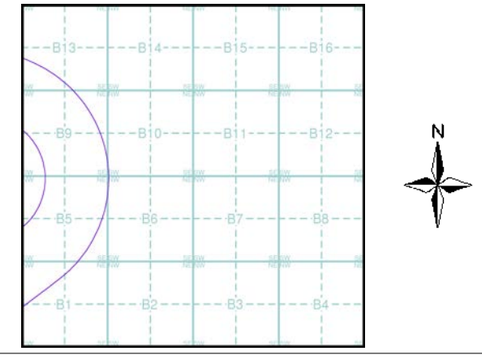
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice B



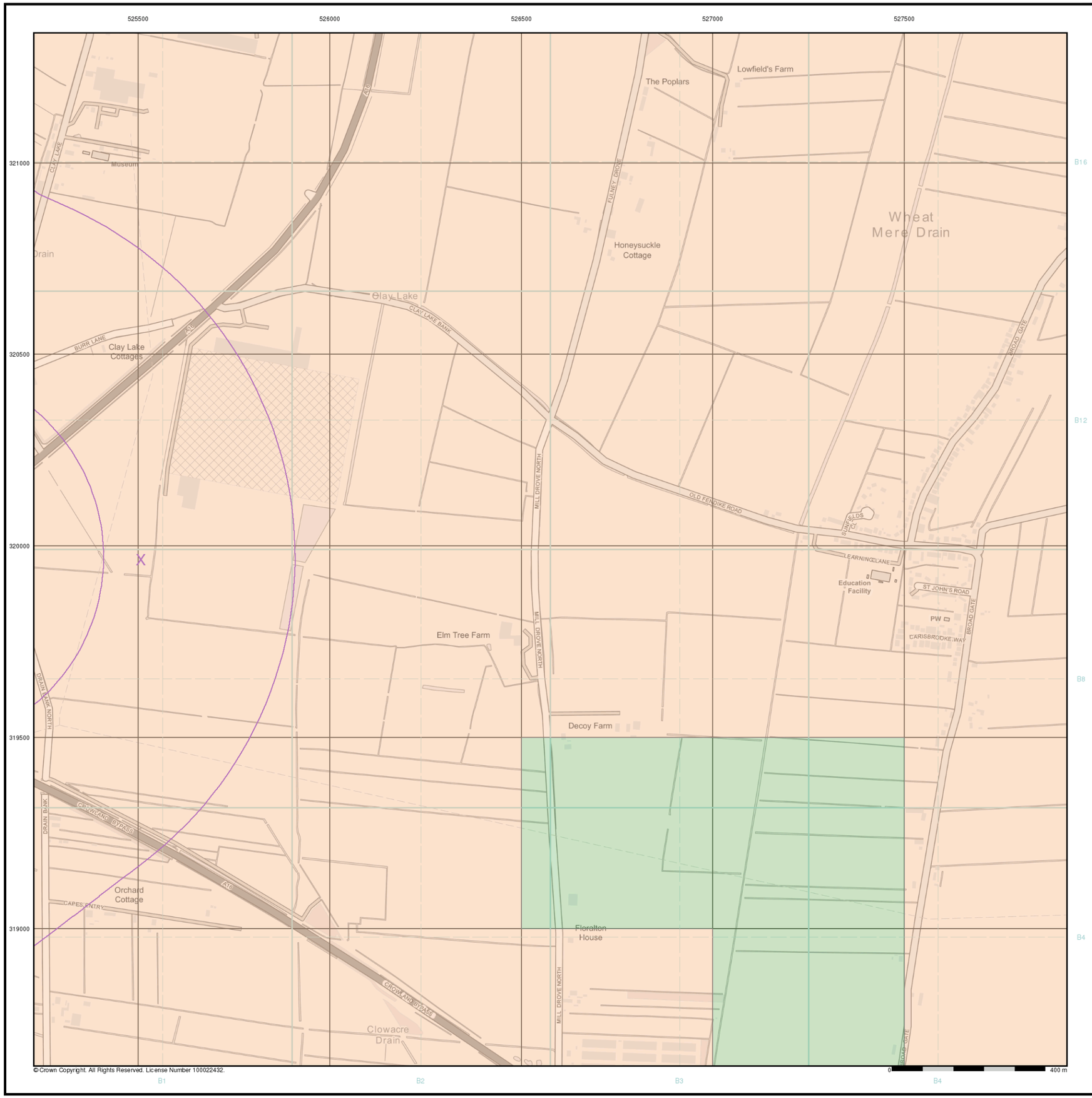
Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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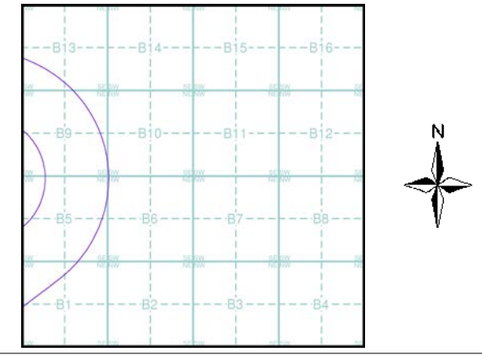
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

Estimated Soil Chemistry Lead - Slice B



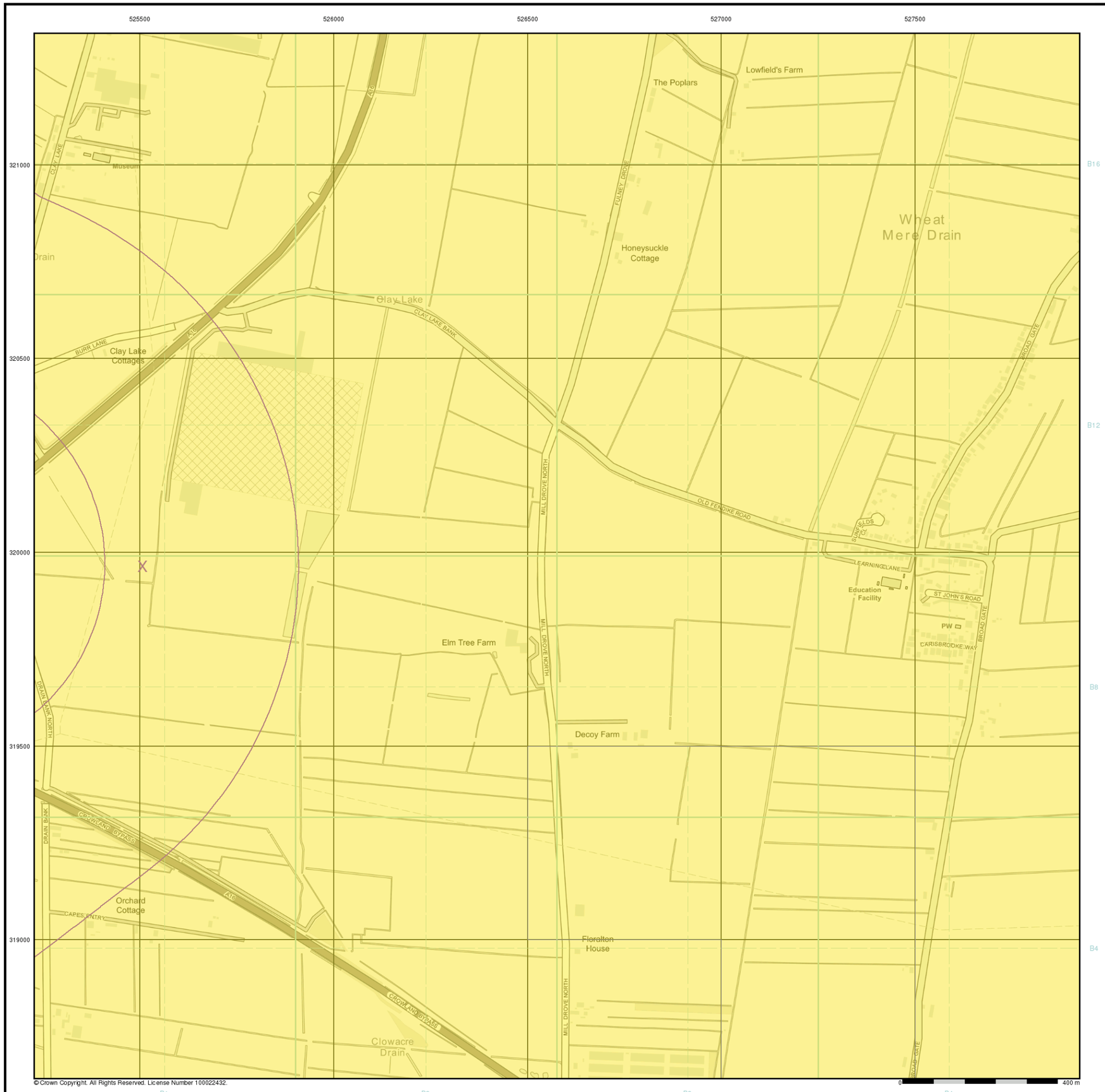
Order Details

Order Details:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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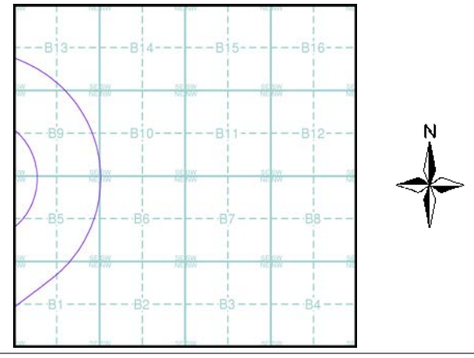
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice B



Order Details

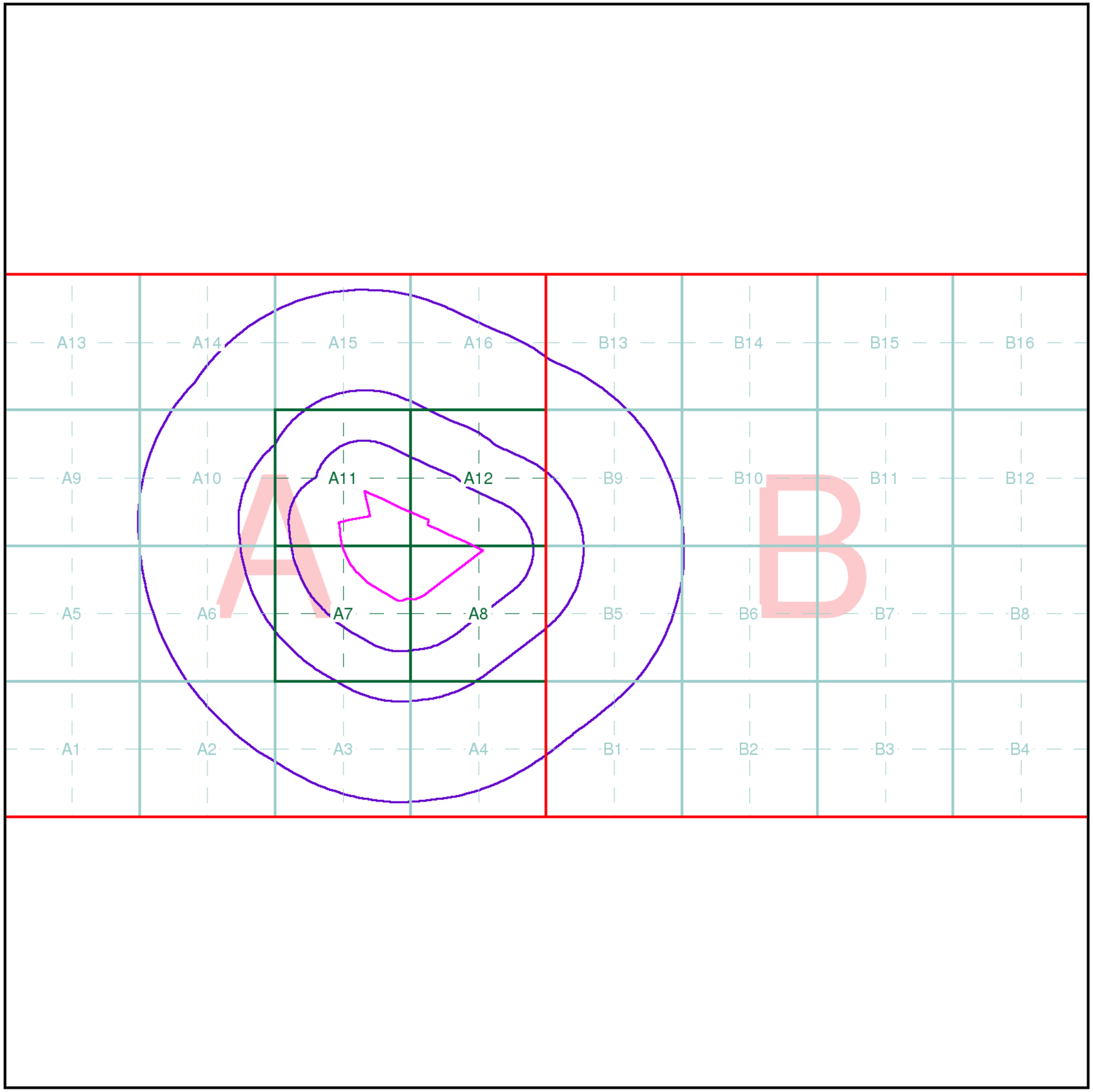
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Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
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Index Map

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

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

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

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

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mrs K Betson, Eastwood & Partners Ltd, St Andrews House, 23 Kingfield Road, Sheffield, S11 9AS

Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	524500, 319970
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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http://www.landmarkinfo.co.uk/Terms/Show/515

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

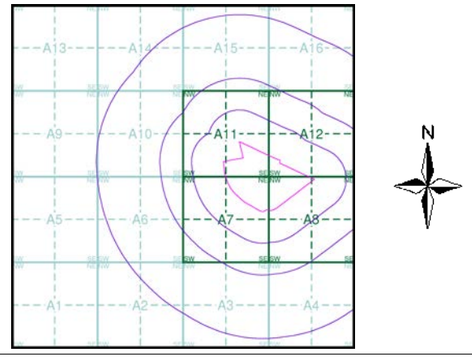
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887 - 1888	2
Lincolnshire	1:10,560	1906	3
Lincolnshire	1:10,560	1906	4
Lincolnshire	1:10,560	1932	5
Lincolnshire	1:10,560	1938 - 1952	6
Ordnance Survey Plan	1:10,000	1958 - 1959	7
Ordnance Survey Plan	1:10,000	1968	8
Ordnance Survey Plan	1:10,000	1971 - 1979	9
Ordnance Survey Plan	1:10,000	1982 - 1989	10
Ordnance Survey Plan	1:10,000	1991 - 1992	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2021	14

Historical Map - Slice A



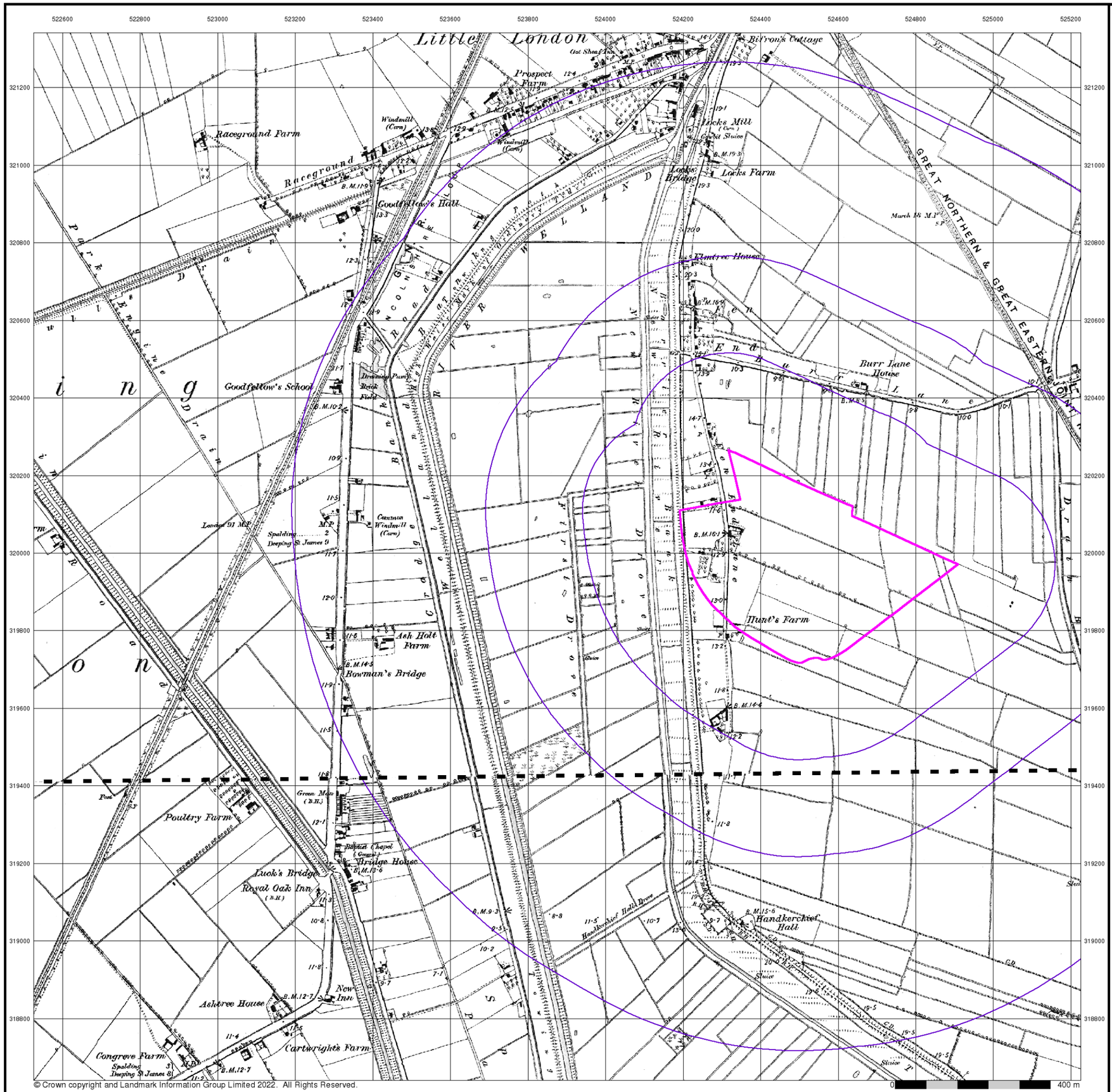
Order Details

Order Number: 293435682_1_1
Customer Ref: 46934
National Grid Reference: 524300, 320000
Slice: A
Site Area (Ha): 21.11
Search Buffer (m): 1000

Site Details

Site at 524540, 319980

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Lincolnshire

Published 1887 - 1888

Source map scale - 1:10,560

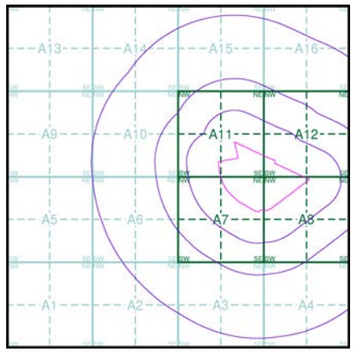
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

142NW
1888
1:10,560

142SW
1887
1:10,560

Historical Map - Slice A



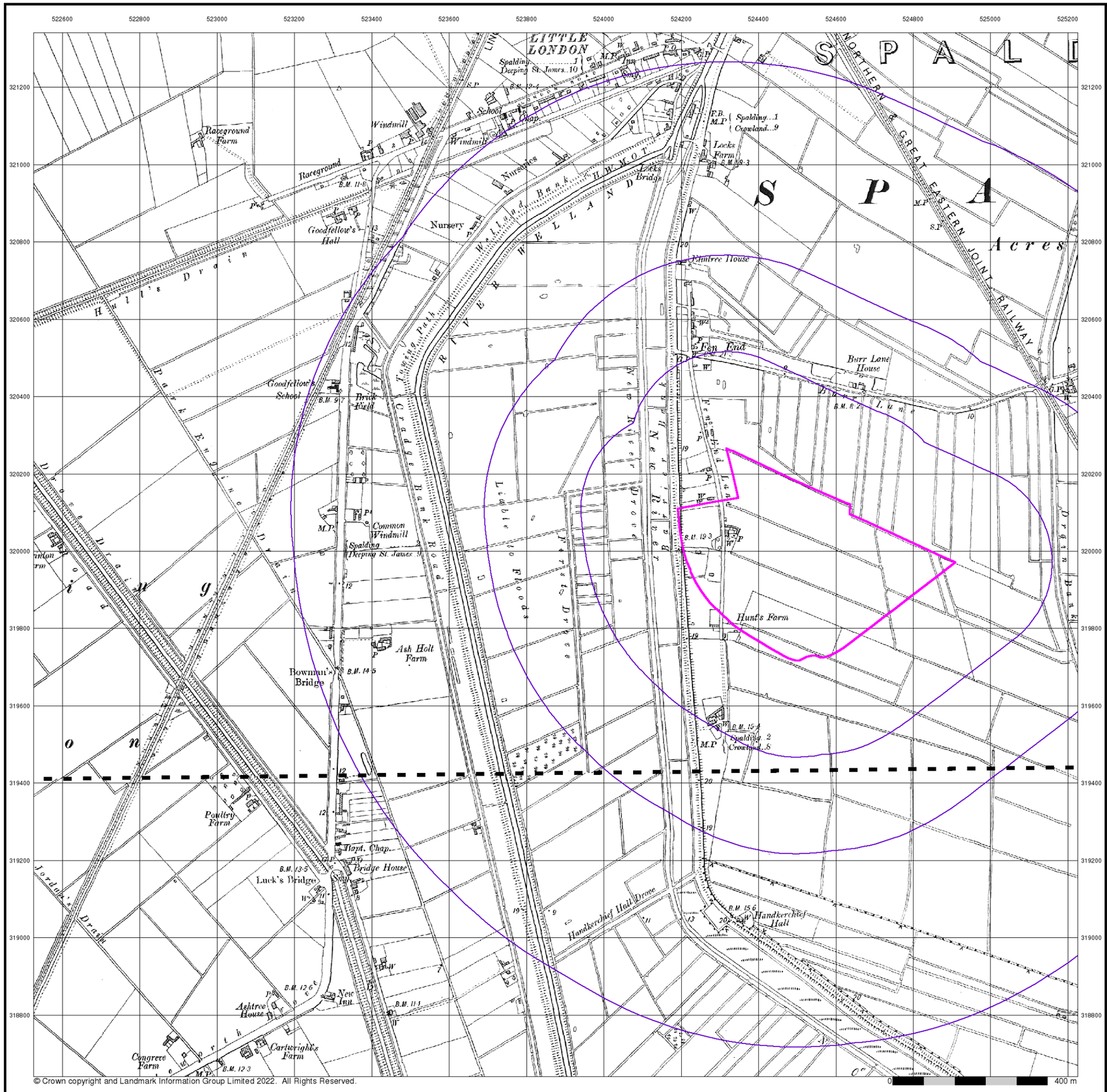
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Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Lincolnshire

Published 1906

Source map scale - 1:10,560

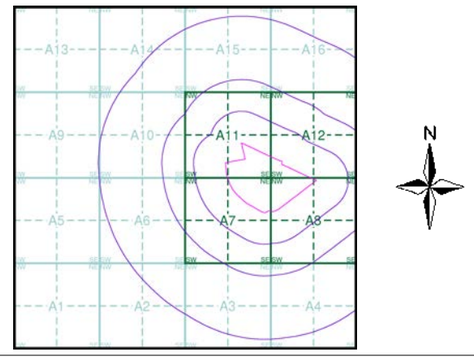
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Map Name(s) and Date(s)

142NW
1906
1:10,560

142SW
1906
1:10,560

Historical Map - Slice A



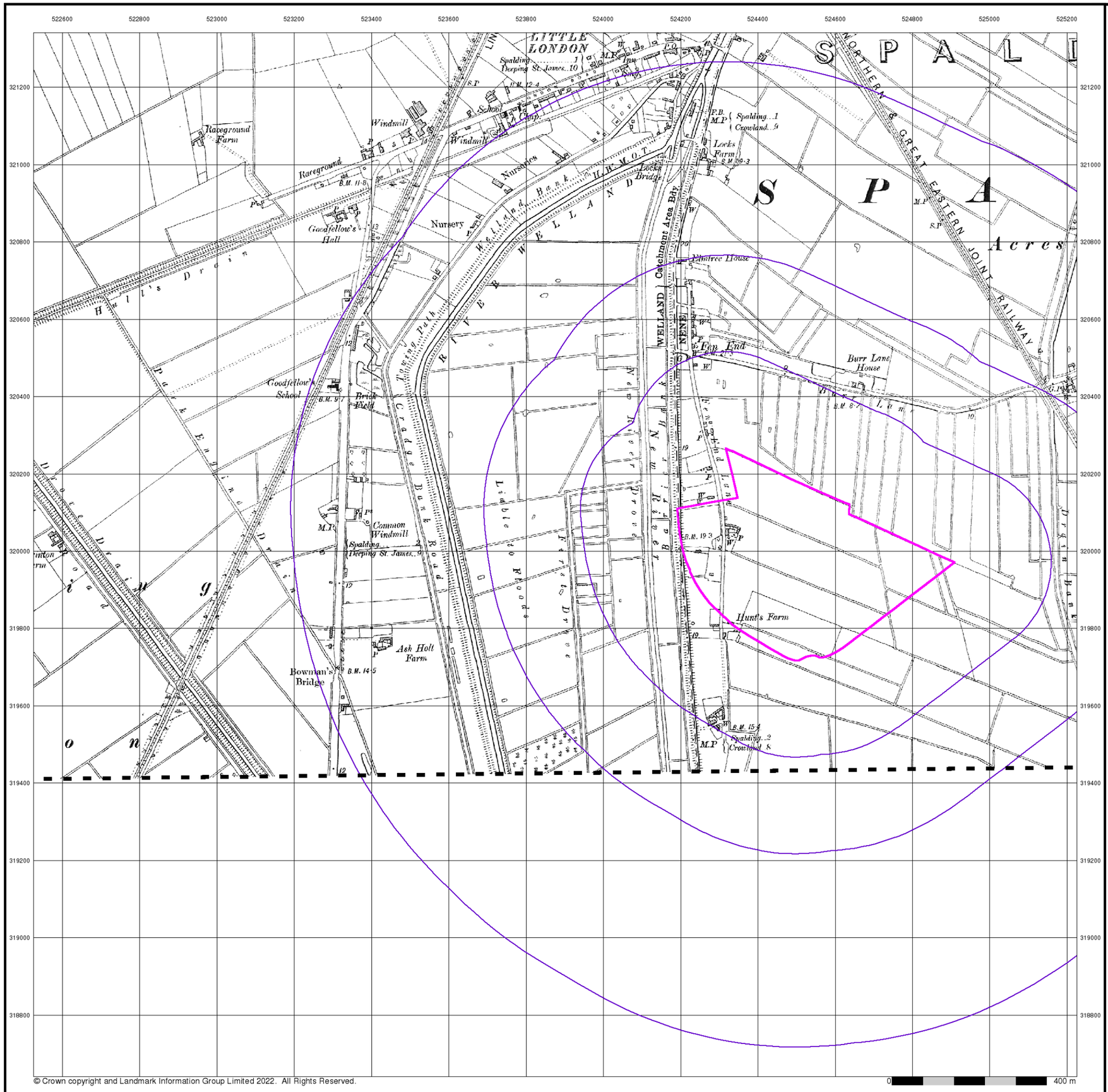
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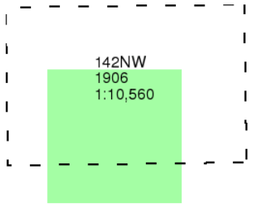
Lincolnshire

Published 1906

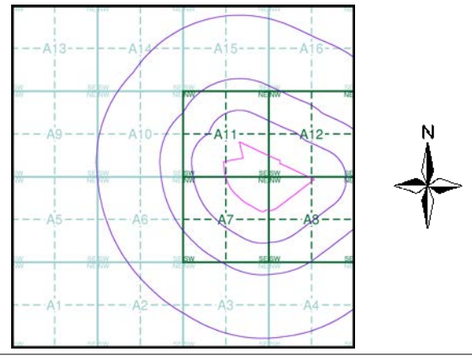
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

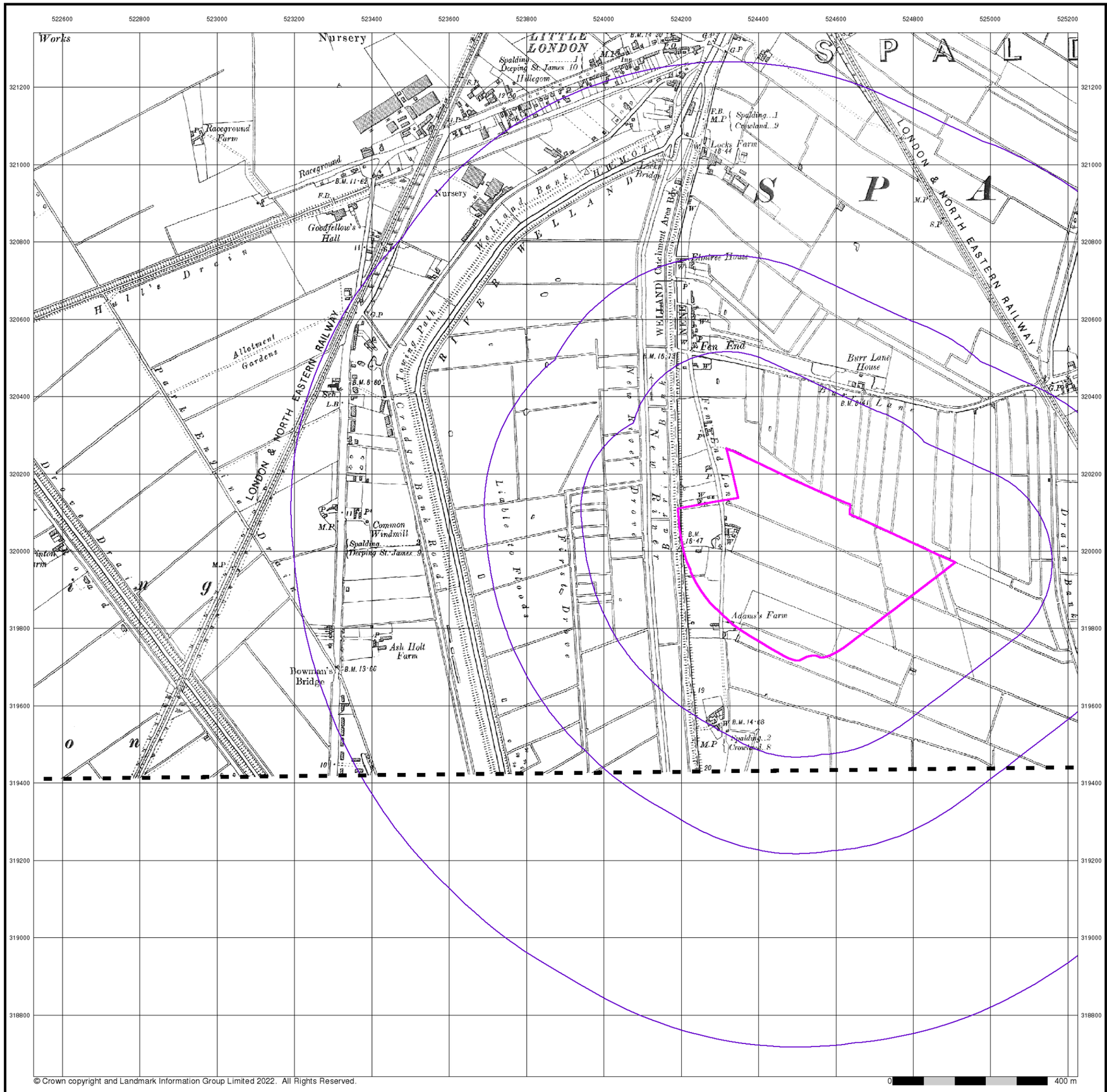
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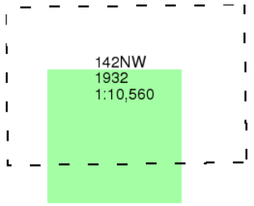
Lincolnshire

Published 1932

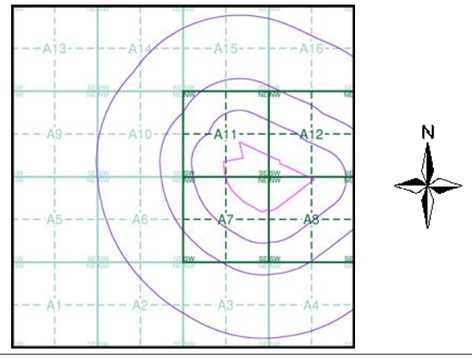
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

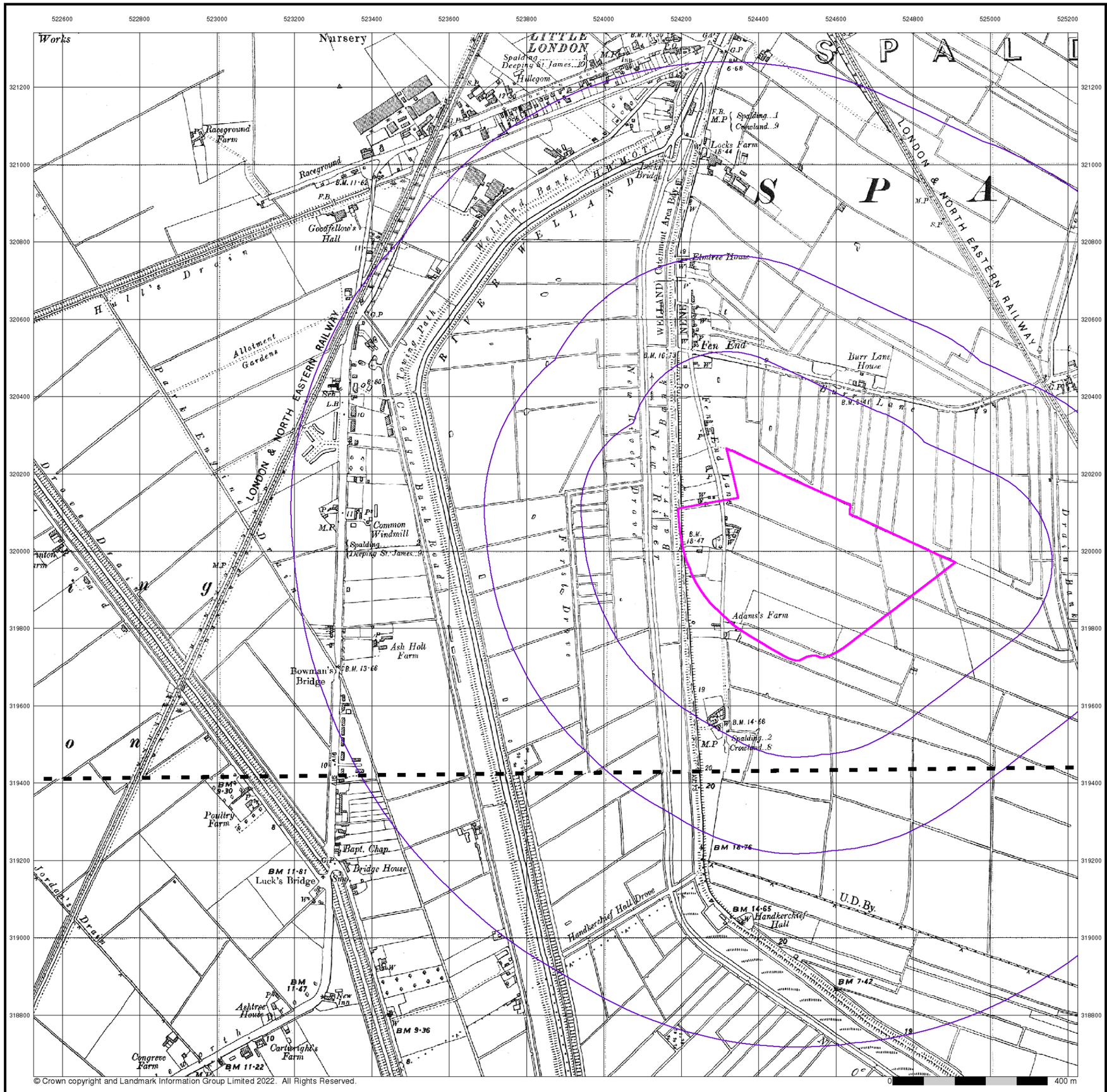
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Lincolnshire

Published 1938 - 1952

Source map scale - 1:10,560

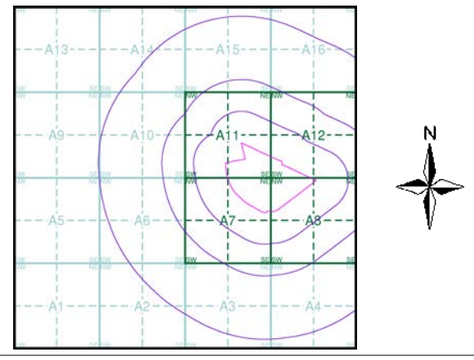
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Map Name(s) and Date(s)

142NW
1938
1:10,560

142SW
1952
1:10,560

Historical Map - Slice A



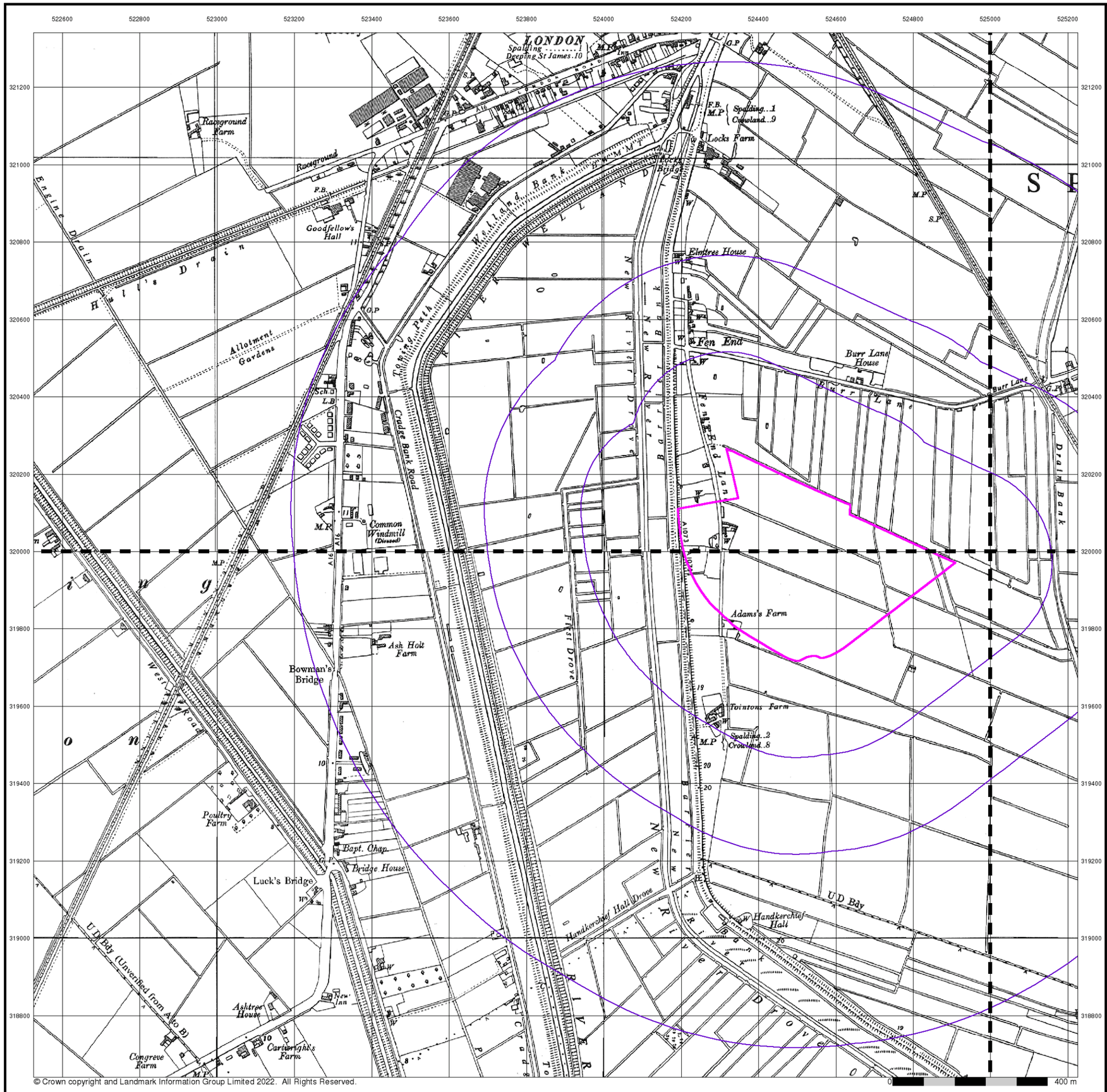
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Ordnance Survey Plan

Published 1958 - 1959

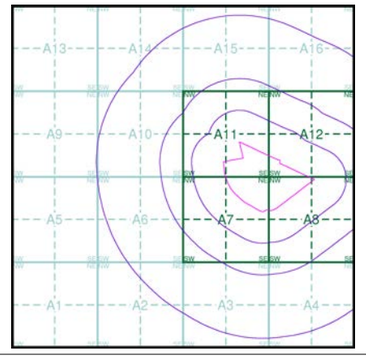
Source map scale - 1:10,000

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)

TF22SW 1959 1:10,560	TF22SE 1958 1:10,560
TF21NW 1958 1:10,560	TF21NE 1959 1:10,560

Historical Map - Slice A



Order Details

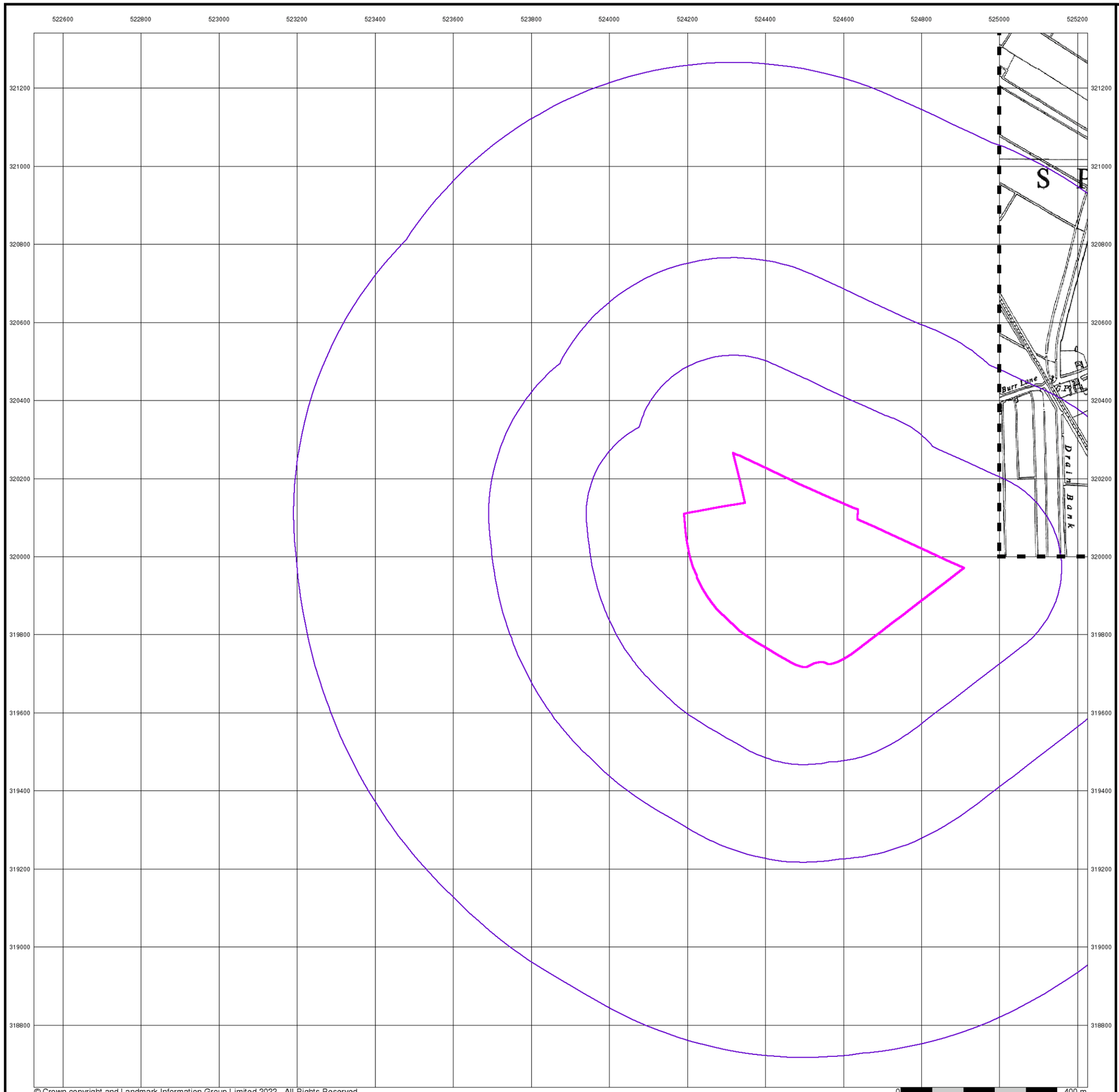
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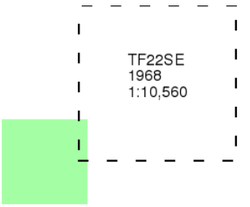
Ordnance Survey Plan

Published 1968

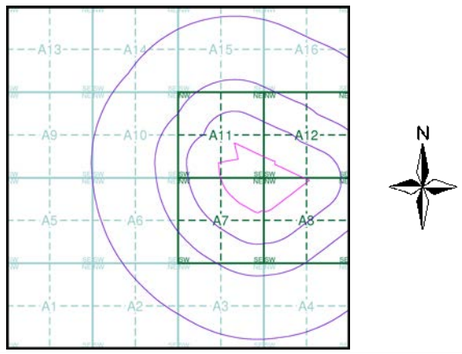
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

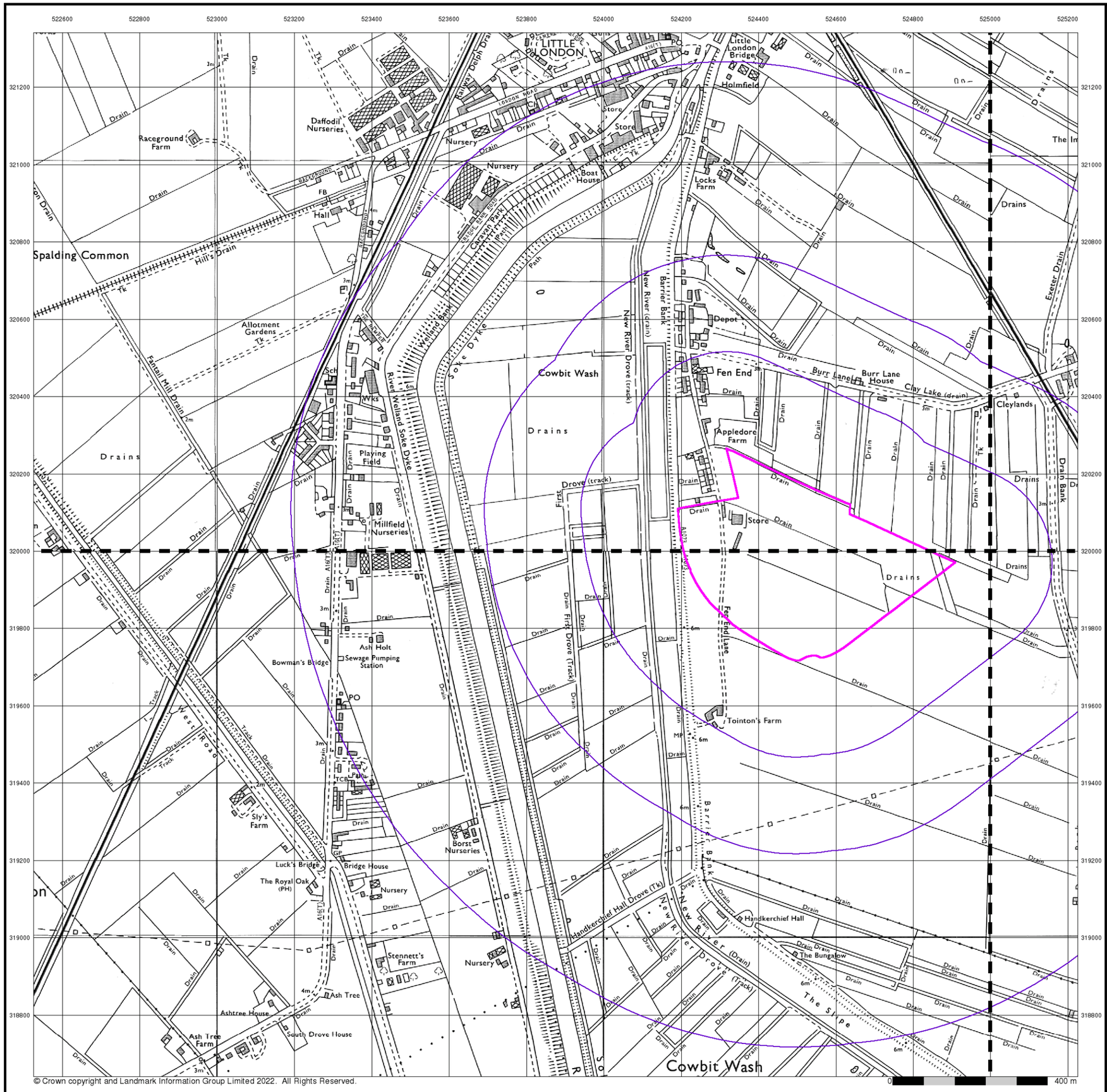
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Ordnance Survey Plan

Published 1971 - 1979

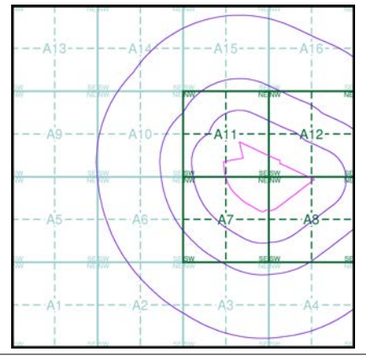
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Map Name(s) and Date(s)

TF22SW 1971 1:10,000	TF22SE 1971 1:10,000
TF21NW 1979 1:10,000	TF21NE 1979 1:10,000

Historical Map - Slice A



Order Details

Order Number:	293435682_1_1
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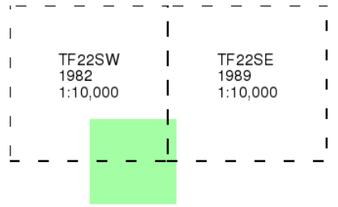
Ordnance Survey Plan

Published 1982 - 1989

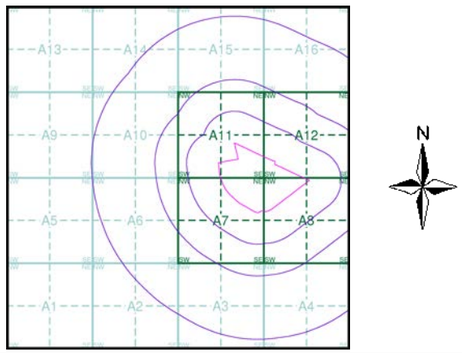
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
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Site Area (Ha):	21.11
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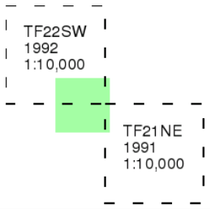
Ordnance Survey Plan

Published 1991 - 1992

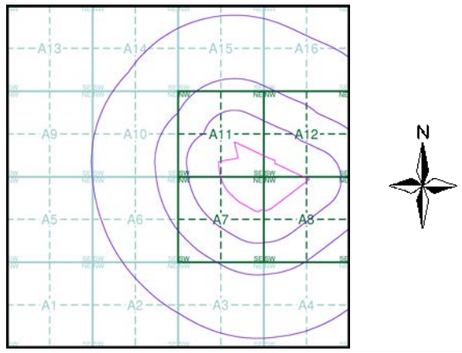
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

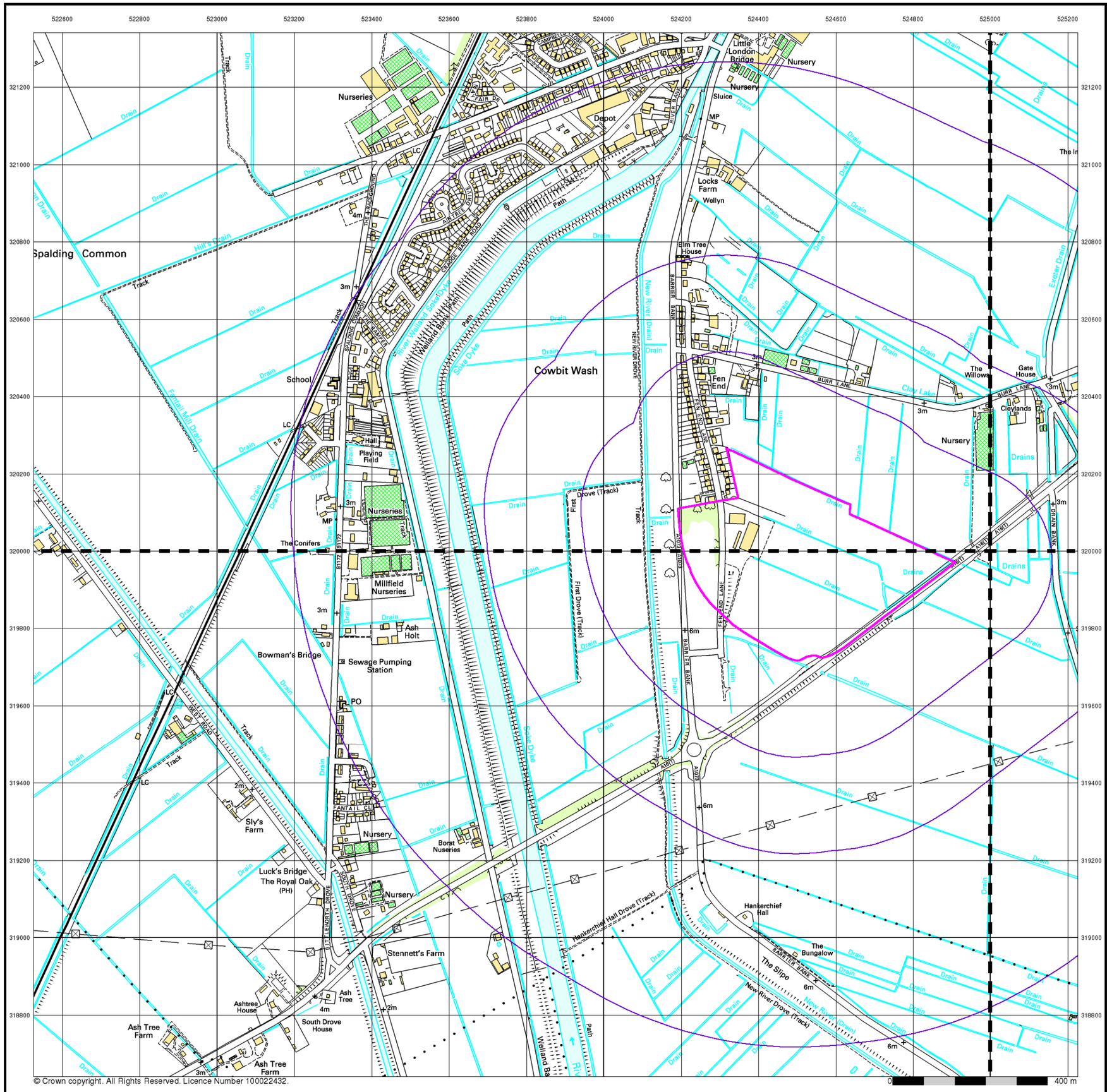
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10k Raster Mapping

Published 2000

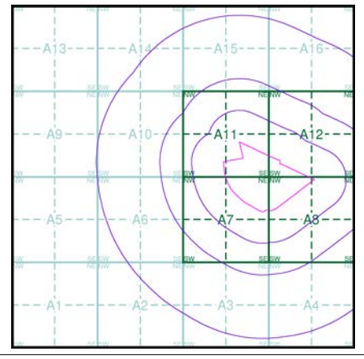
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TF22SW 2000 1:10,000	TF22SE 2000 1:10,000
TF21NW 2000 1:10,000	TF21NE 2000 1:10,000

Historical Map - Slice A



Order Details

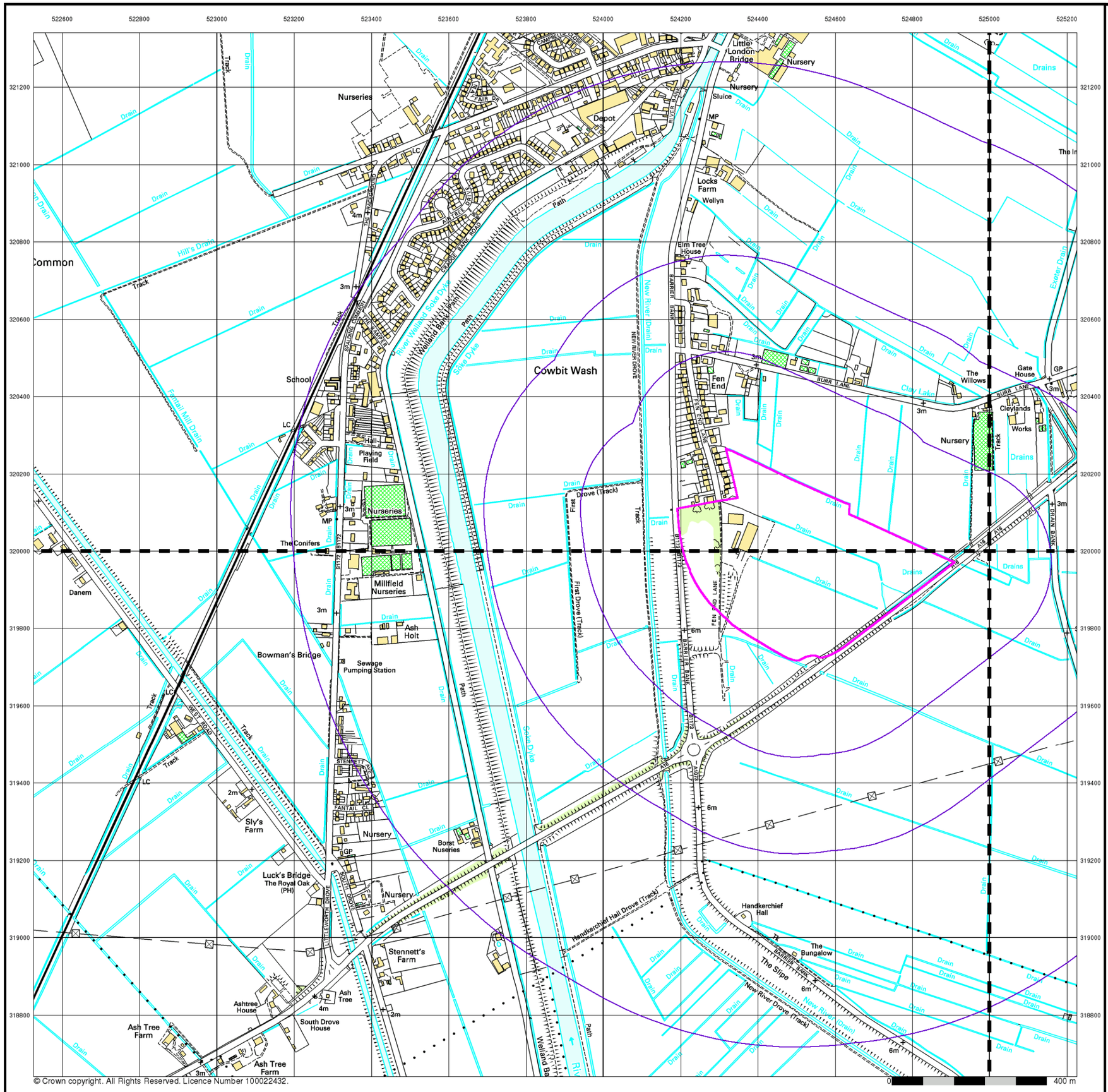
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10k Raster Mapping

Published 2006

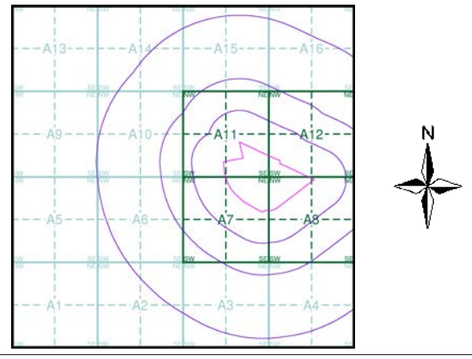
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Map Name(s) and Date(s)

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TF21NW 2006 1:10,000	TF21NE 2006 1:10,000

Historical Map - Slice A



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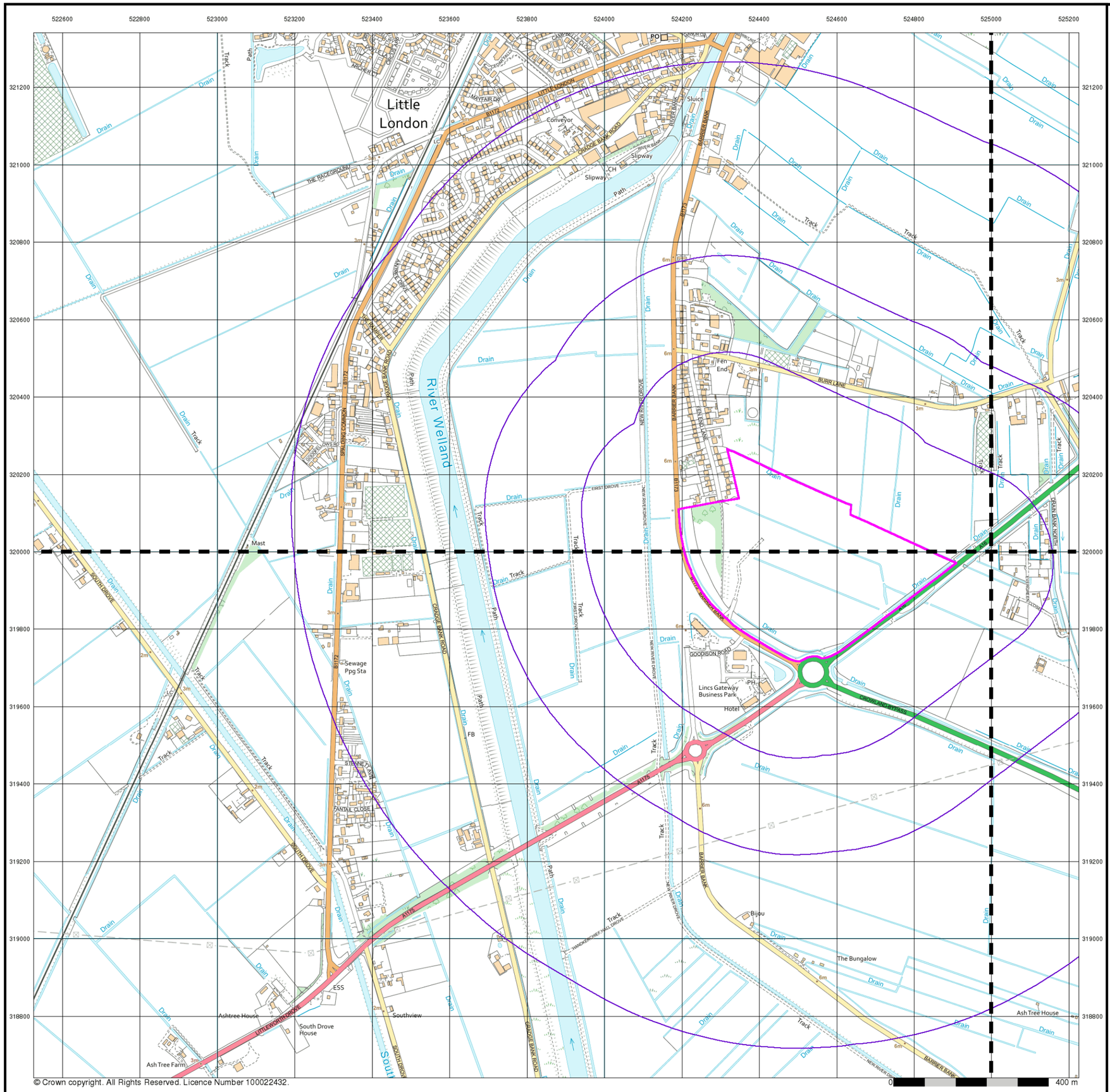
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National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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VectorMap Local

Published 2021

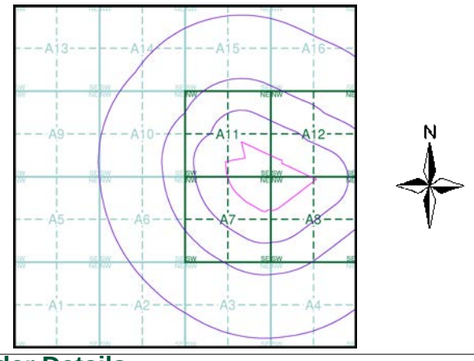
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TF22SW 2021 Variable	TF22SE 2021 Variable
TF21NW 2021 Variable	TF21NE 2021 Variable

Historical Map - Slice A



Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

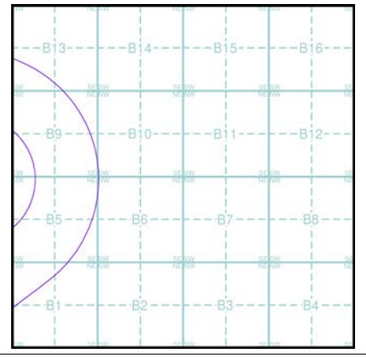
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887 - 1888	2
Lincolnshire	1:10,560	1906	3
Lincolnshire	1:10,560	1906	4
Lincolnshire	1:10,560	1932	5
Lincolnshire	1:10,560	1938 - 1952	6
Lincolnshire	1:10,560	1951 - 1952	7
Ordnance Survey Plan	1:10,000	1958 - 1959	8
Ordnance Survey Plan	1:10,000	1968	9
Ordnance Survey Plan	1:10,000	1971 - 1979	10
Ordnance Survey Plan	1:10,000	1989	11
Ordnance Survey Plan	1:10,000	1991	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2021	15

Historical Map - Slice B



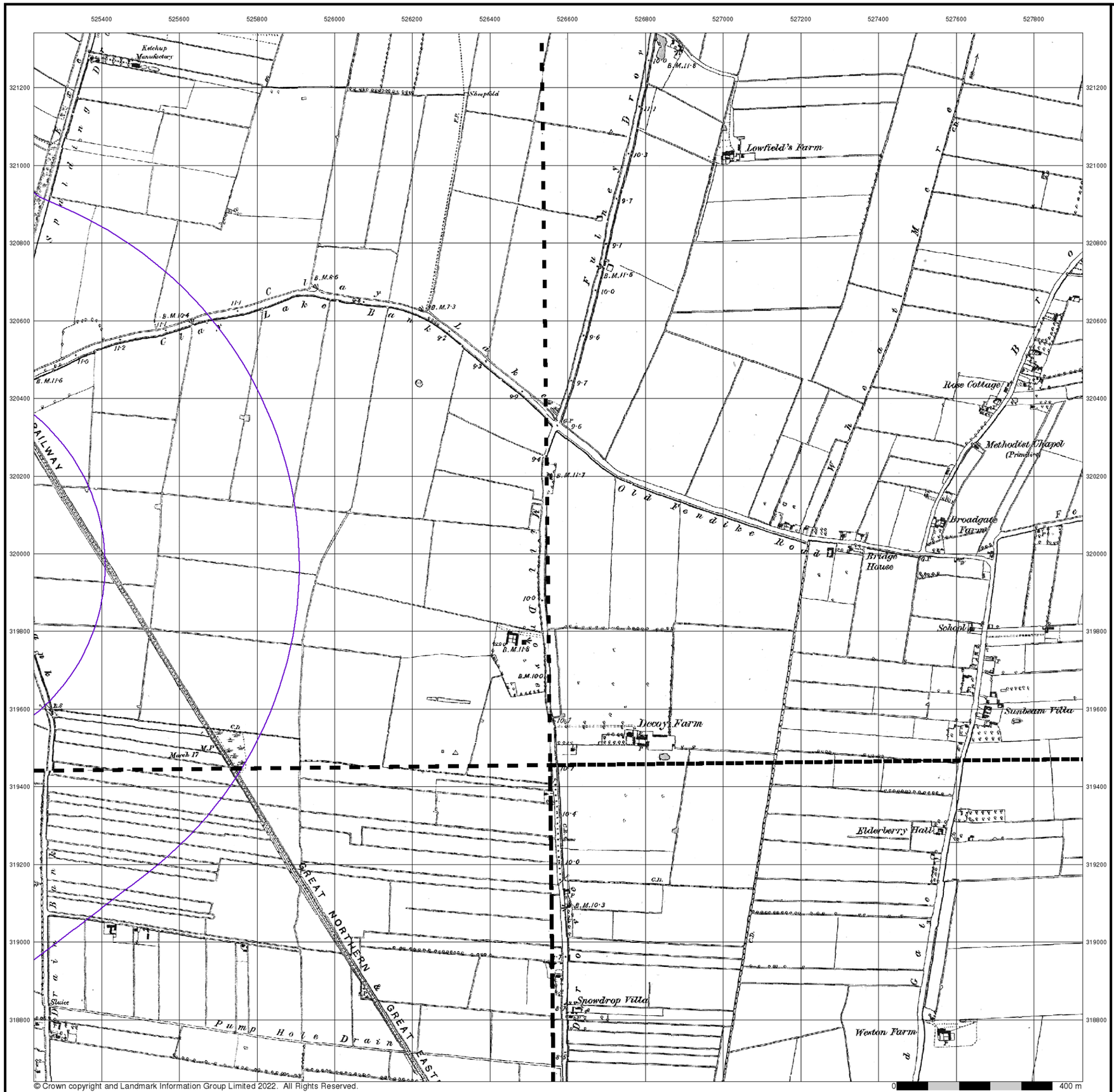
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Order Number: 293435682_1_1
Customer Ref: 46934
National Grid Reference: 525510, 319960
Slice: B
Site Area (Ha): 21.11
Search Buffer (m): 1000

Site Details

Site at 524540, 319980

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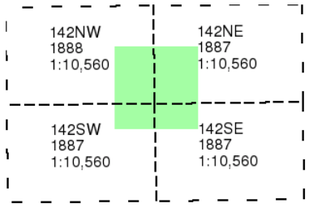
Lincolnshire

Published 1887 - 1888

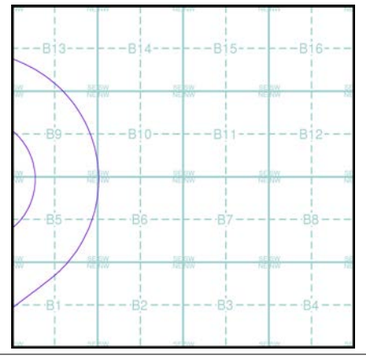
Source map scale - 1:10,560

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 B



Order Details

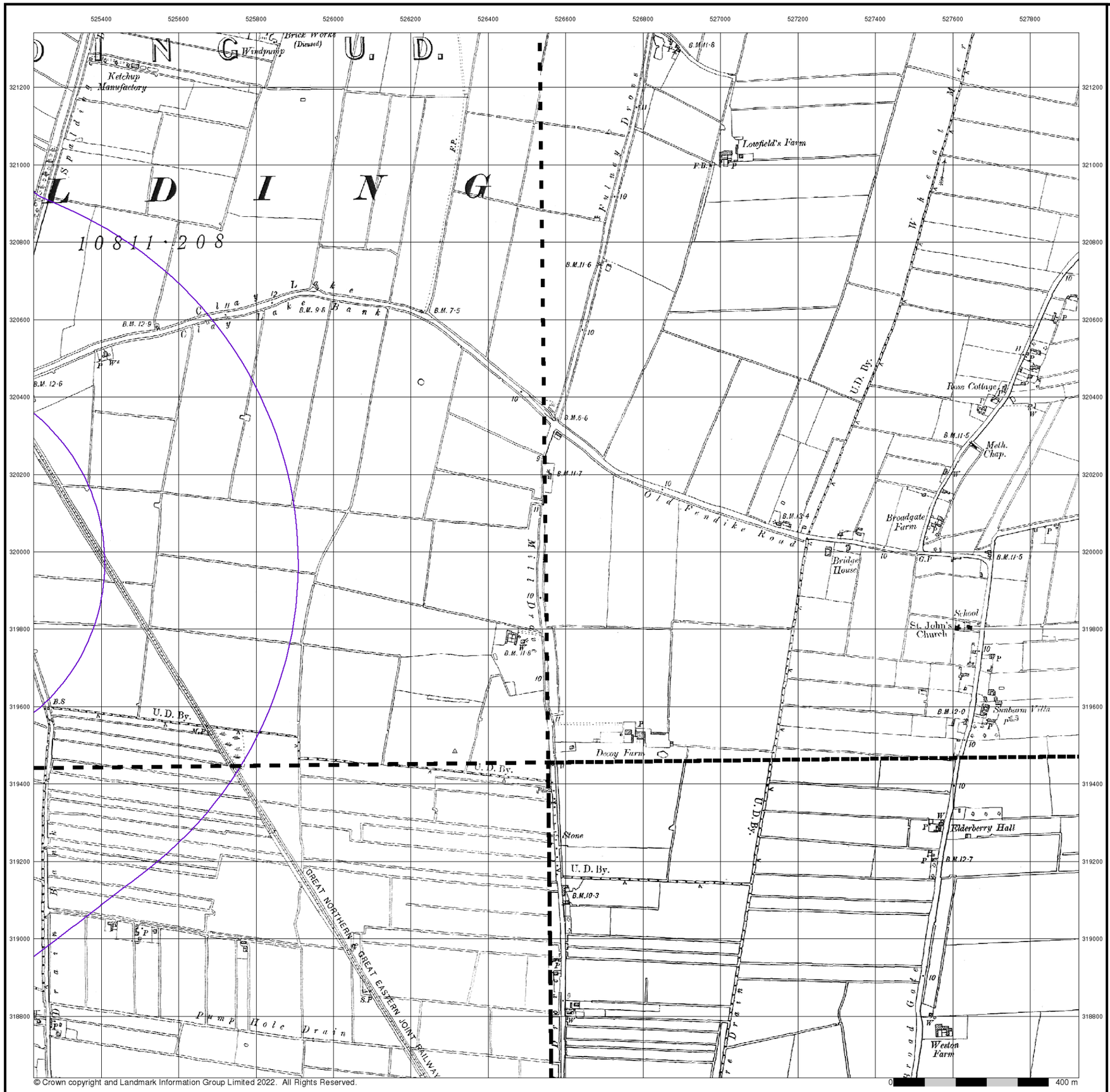
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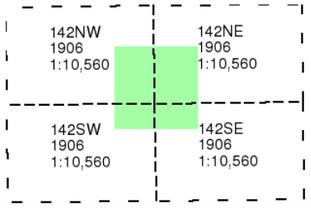
Lincolnshire

Published 1906

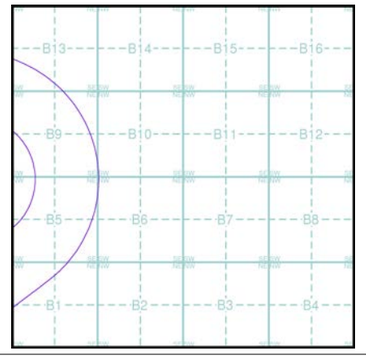
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

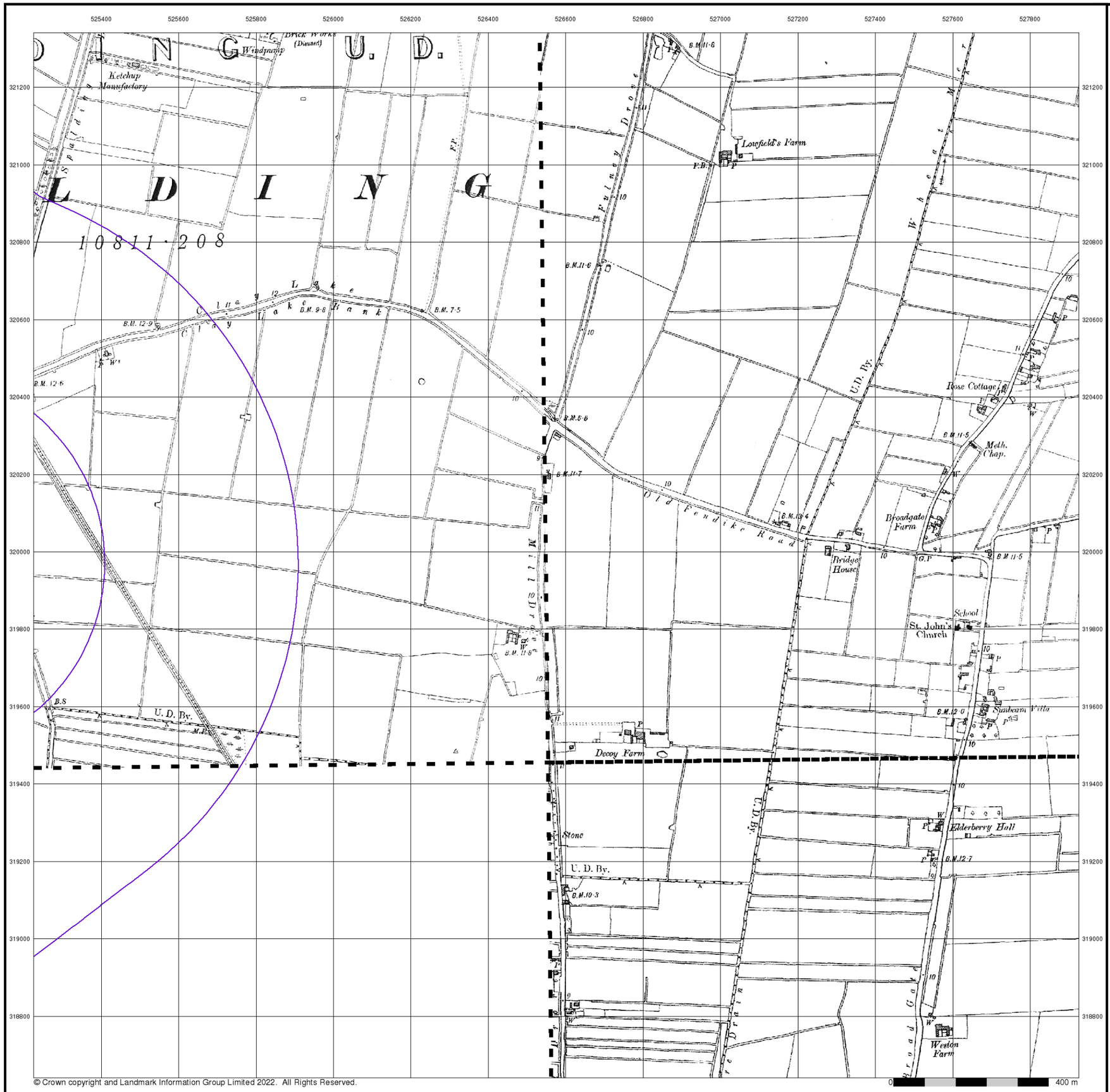
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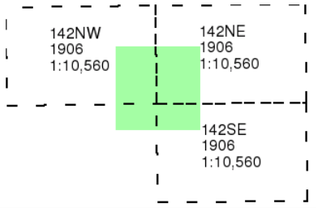
Lincolnshire

Published 1906

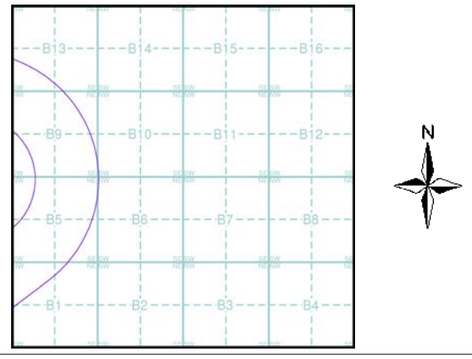
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

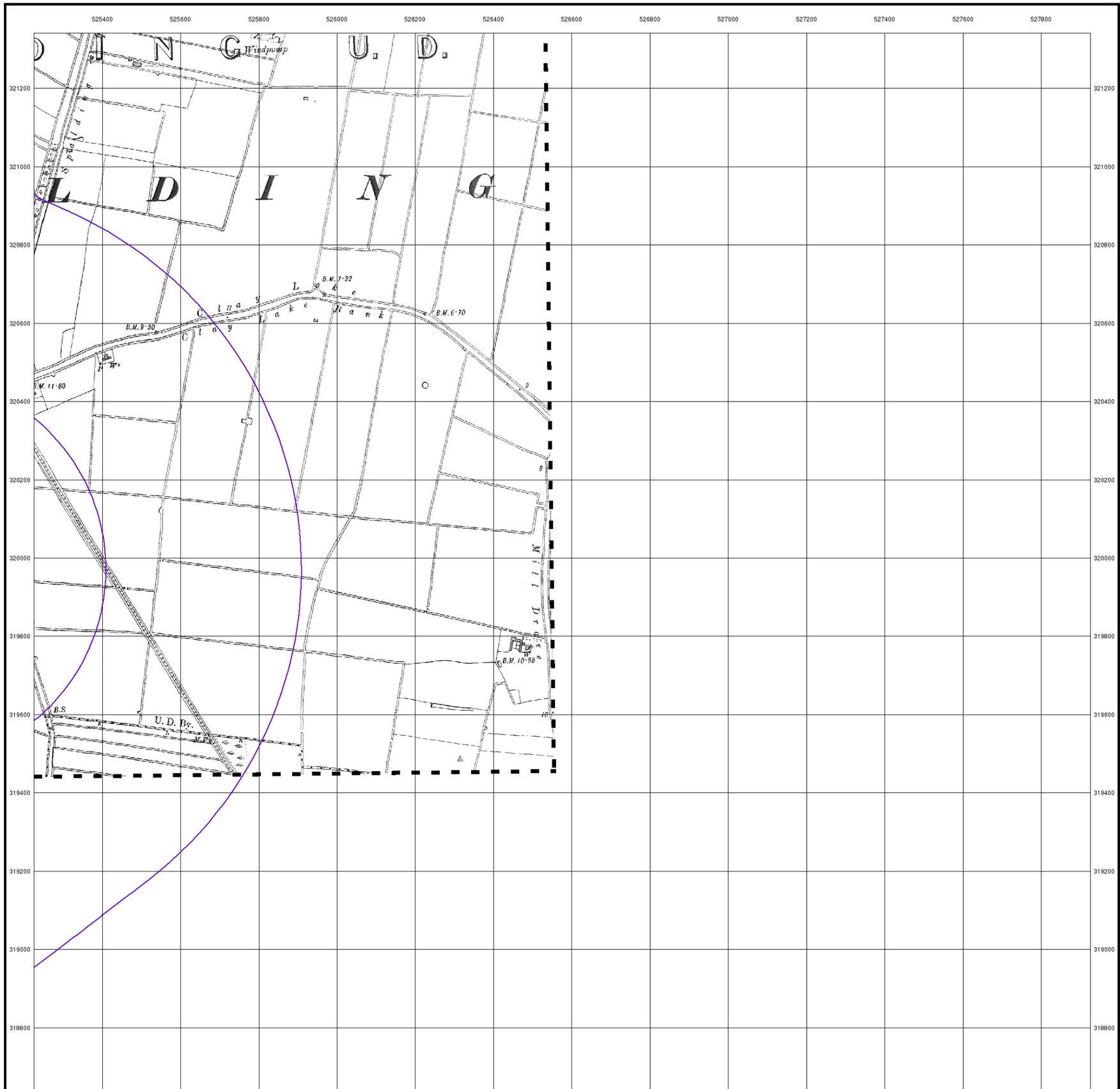
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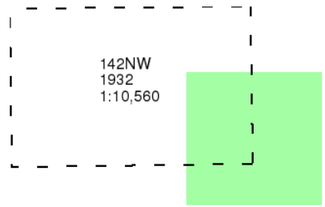
Lincolnshire

Published 1932

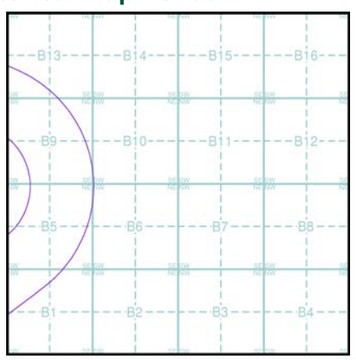
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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

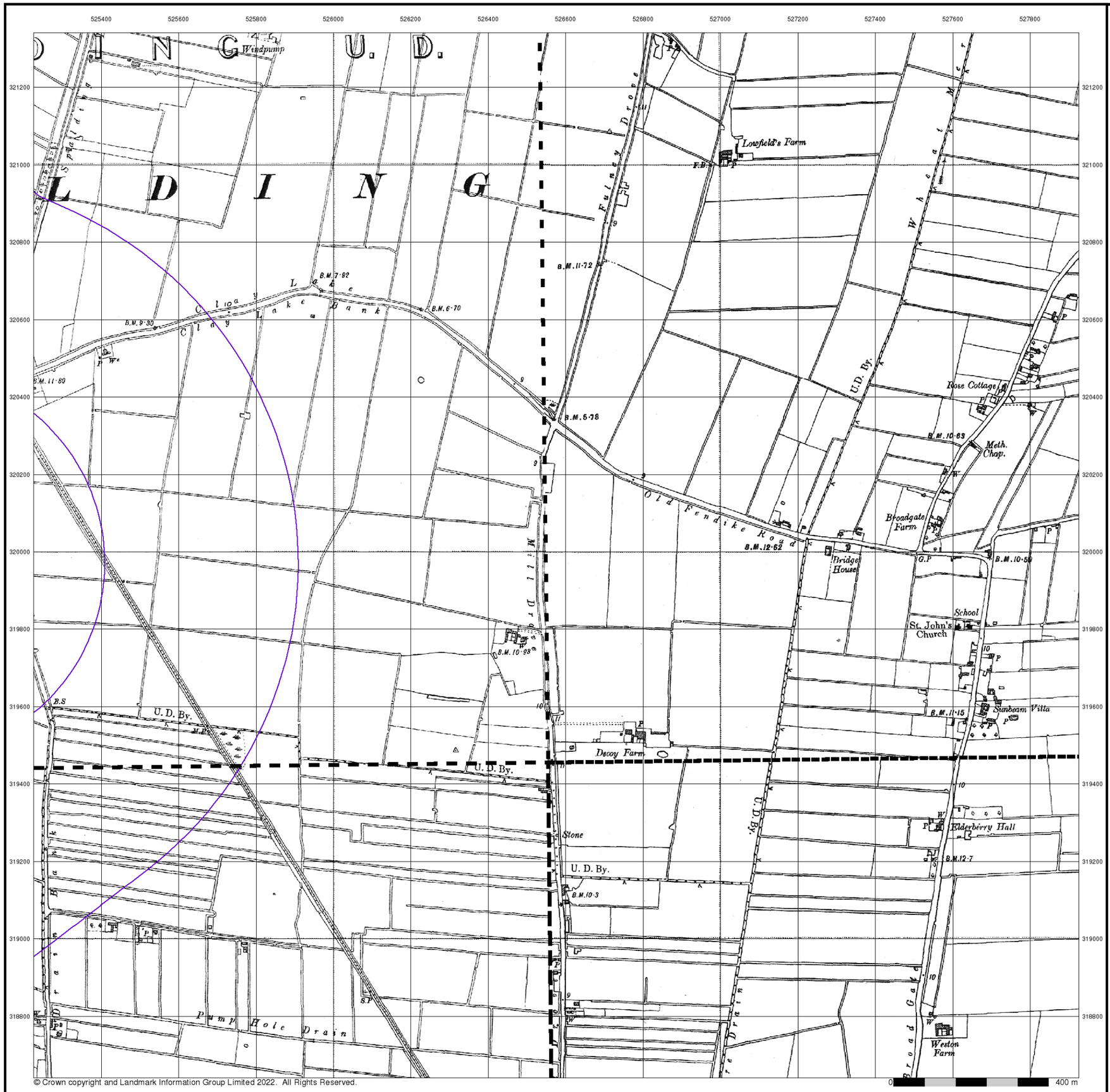
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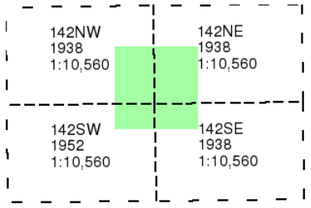
Lincolnshire

Published 1938 - 1952

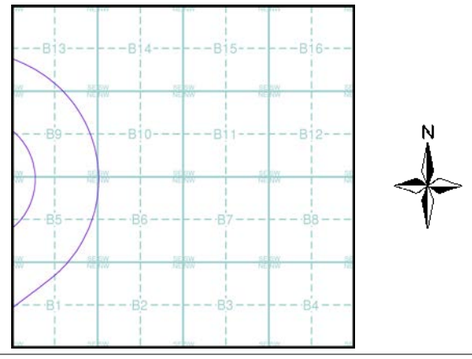
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	293435682_1_1
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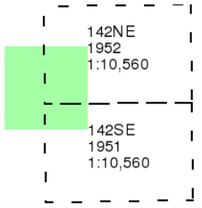
Lincolnshire

Published 1951 - 1952

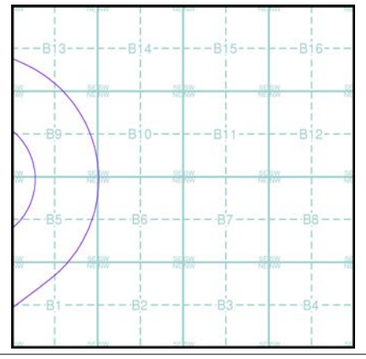
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

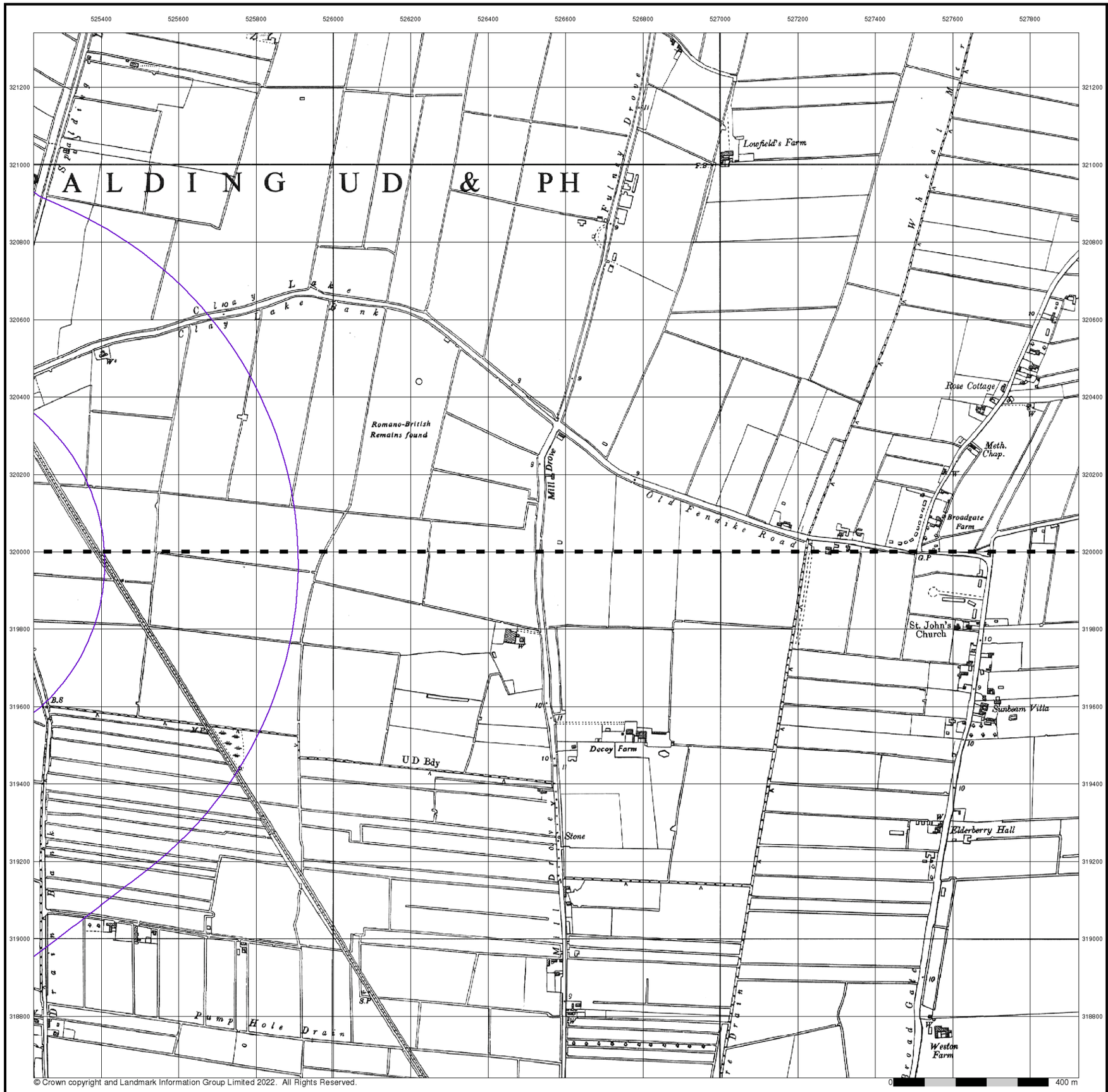
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Ordnance Survey Plan

Published 1958 - 1959

Source map scale - 1:10,000

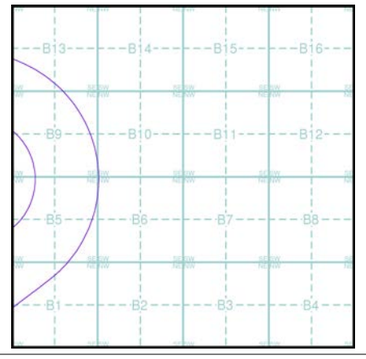
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

TF22SE
1958
1:10,560

TF21NE
1959
1:10,560

Historical Map - Slice B



Order Details

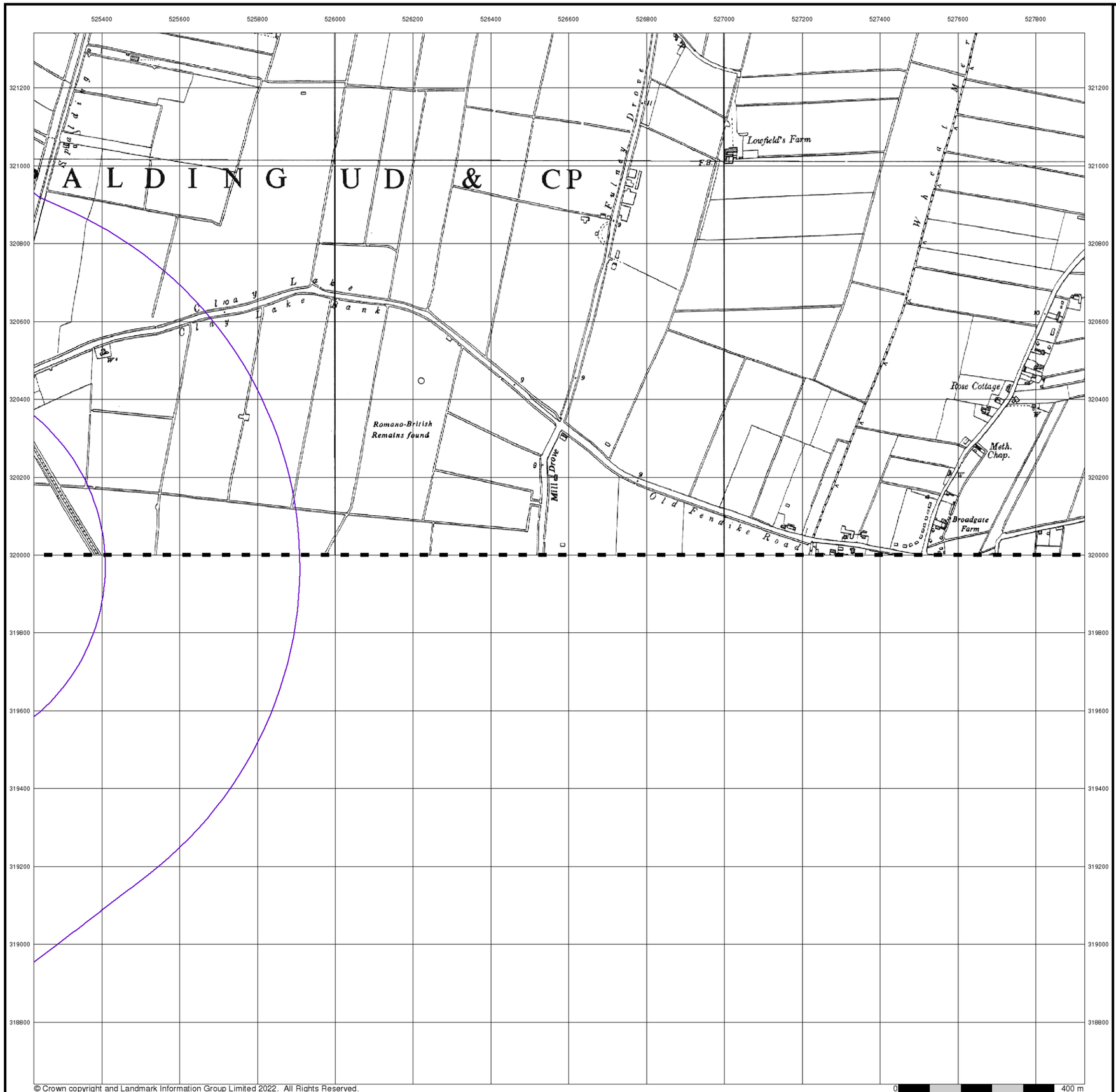
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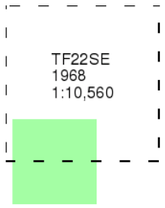
Ordnance Survey Plan

Published 1968

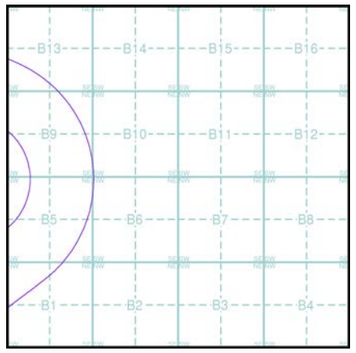
Source map scale - 1:10,000

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 B



Order Details

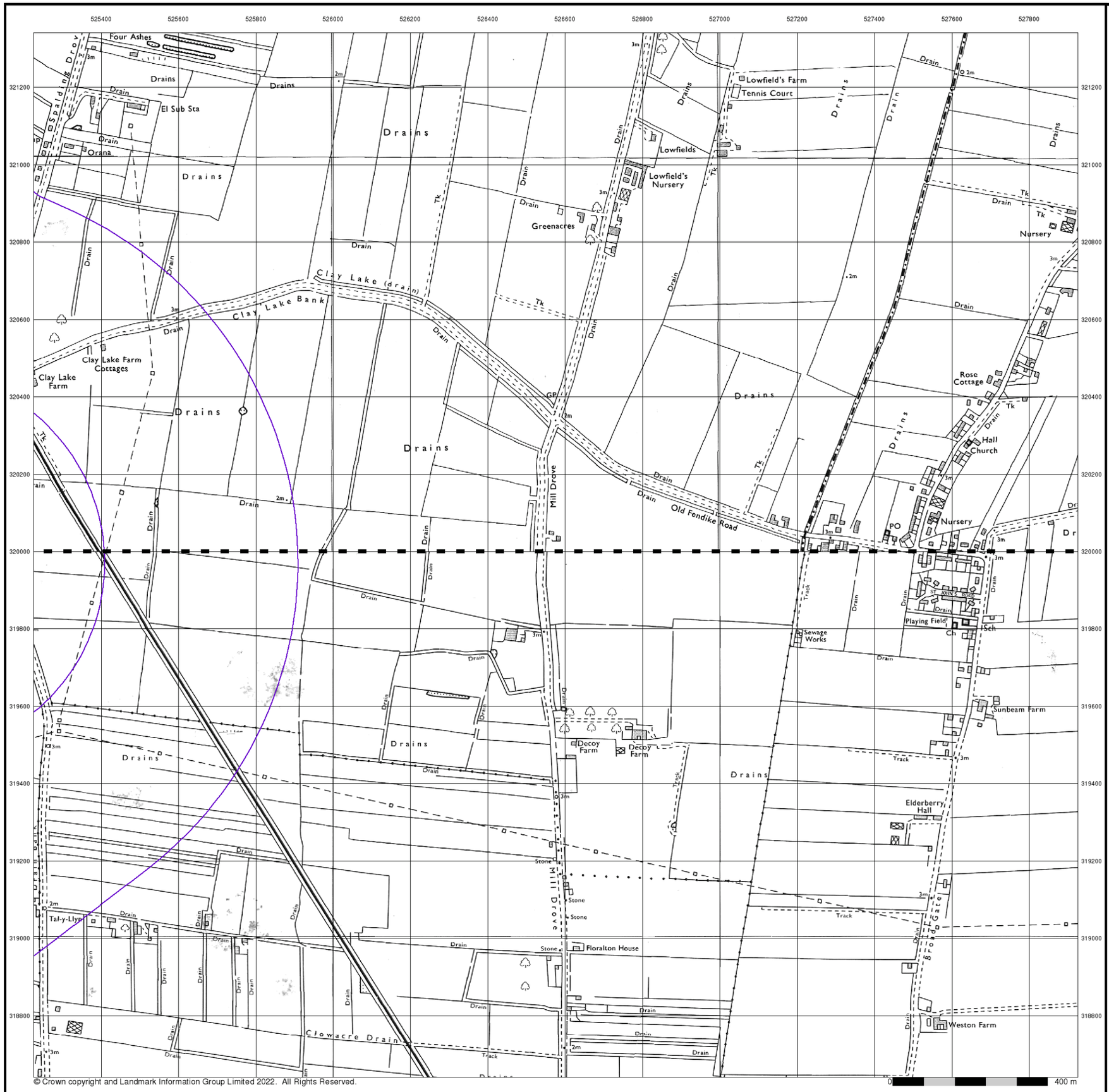
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Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

Site Details

Site at 524540, 319980

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Ordnance Survey Plan

Published 1971 - 1979

Source map scale - 1:10,000

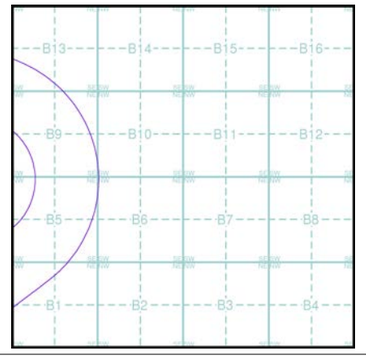
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

TF22SE
1971
1:10,000

TF21NE
1979
1:10,000

Historical Map - Slice B



Order Details

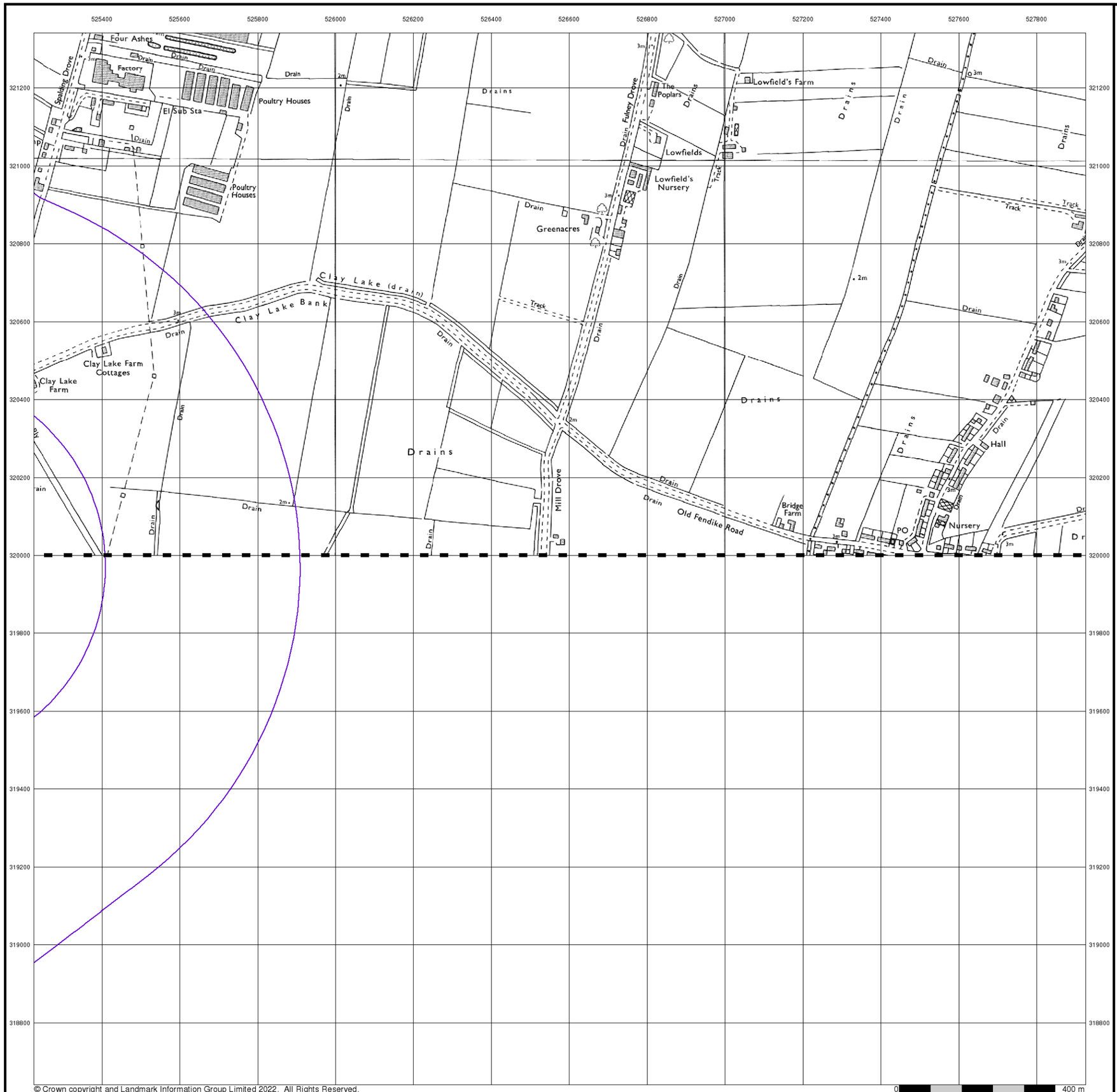
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Site Details

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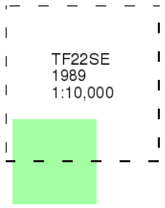
Ordnance Survey Plan

Published 1989

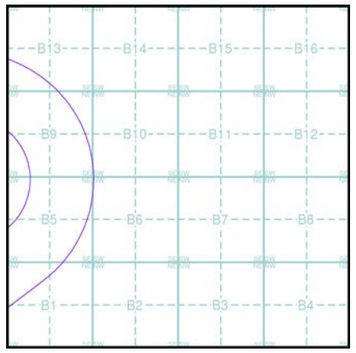
Source map scale - 1:10,000

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 B



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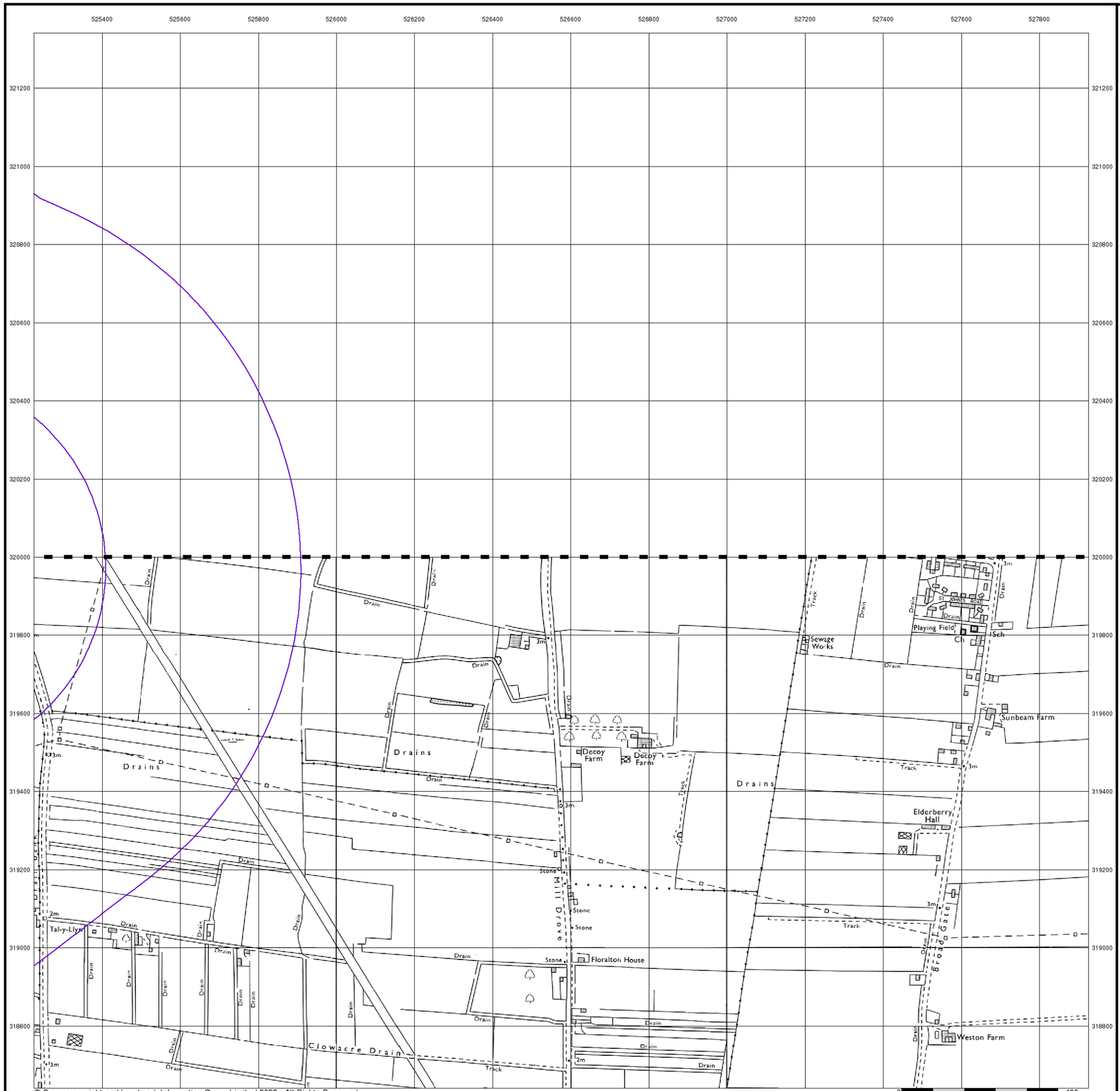
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National Grid Reference:	525510, 319960
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Site Area (Ha):	21.11
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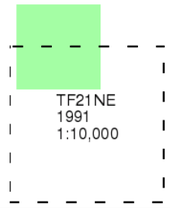
Ordnance Survey Plan

Published 1991

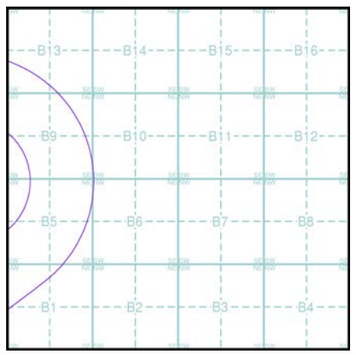
Source map scale - 1:10,000

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 B



Order Details

Order Number:	293435682_1_1
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Site Details

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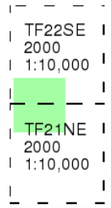
10k Raster Mapping

Published 2000

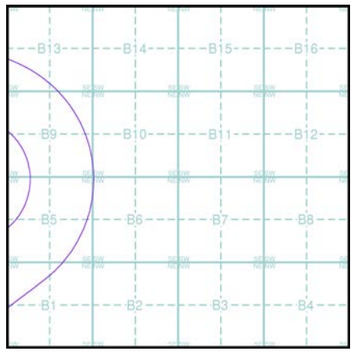
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	293435682_1_1
Customer Ref:	46934
National Grid Reference:	525510, 319960
Slice:	B
Site Area (Ha):	21.11
Search Buffer (m):	1000

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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

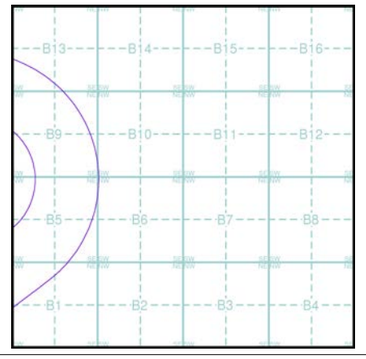
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

Map Name(s) and Date(s)

TF22SE
2006
1:10,000

TF21NE
2006
1:10,000

Historical Map - Slice B



Order Details

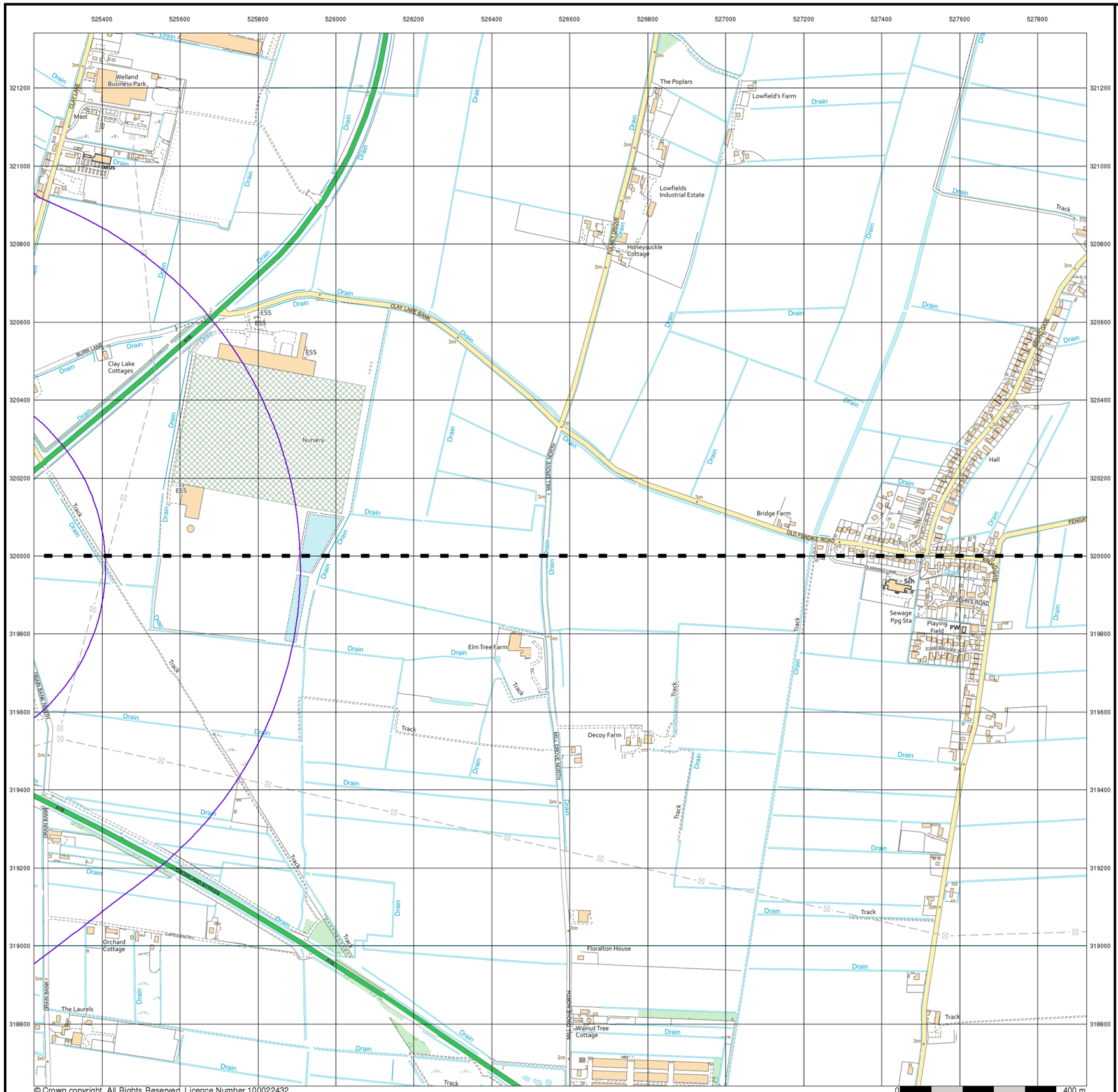
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National Grid Reference:	525510, 319960
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Site Area (Ha):	21.11
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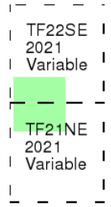
VectorMap Local

Published 2021

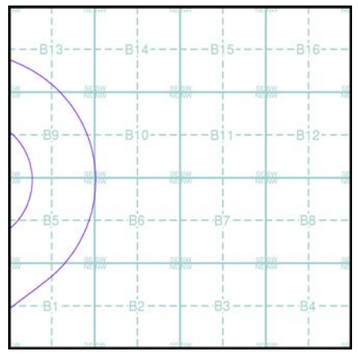
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	293435682_1_1
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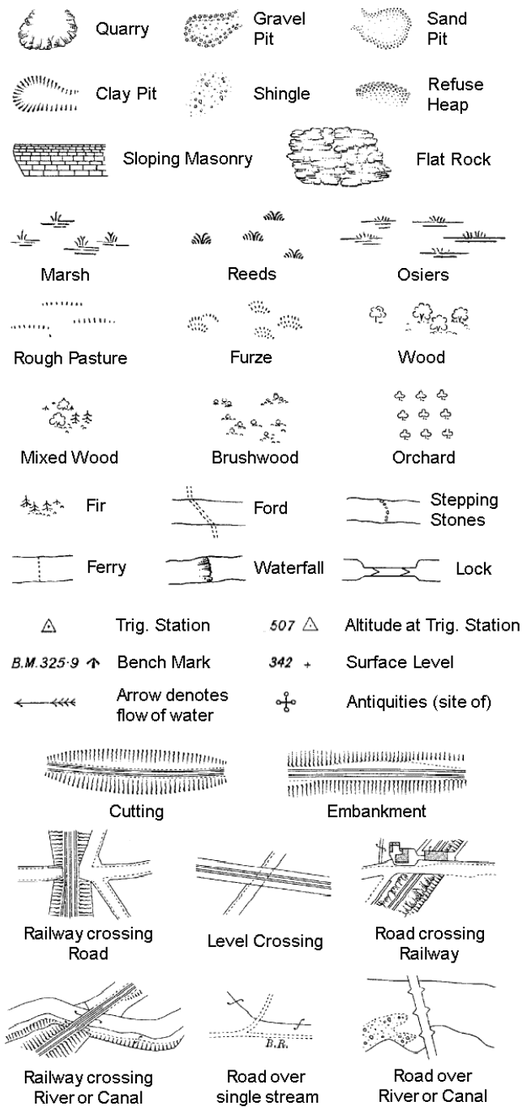
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Historical Mapping Legends

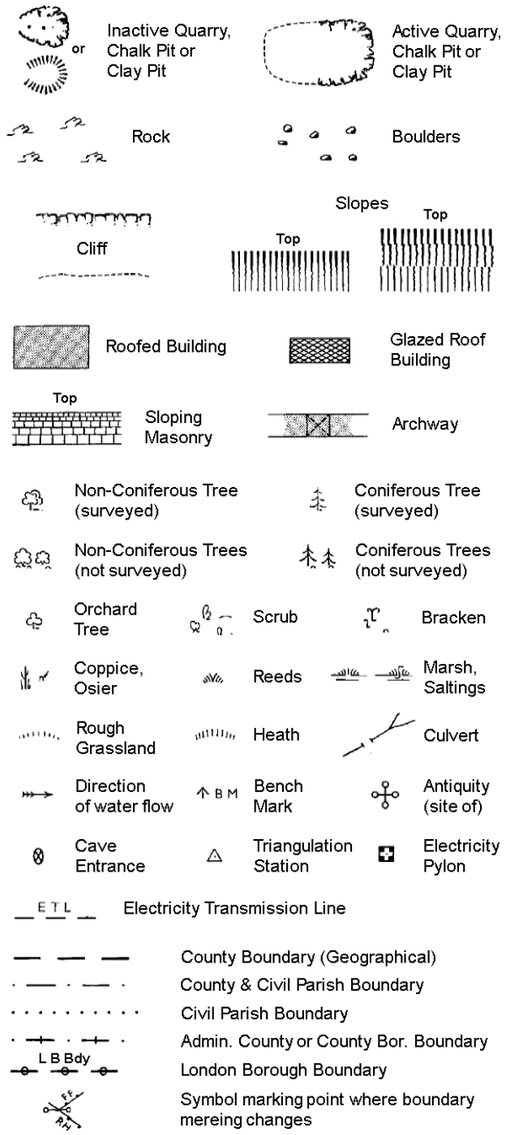
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

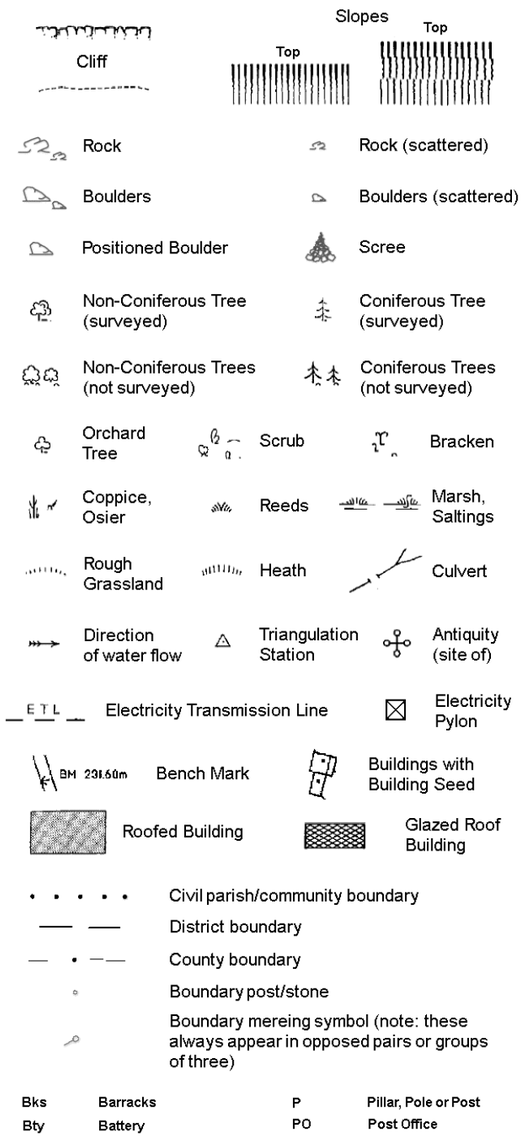
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

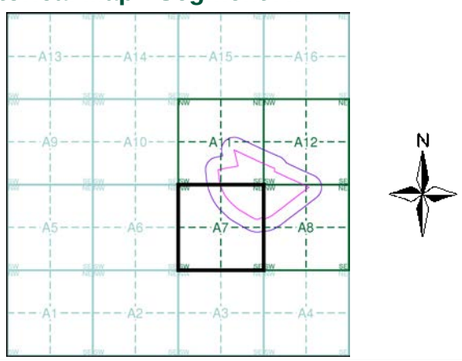
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1888 - 1889	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931 - 1932	4
Ordnance Survey Plan	1:2,500	1969	5
Additional SIMs	1:2,500	1990	6
Large-Scale National Grid Data	1:2,500	1995	7
Large-Scale National Grid Data	1:2,500	1996	8
Historical Aerial Photography	1:2,500	1999	9

Historical Map - Segment A7



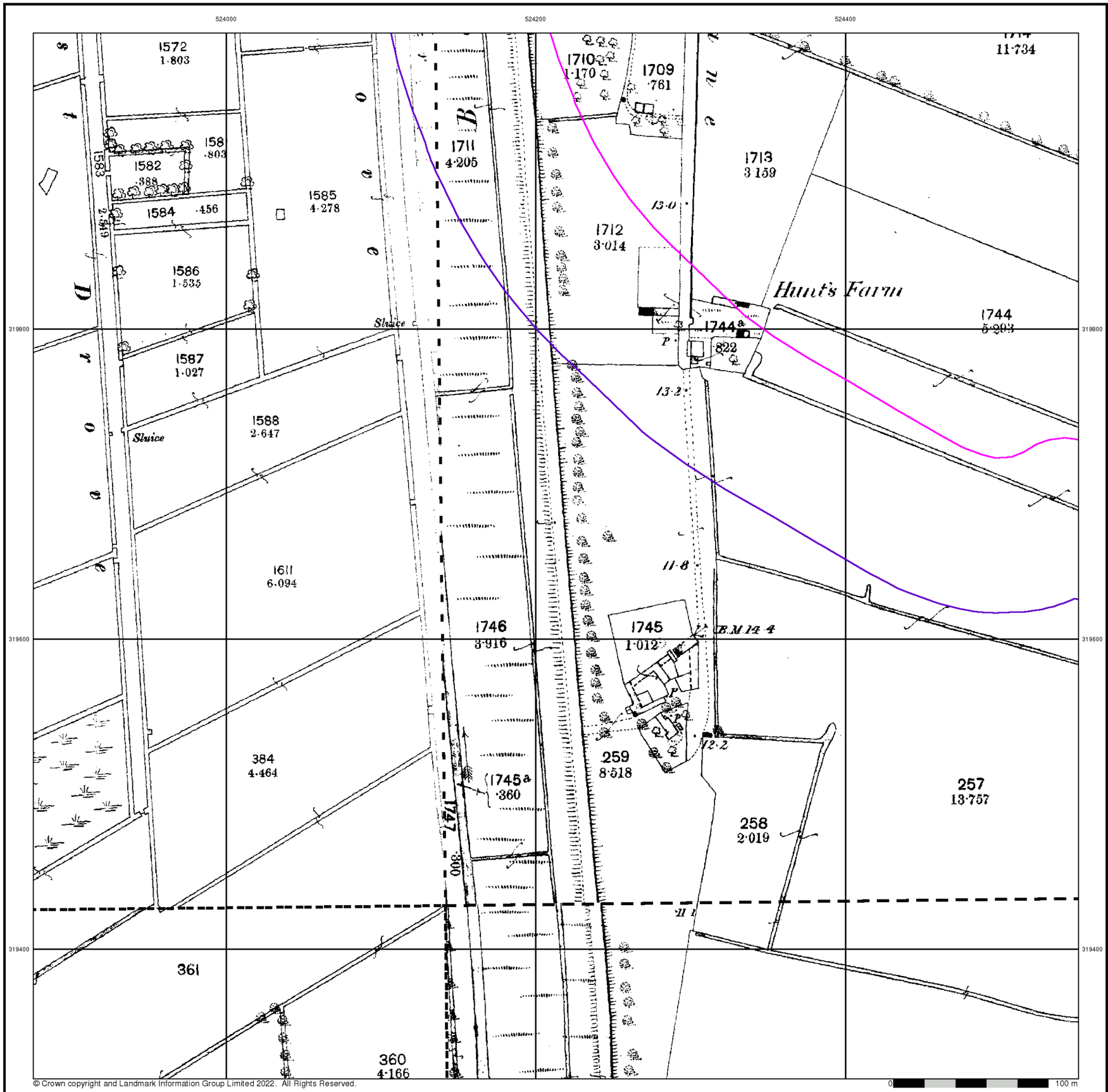
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Search Buffer (m):	100

Site Details

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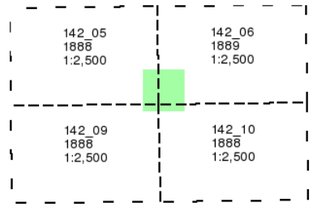
Lincolnshire

Published 1888 - 1889

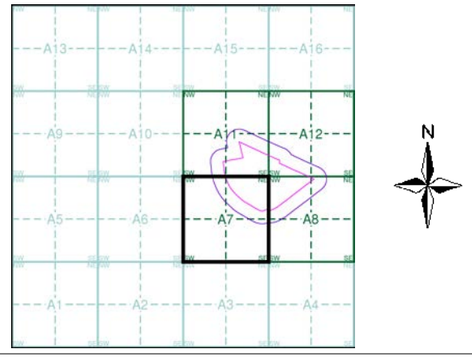
Source map scale - 1:2,500

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 A7



Order Details

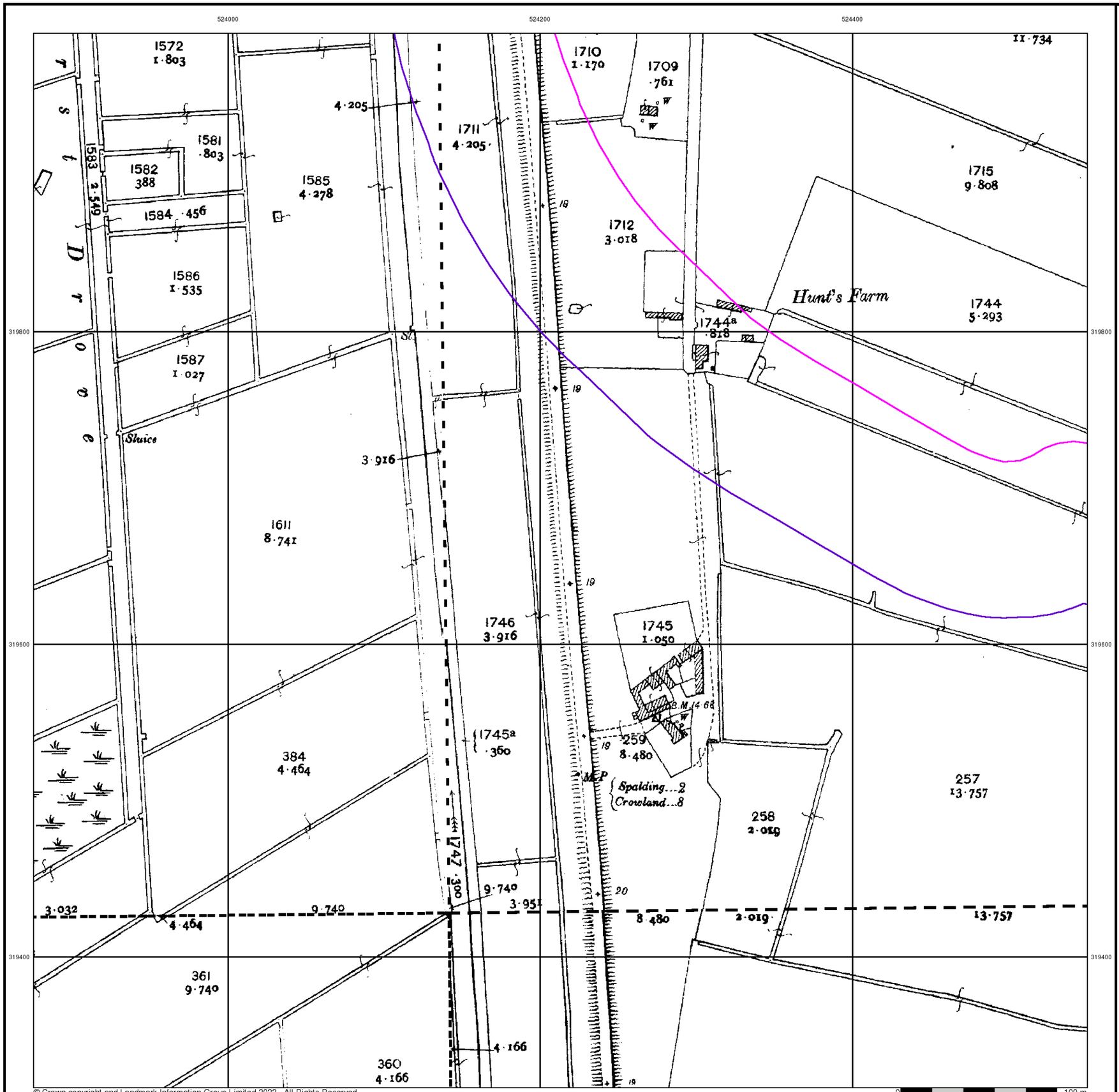
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Slice:	A
Site Area (Ha):	21.11
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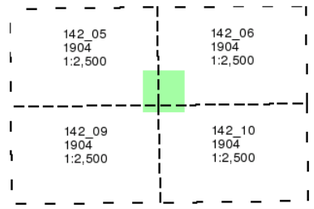
Lincolnshire

Published 1904

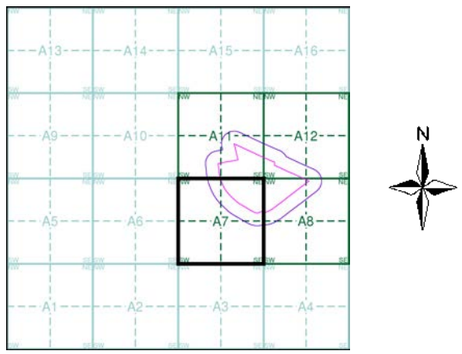
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



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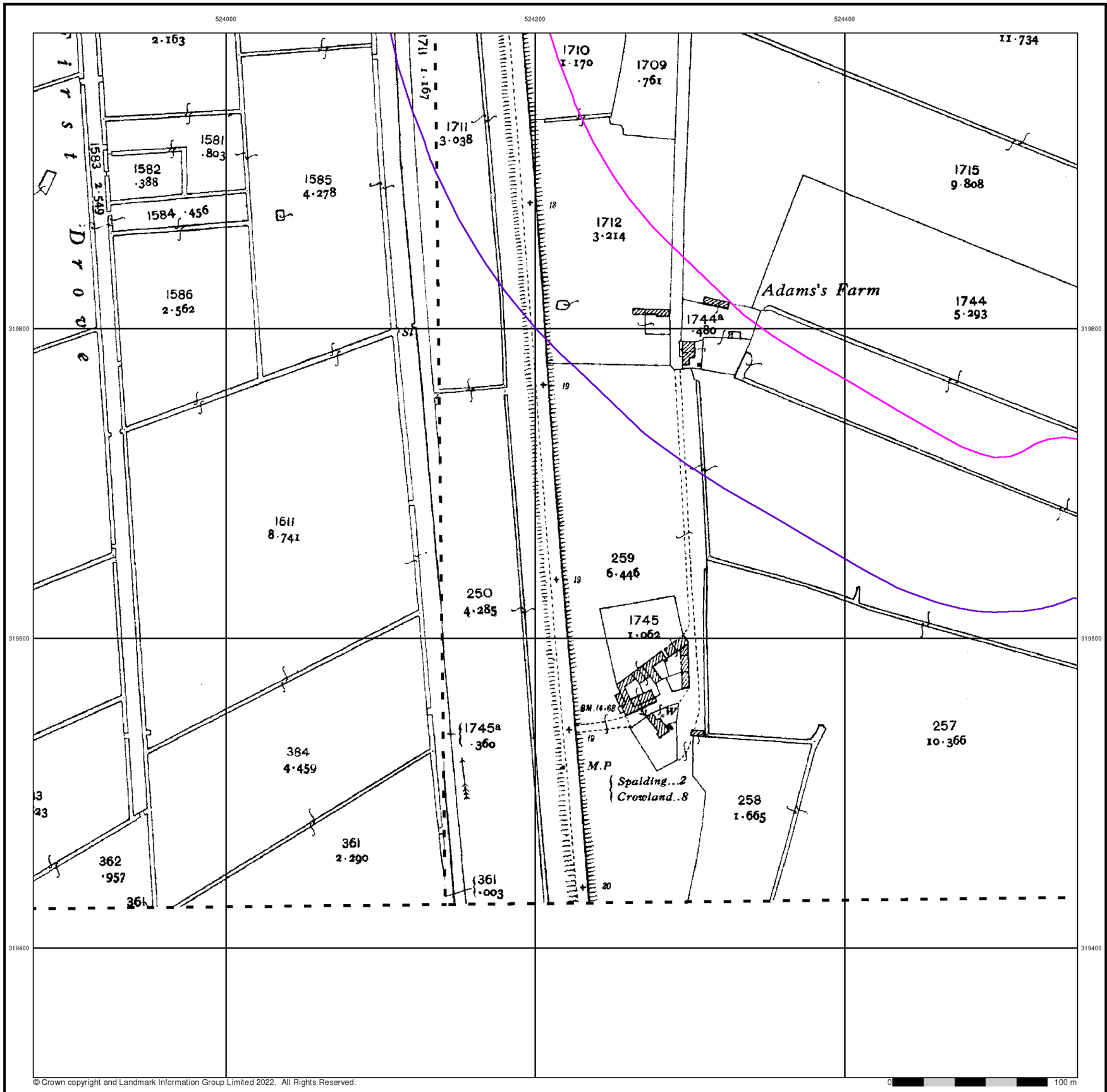
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Customer Ref:	46934
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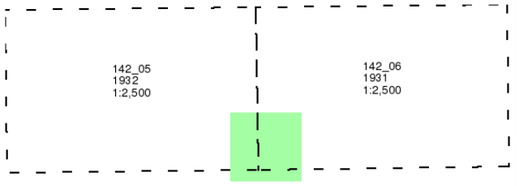
Lincolnshire

Published 1931 - 1932

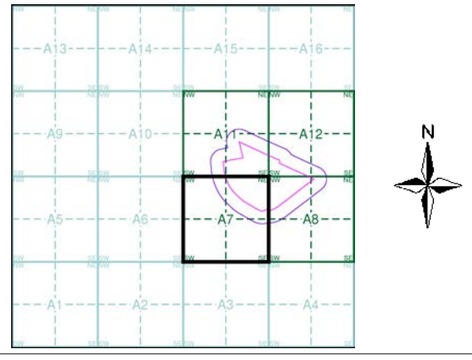
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



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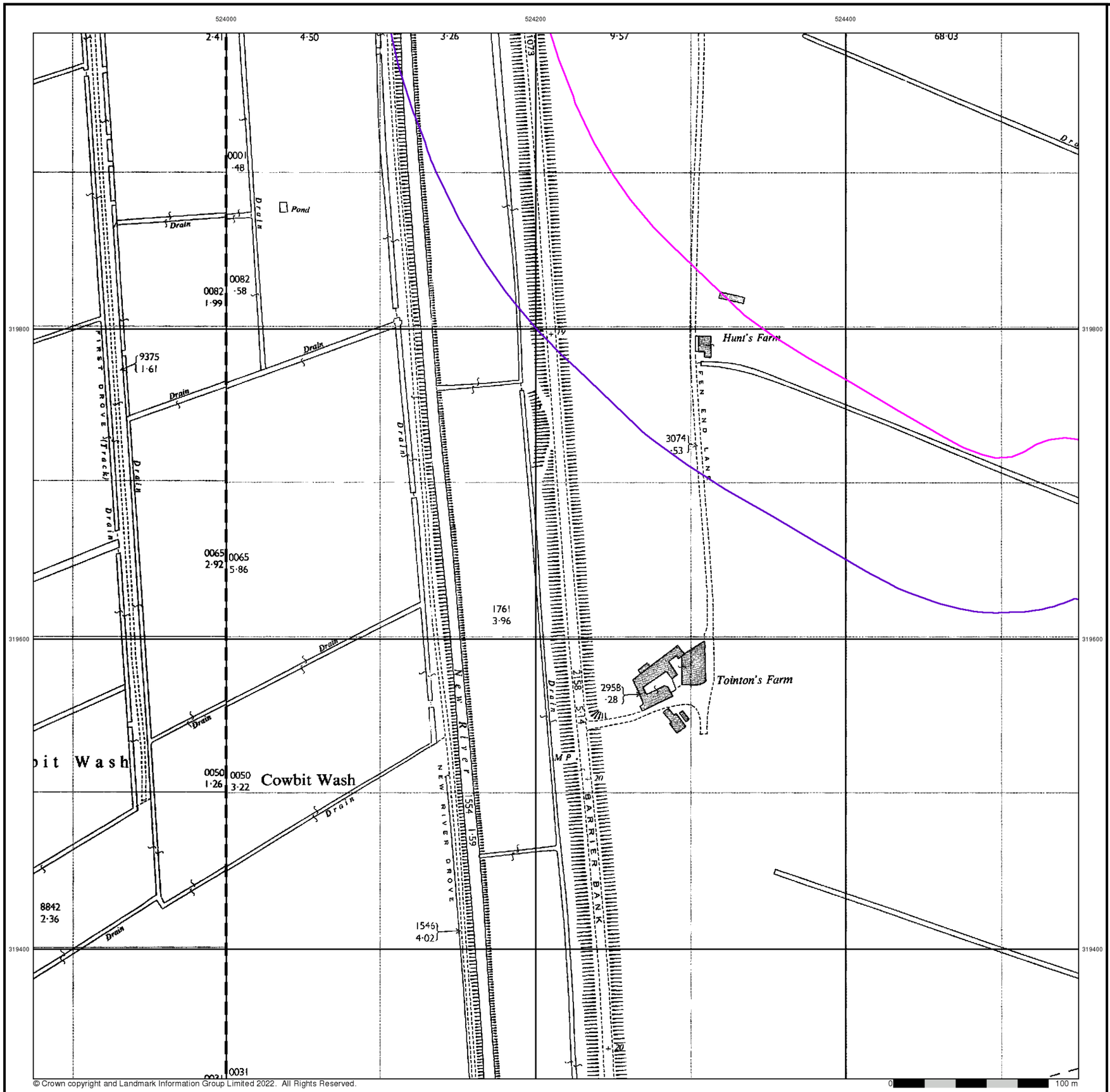
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National Grid Reference:	524300, 320000
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Search Buffer (m):	100

Site Details

Site at 524540, 319980

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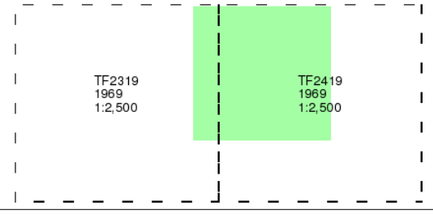
Ordnance Survey Plan

Published 1969

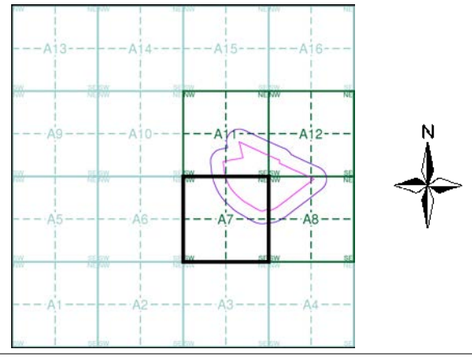
Source map scale - 1:2,500

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 A7



Order Details

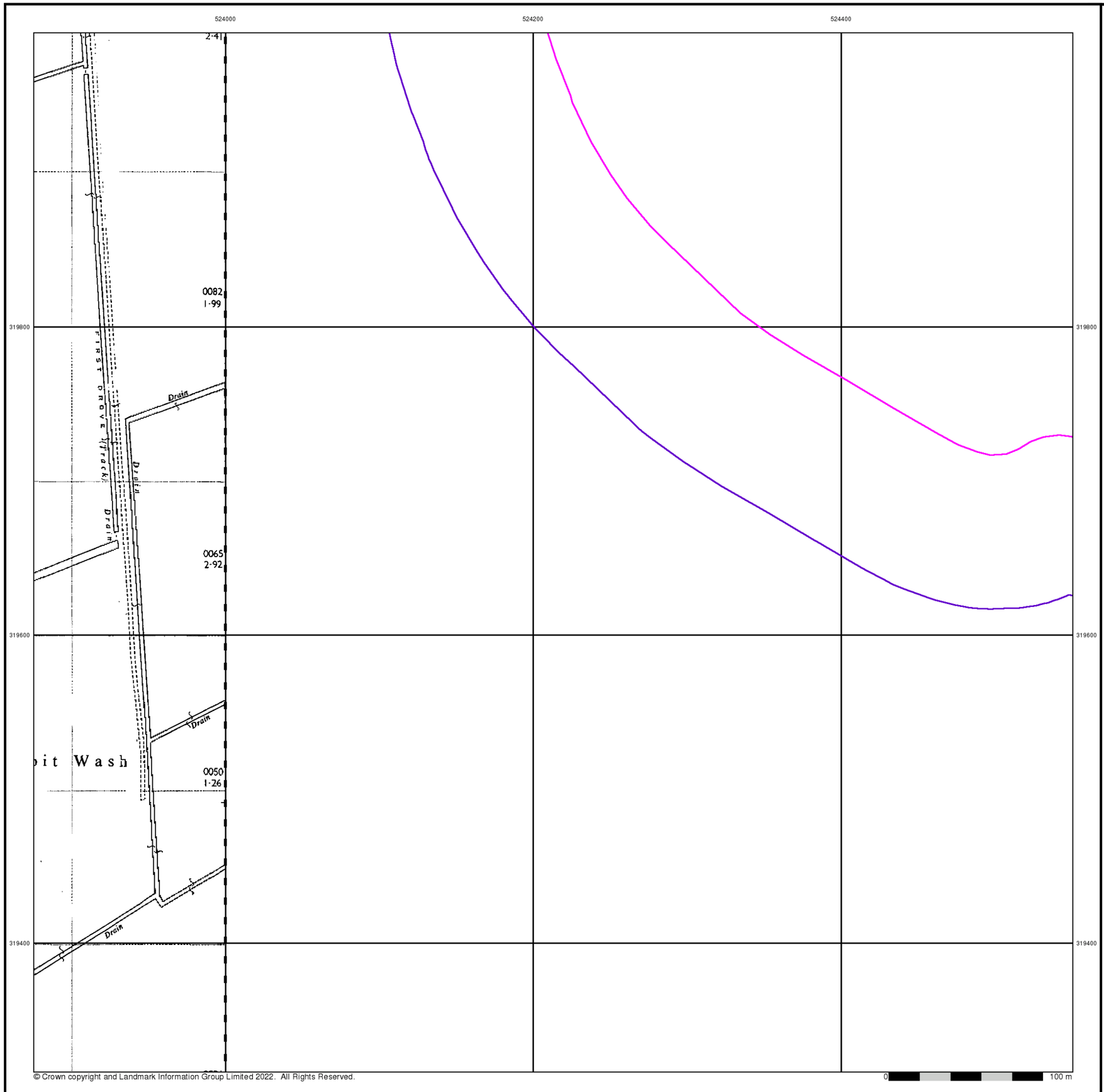
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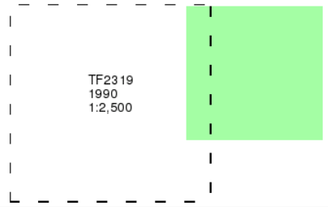
Additional SIMs

Published 1990

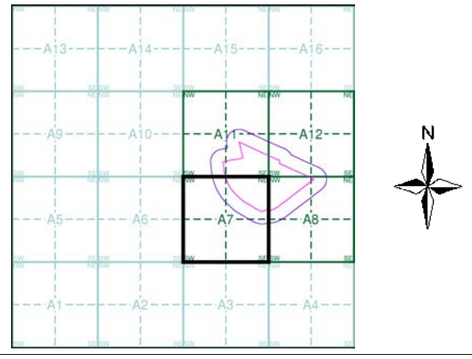
Source map scale - 1:2,500

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 A7



Order Details

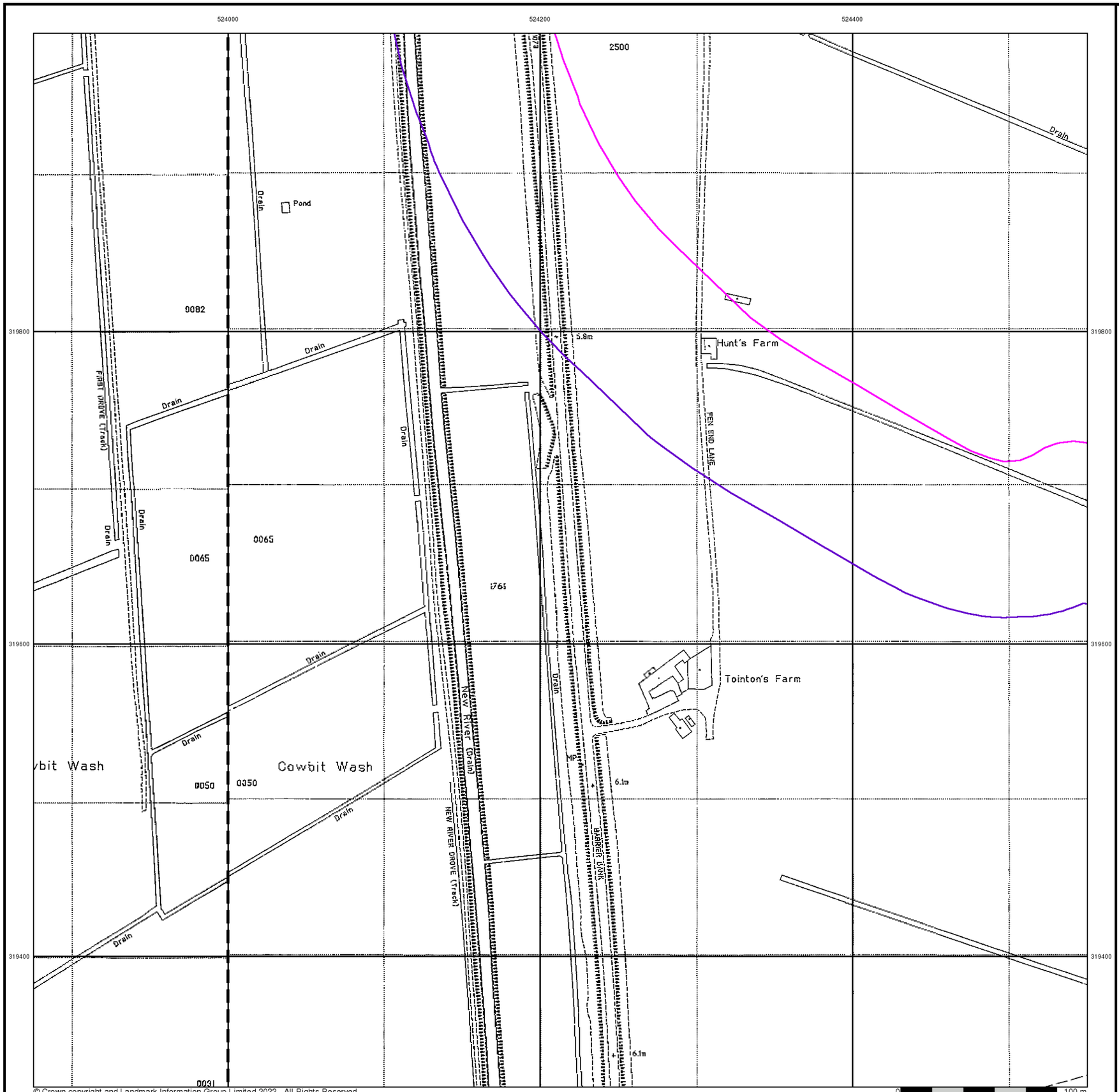
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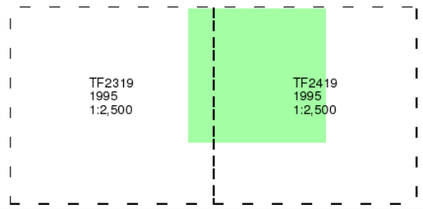
Large-Scale National Grid Data

Published 1995

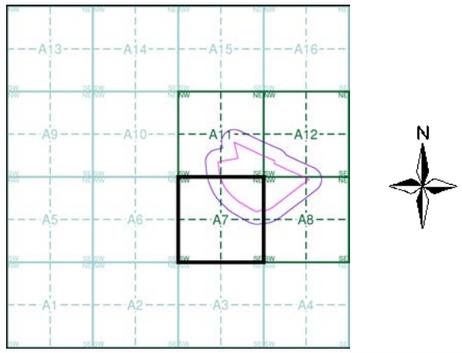
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

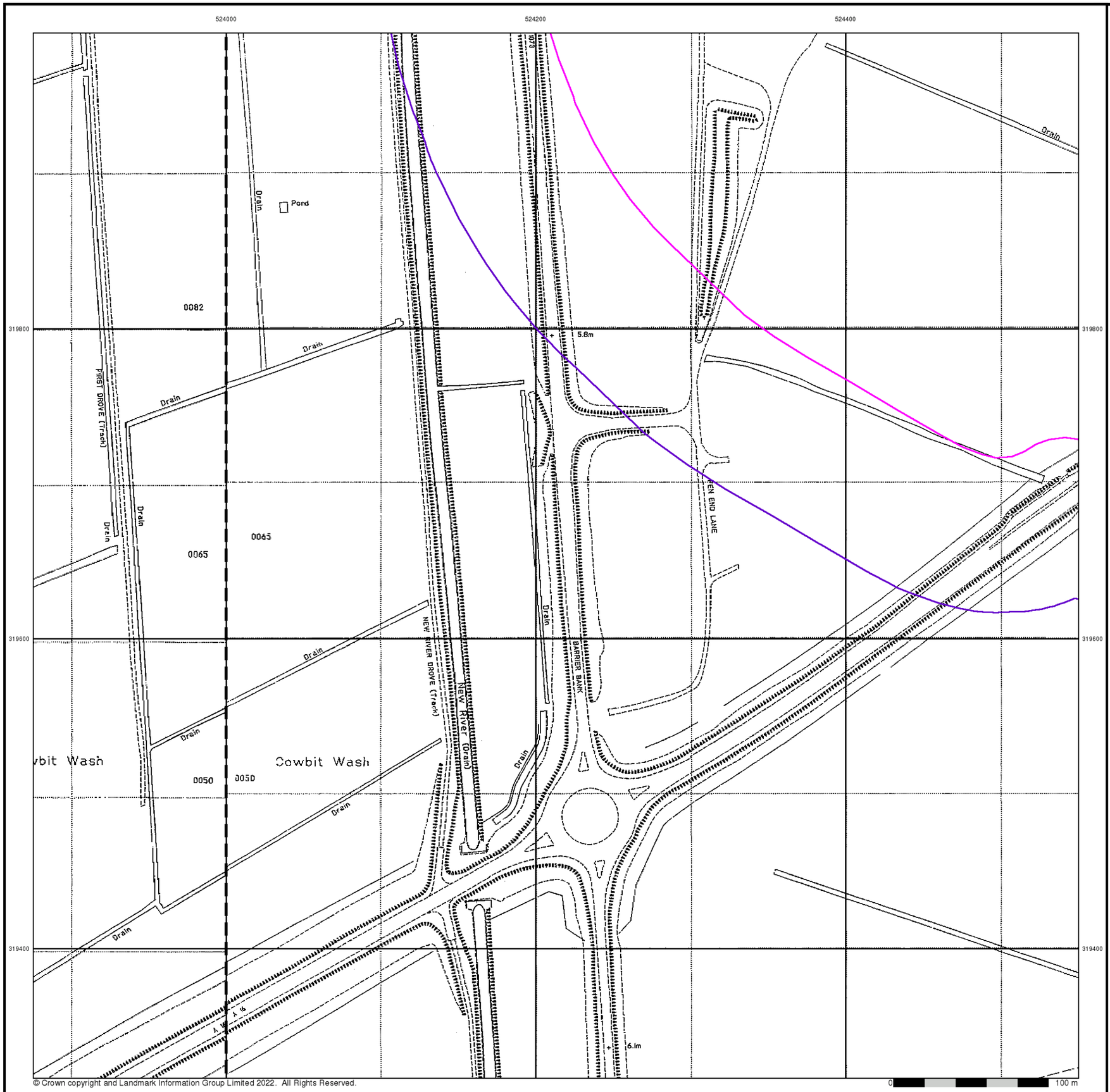
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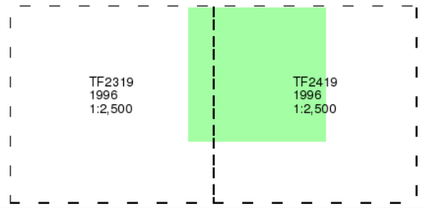
Large-Scale National Grid Data

Published 1996

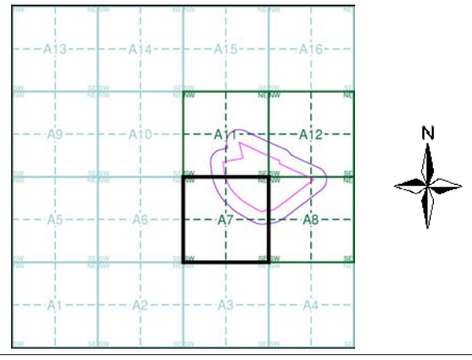
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

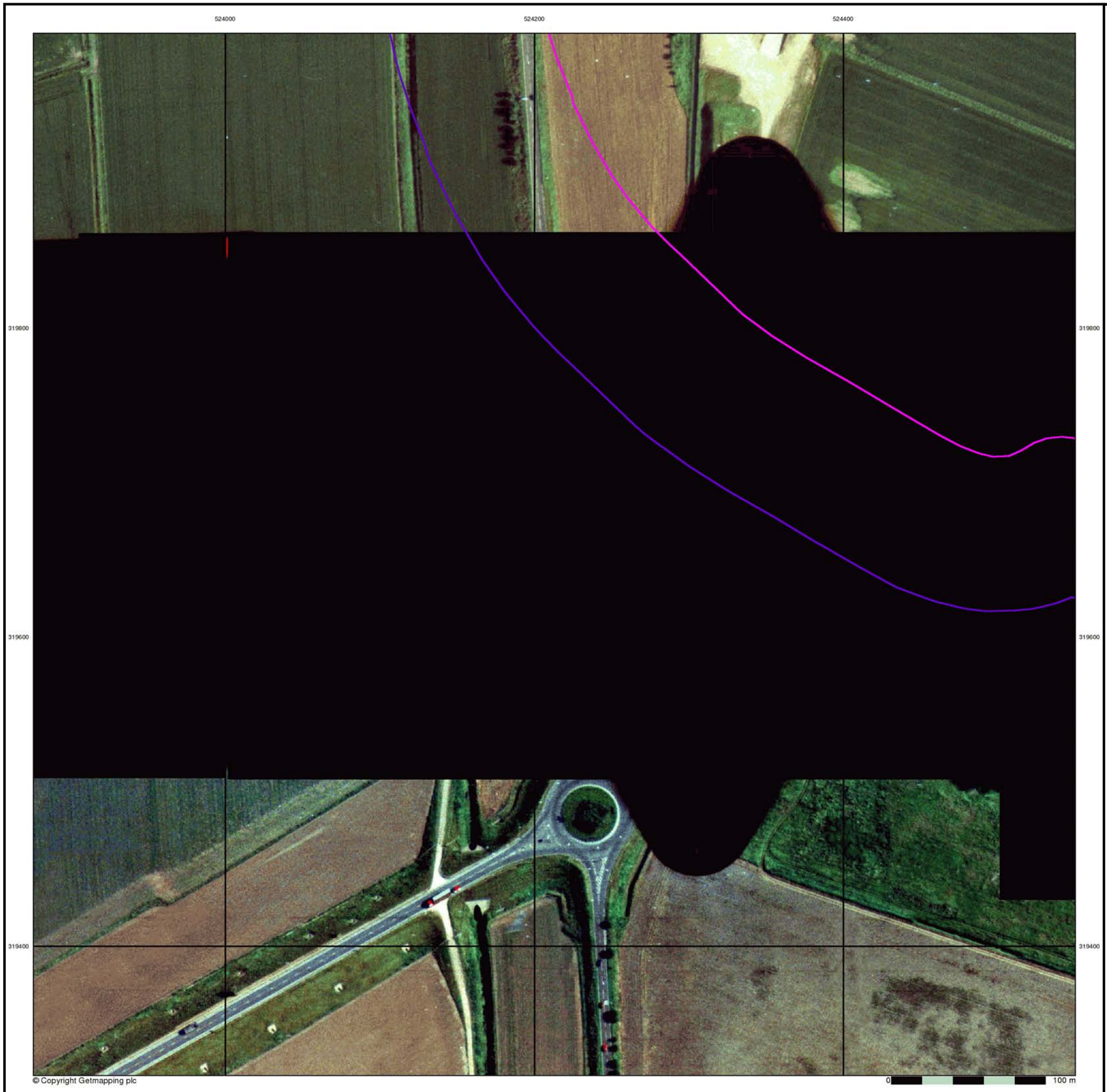
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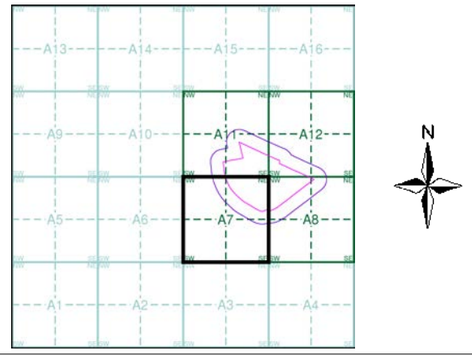
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A7



Order Details

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Site Area (Ha):	21.11
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Site Details

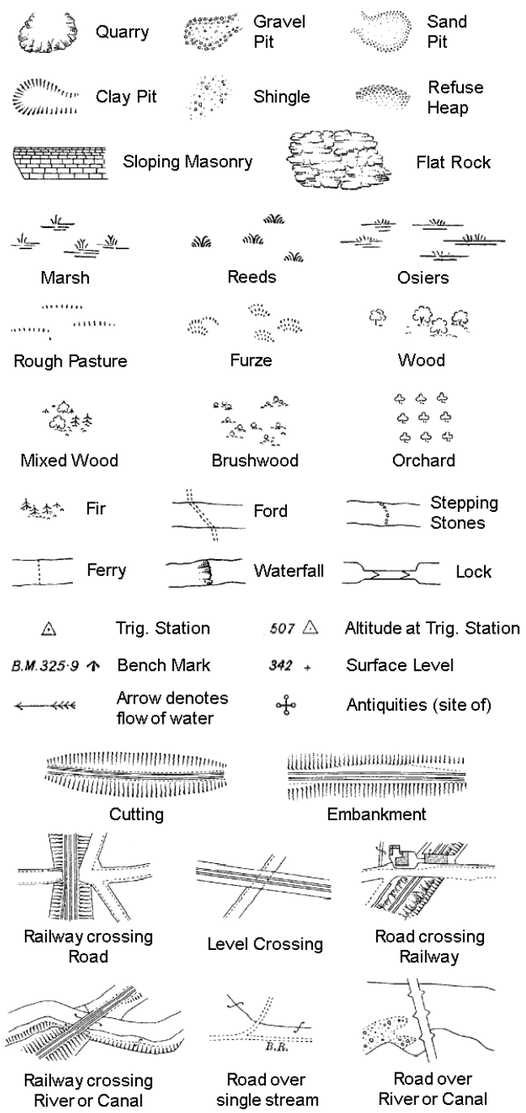
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Historical Mapping Legends

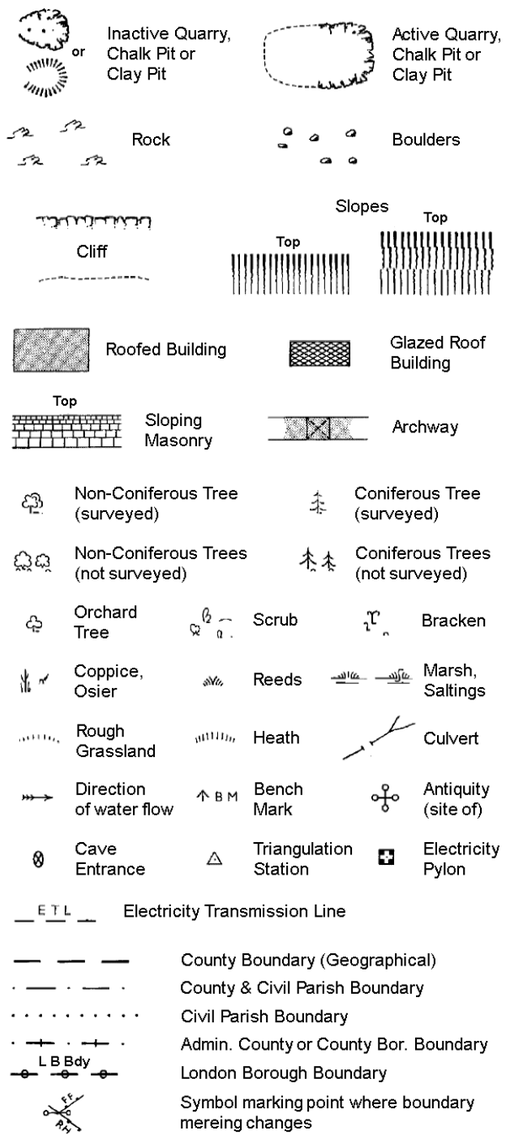
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

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

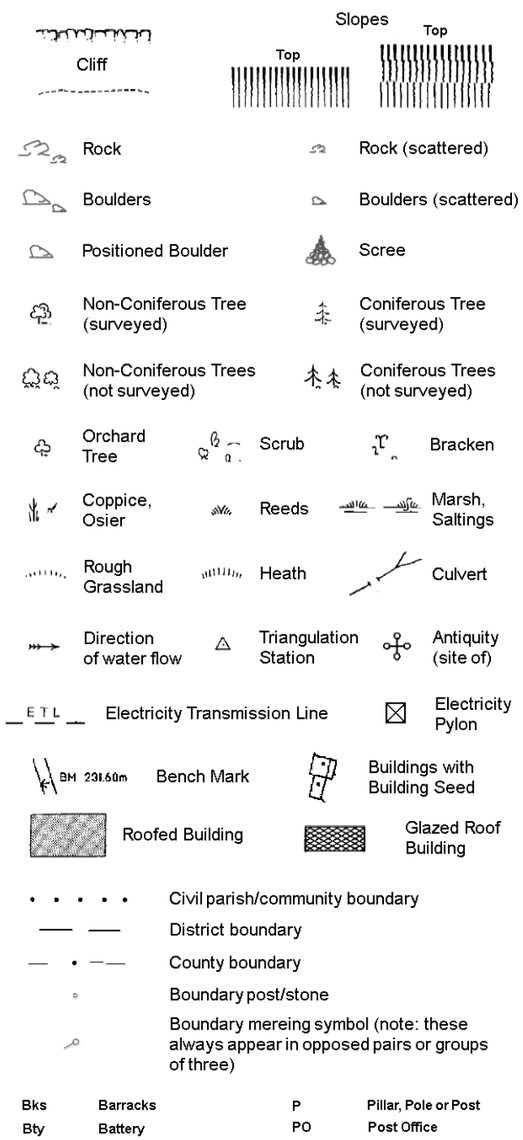
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

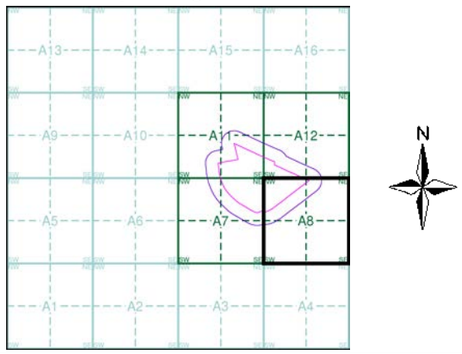
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1888 - 1889	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1969	5
Large-Scale National Grid Data	1:2,500	1995	6
Large-Scale National Grid Data	1:2,500	1996	7
Historical Aerial Photography	1:2,500	1999	8

Historical Map - Segment A8



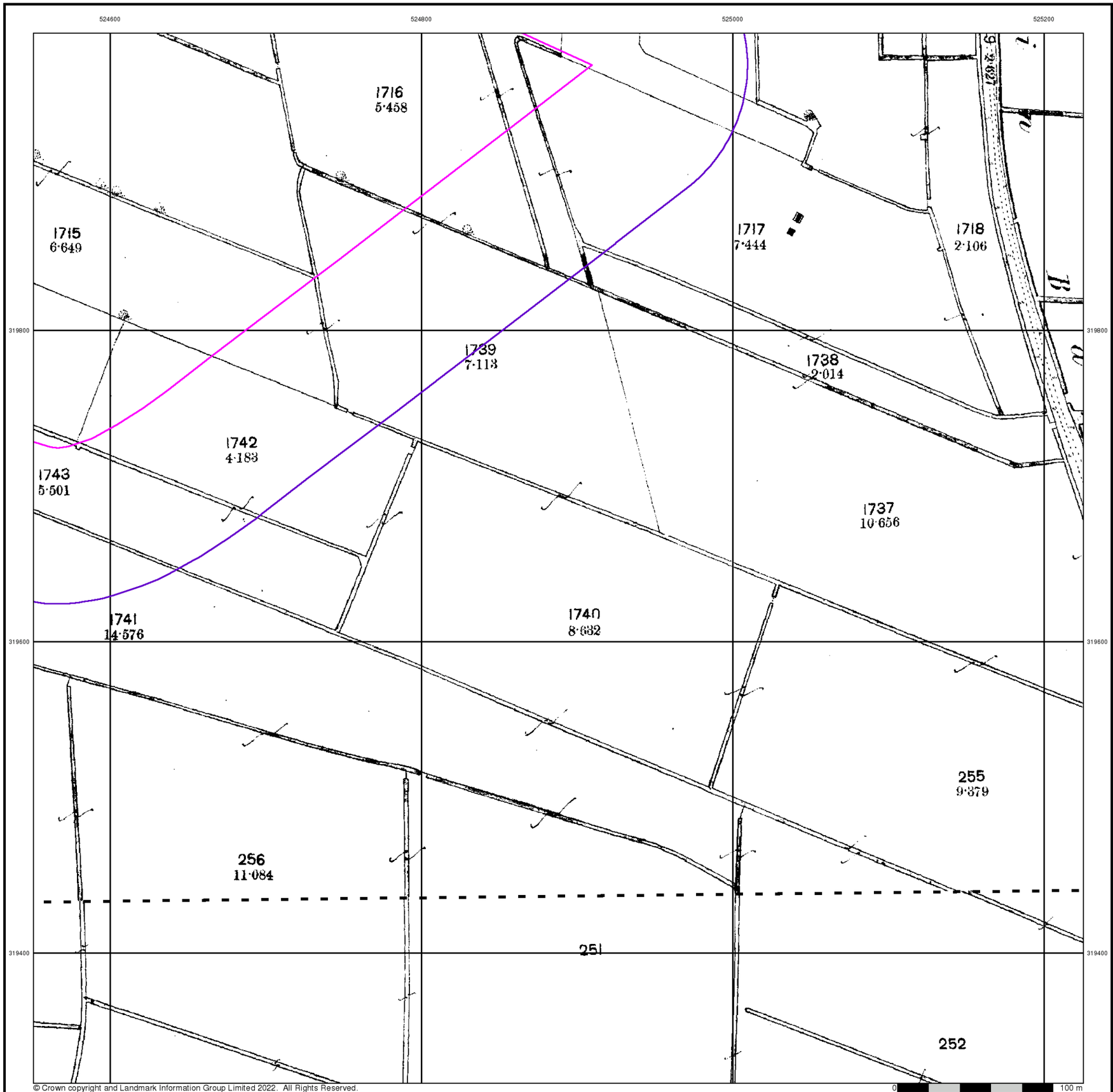
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Customer Ref:	46934
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Slice:	A
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Search Buffer (m):	100

Site Details

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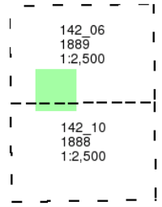
Lincolnshire

Published 1888 - 1889

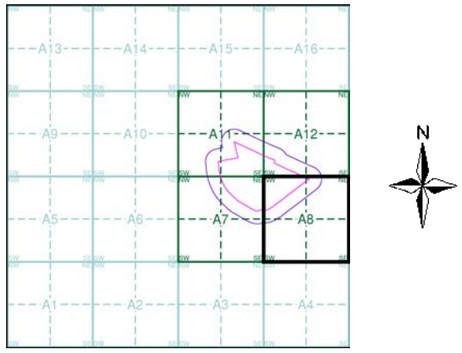
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

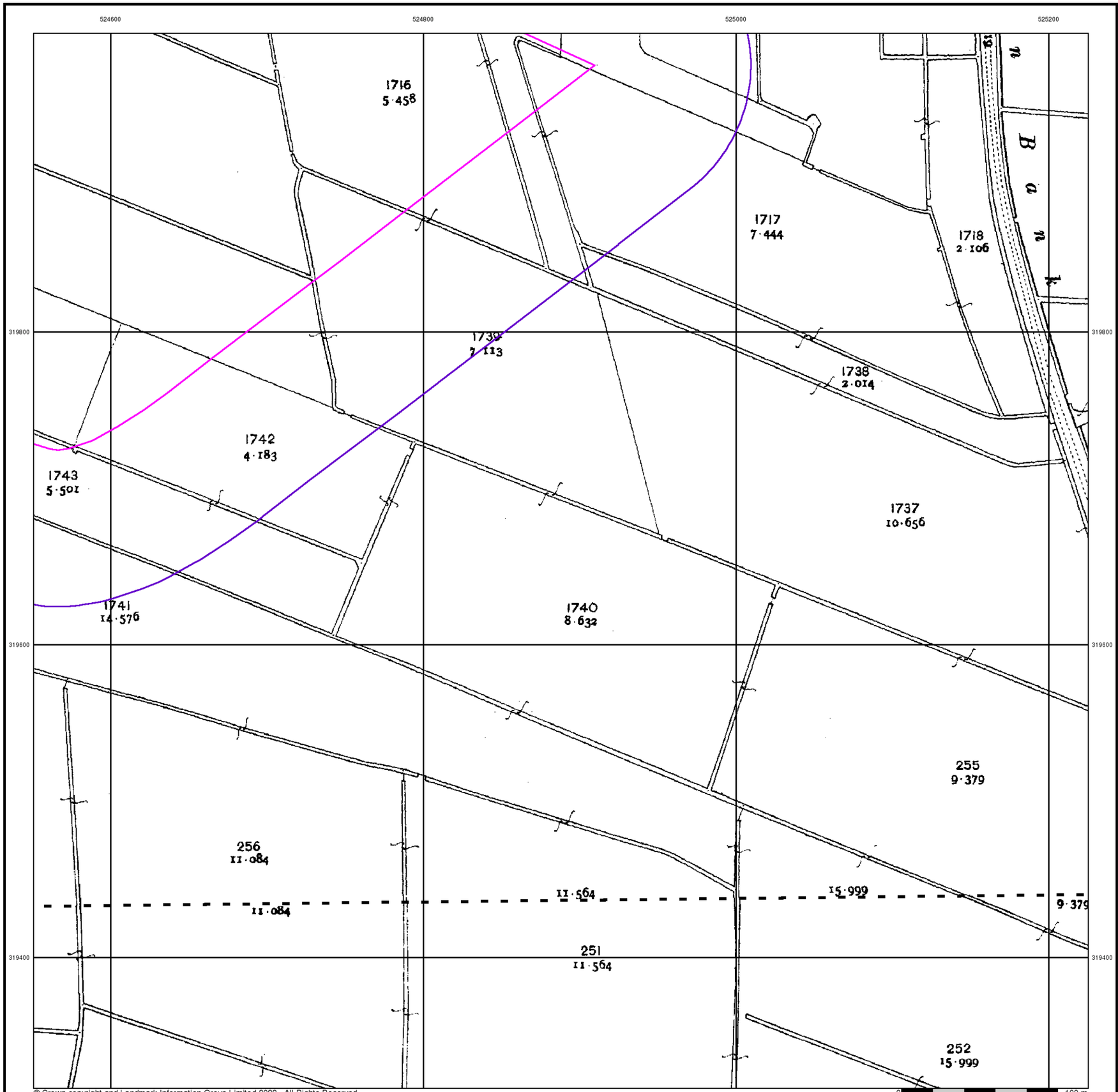
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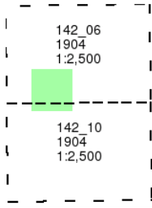
Lincolnshire

Published 1904

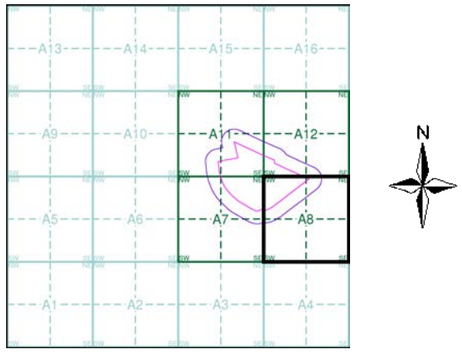
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Map Name(s) and Date(s)



Historical Map - Segment A8



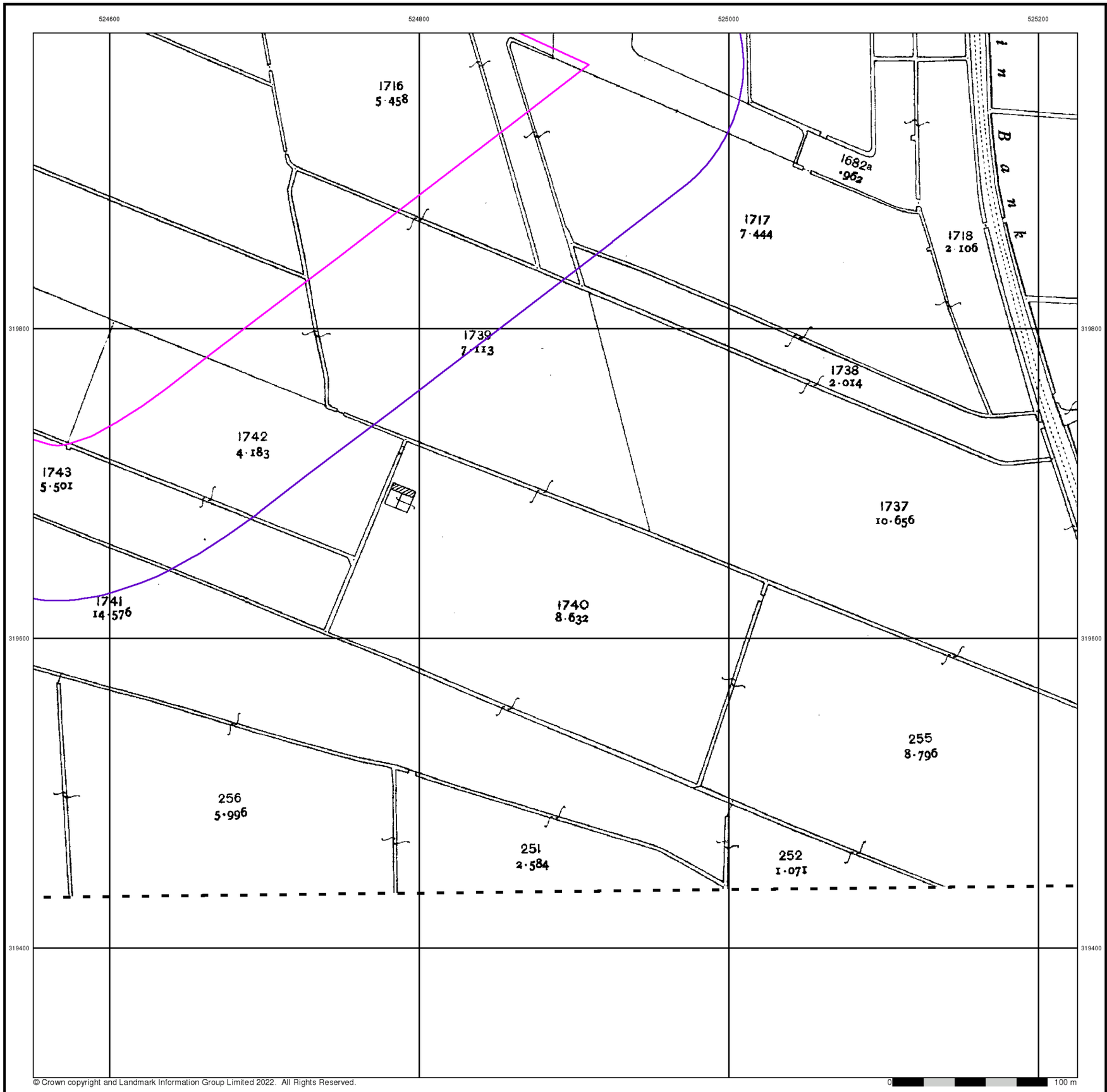
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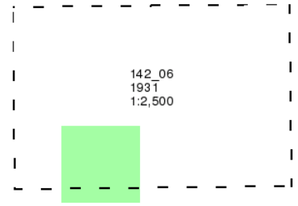
Lincolnshire

Published 1931

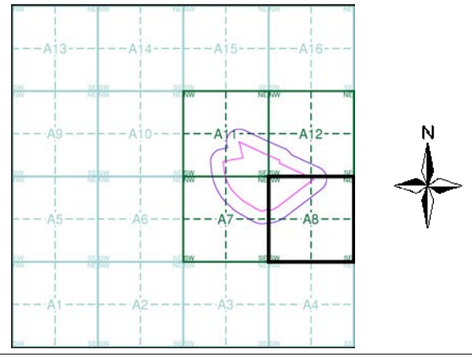
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



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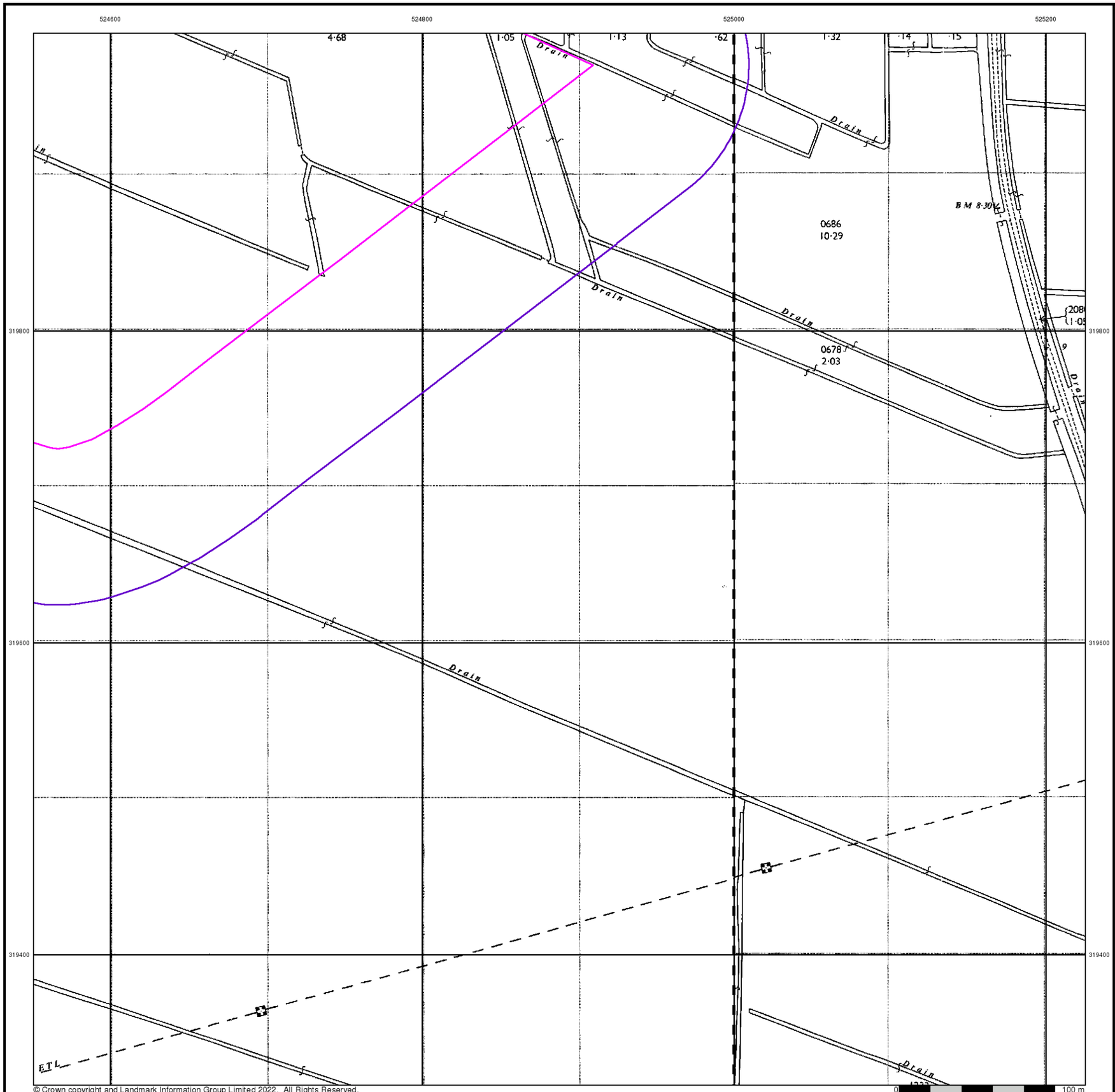
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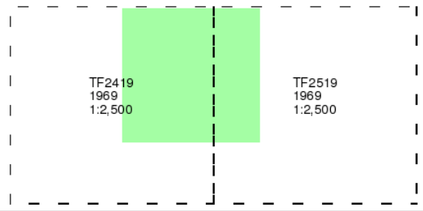
Ordnance Survey Plan

Published 1969

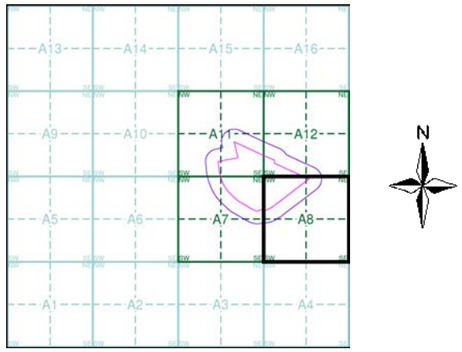
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Historical Map - Segment A8



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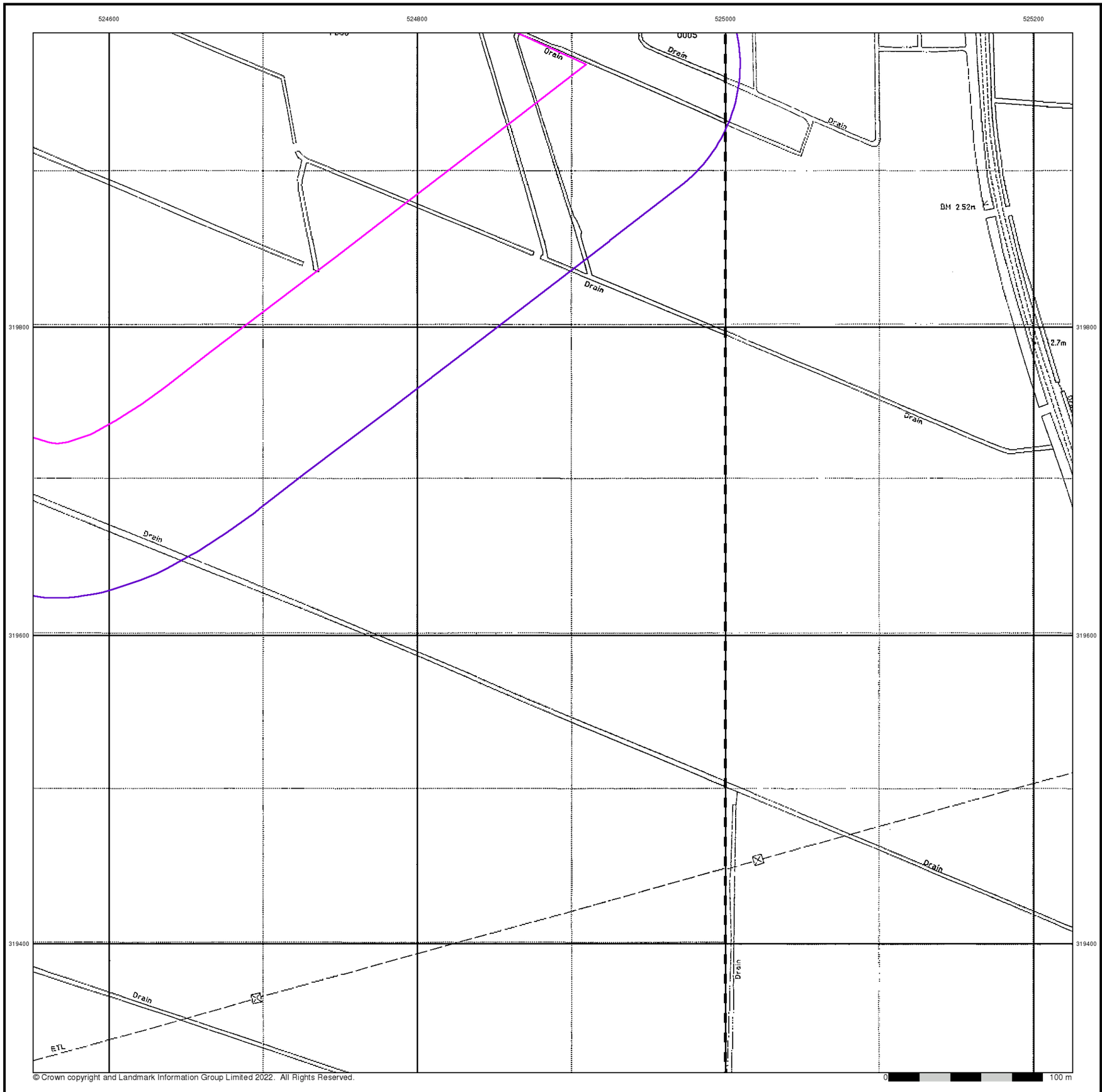
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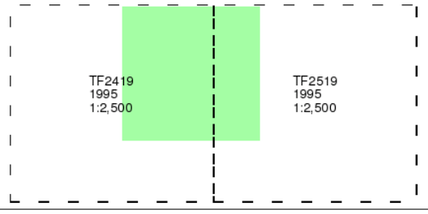
Large-Scale National Grid Data

Published 1995

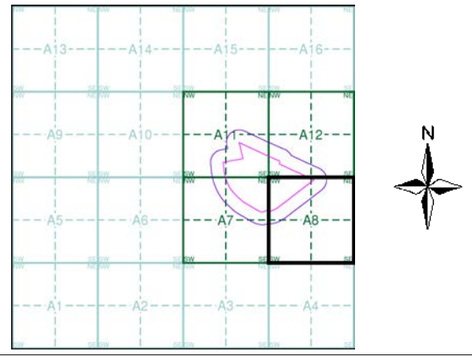
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

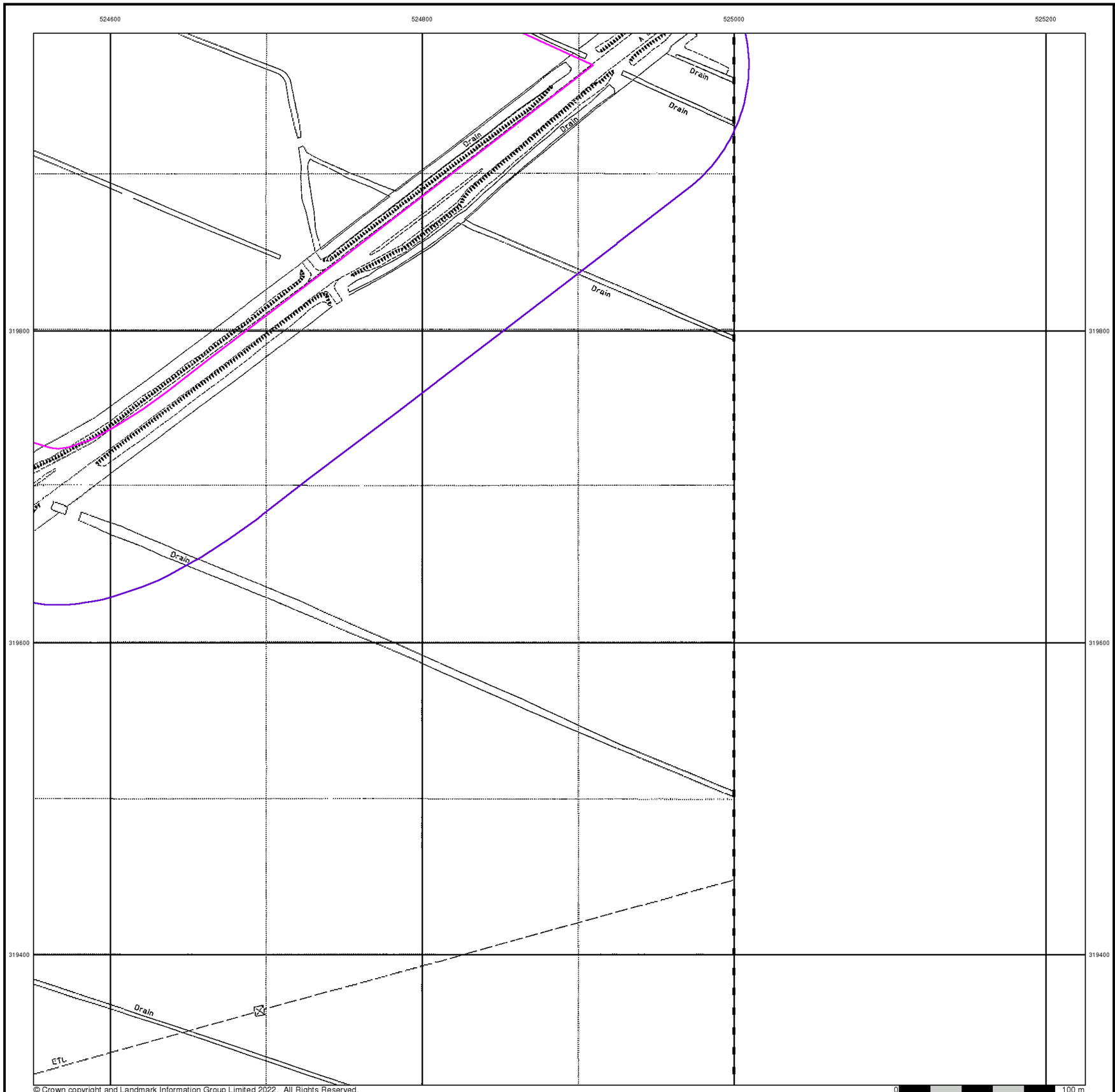
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	100

Site Details

Site at 524540, 319980

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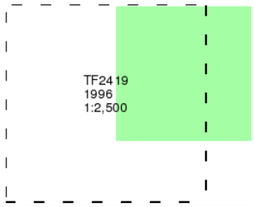
Large-Scale National Grid Data

Published 1996

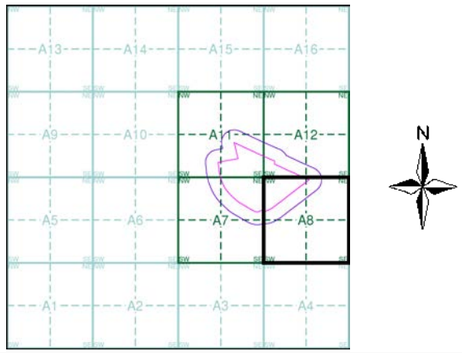
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

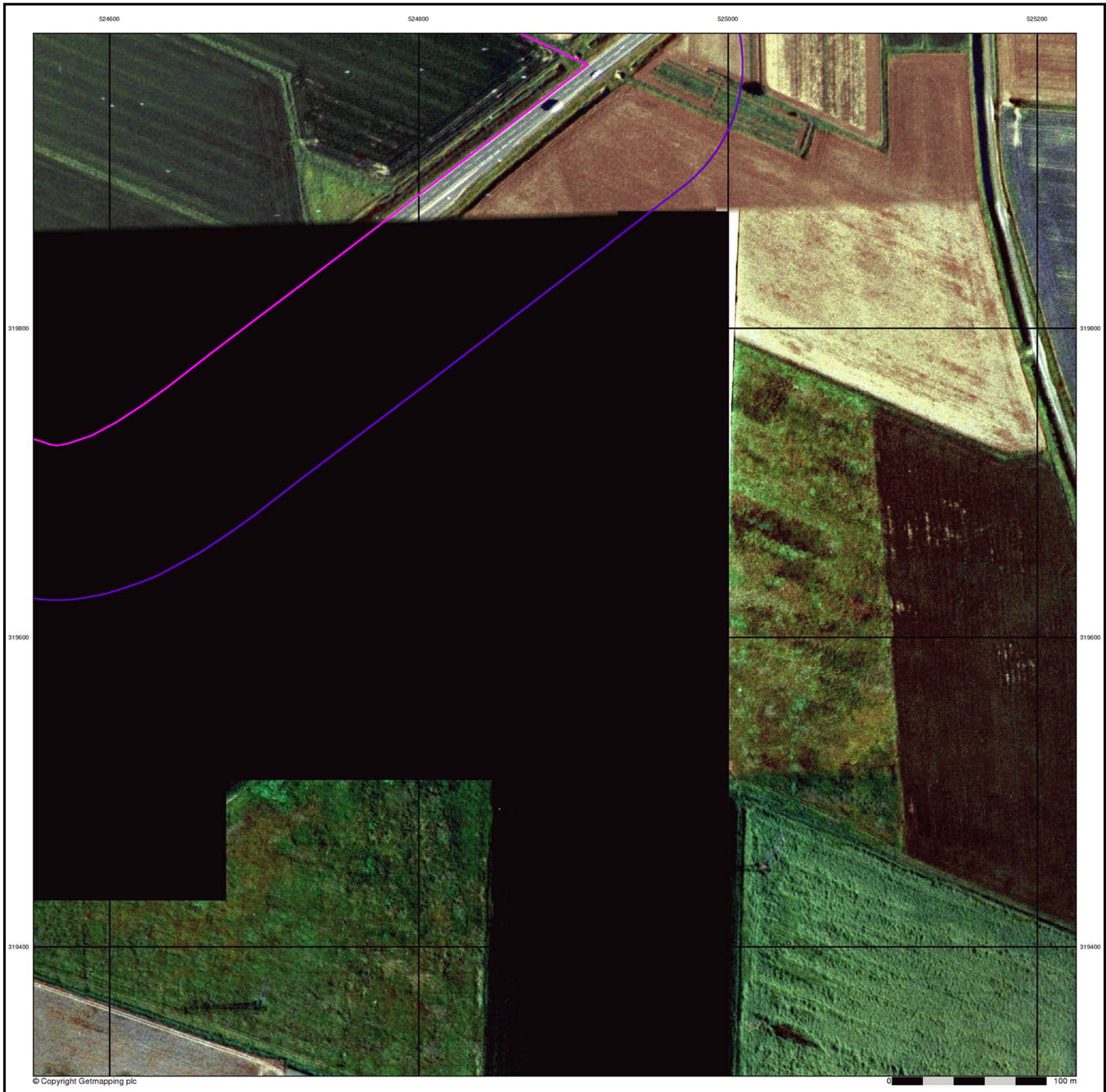
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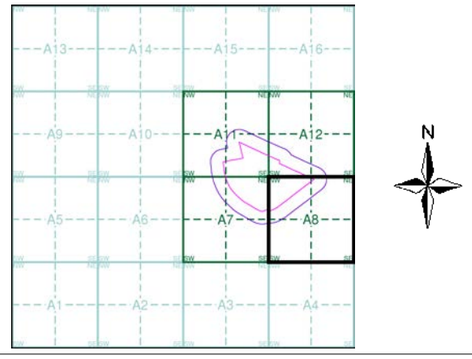
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A8



Order Details

Order Number:	293435682_1_1
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Slice:	A
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Site Details

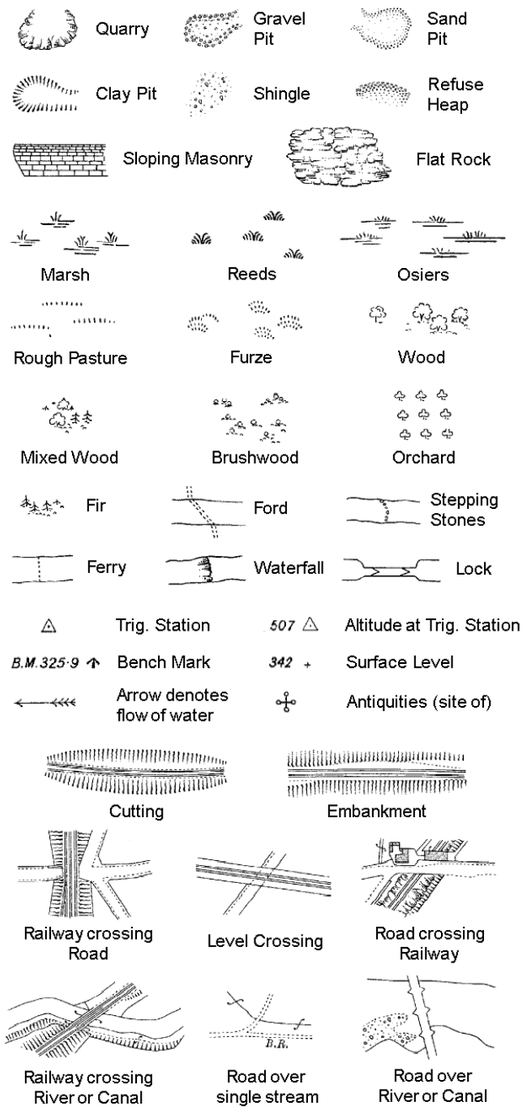
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Historical Mapping Legends

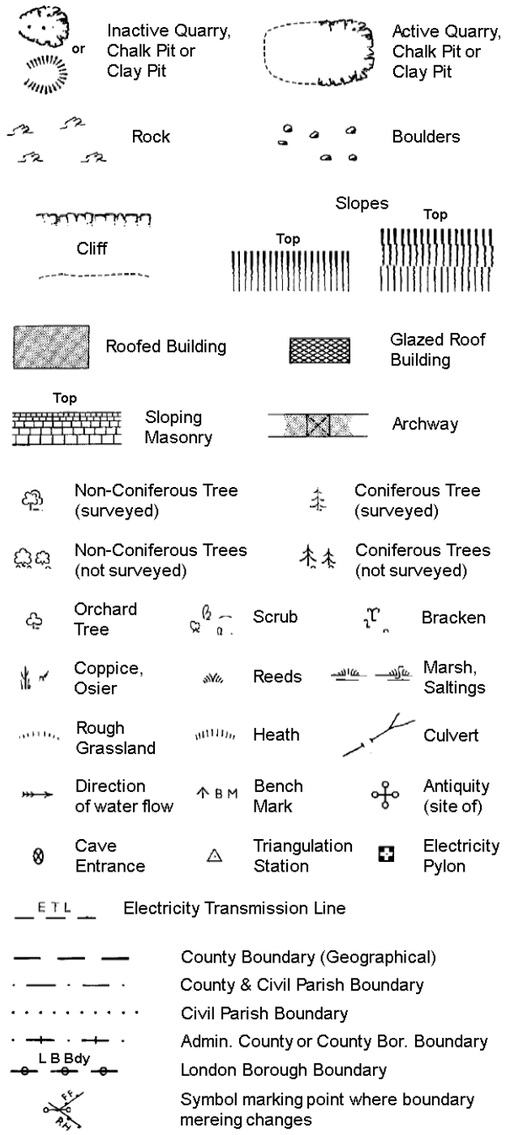
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

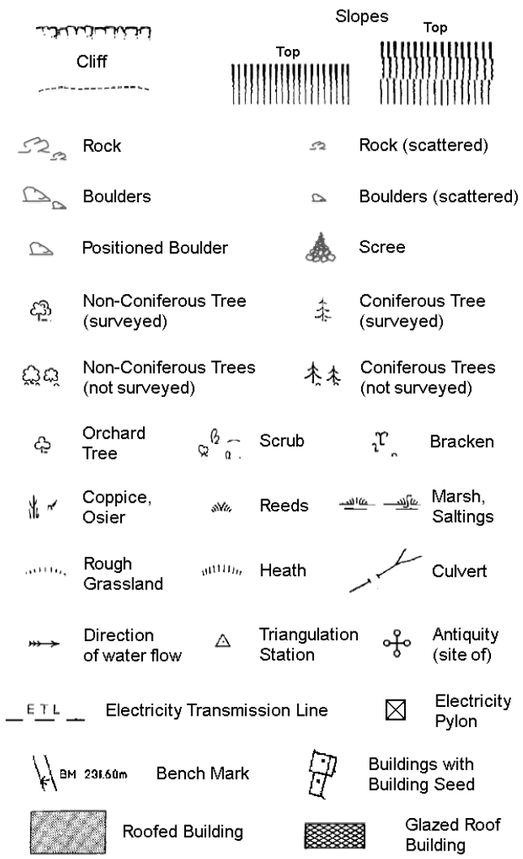
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

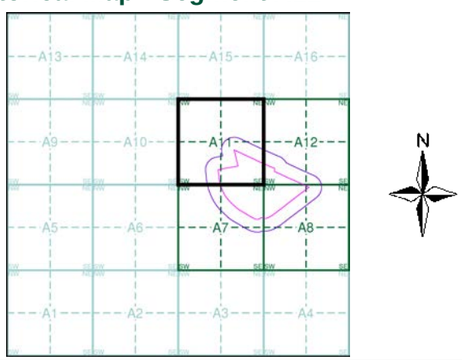
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1888 - 1889	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931 - 1932	4
Ordnance Survey Plan	1:2,500	1968 - 1969	5
Additional SIMs	1:2,500	1968 - 1990	6
Additional SIMs	1:2,500	1980	7
Additional SIMs	1:2,500	1988	8
Large-Scale National Grid Data	1:2,500	1995	9
Large-Scale National Grid Data	1:2,500	1996	10
Historical Aerial Photography	1:2,500	1999	11

Historical Map - Segment A11



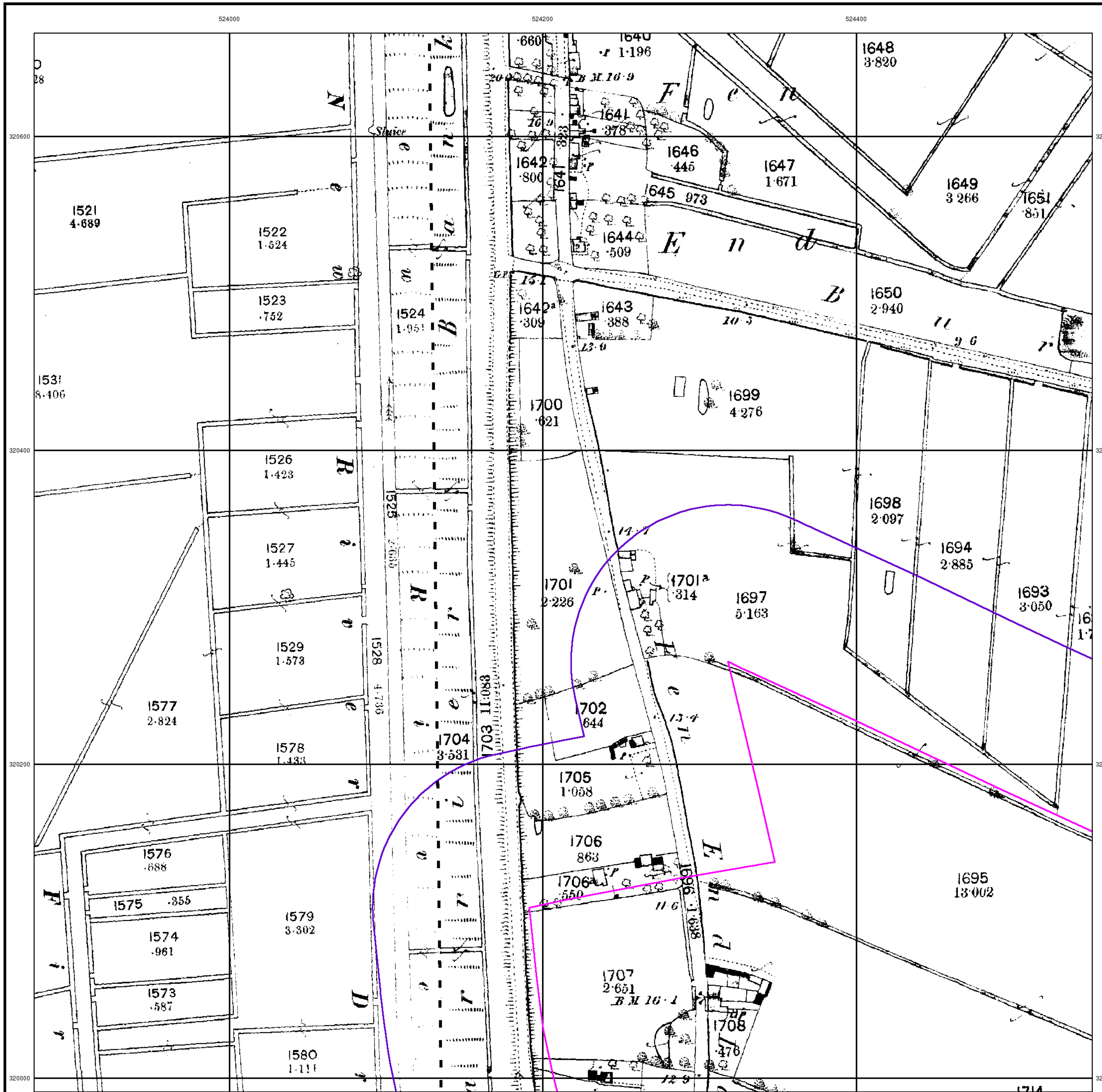
Order Details

Order Number: 293435682_1_1
Customer Ref: 46934
National Grid Reference: 524300, 320000
Slice: A
Site Area (Ha): 21.11
Search Buffer (m): 100

Site Details

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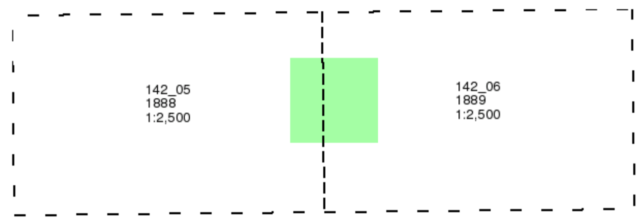
Lincolnshire

Published 1888 - 1889

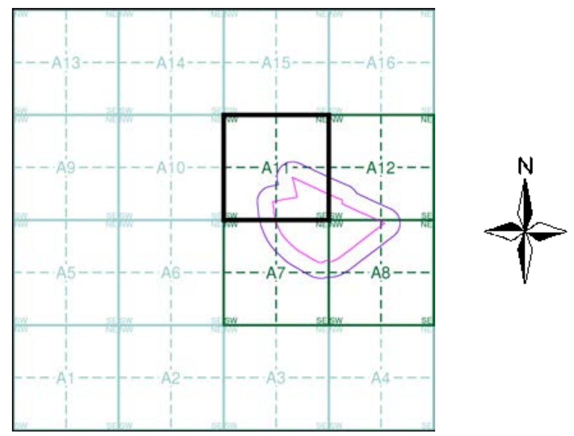
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

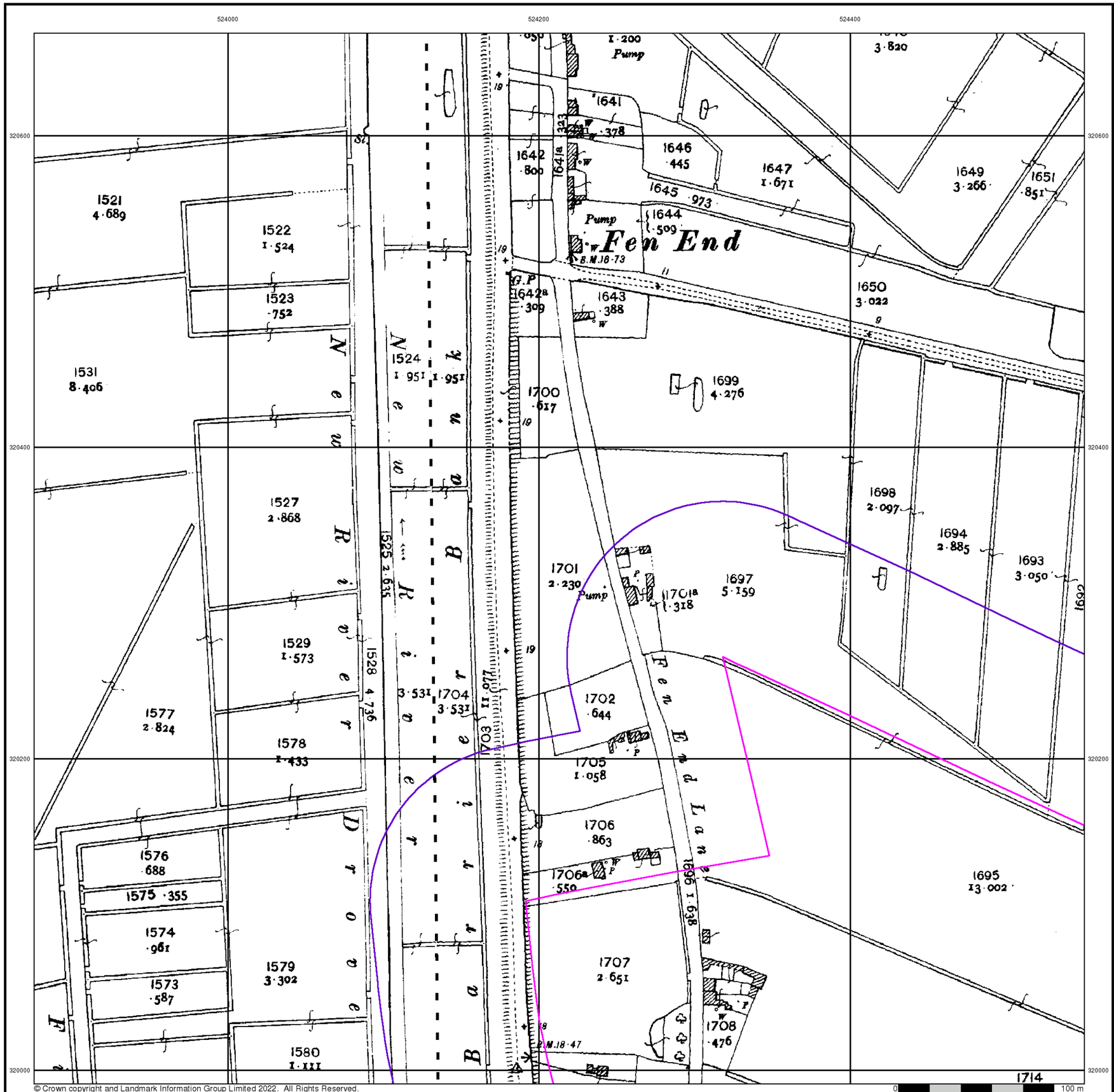
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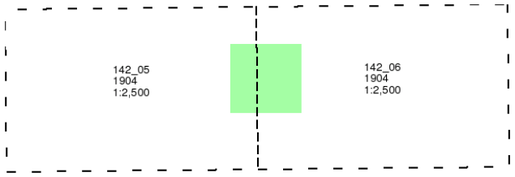
Lincolnshire

Published 1904

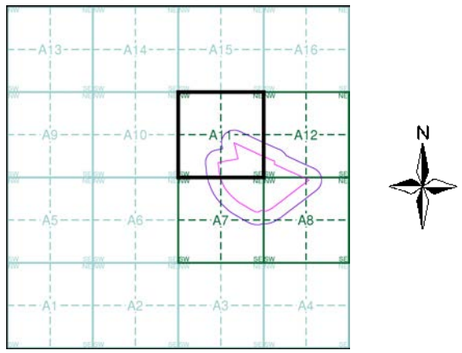
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



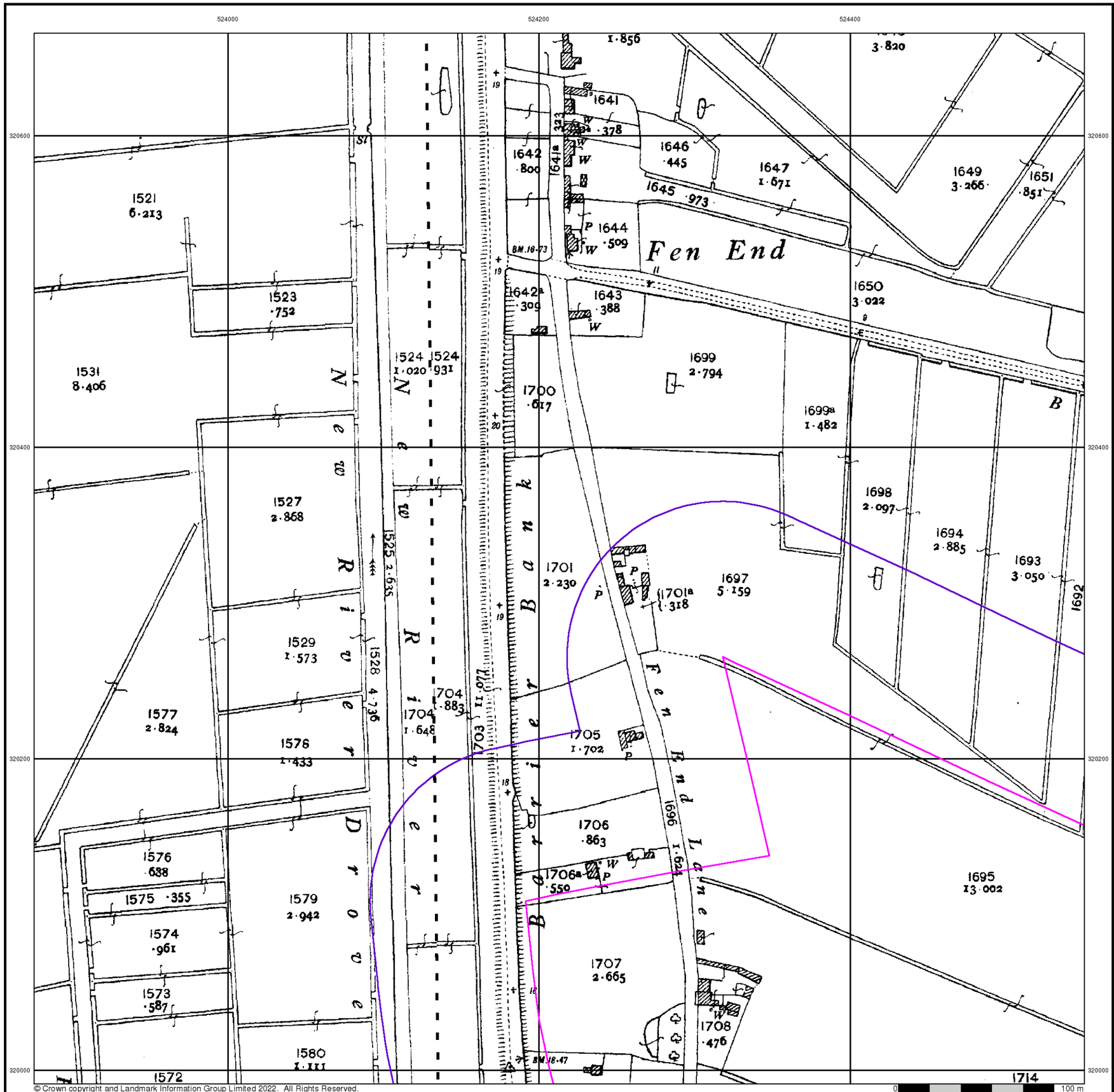
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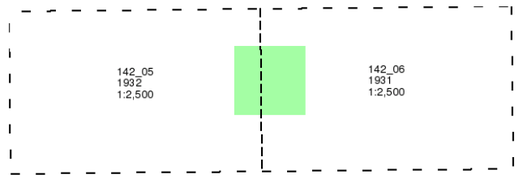
Lincolnshire

Published 1931 - 1932

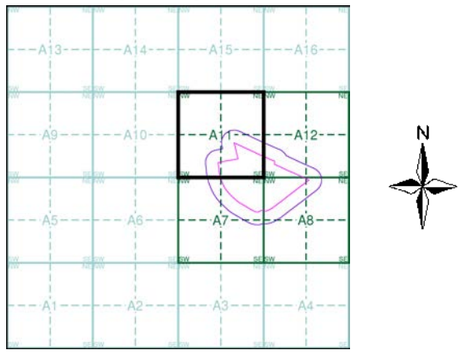
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



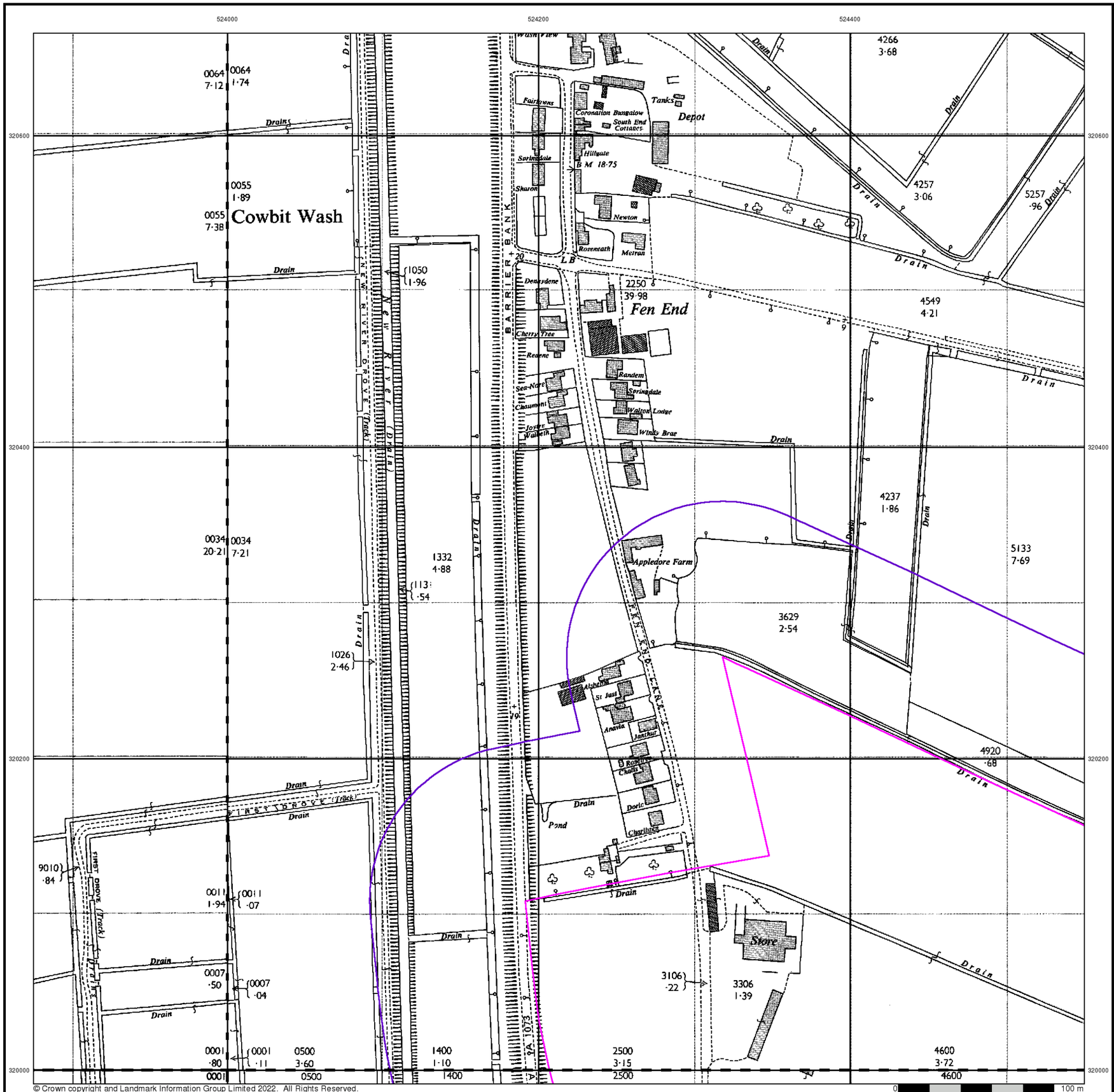
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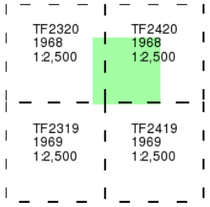
Ordnance Survey Plan

Published 1968 - 1969

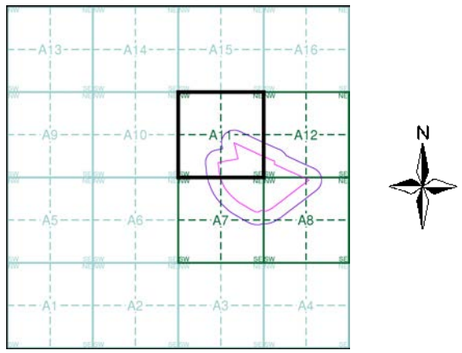
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



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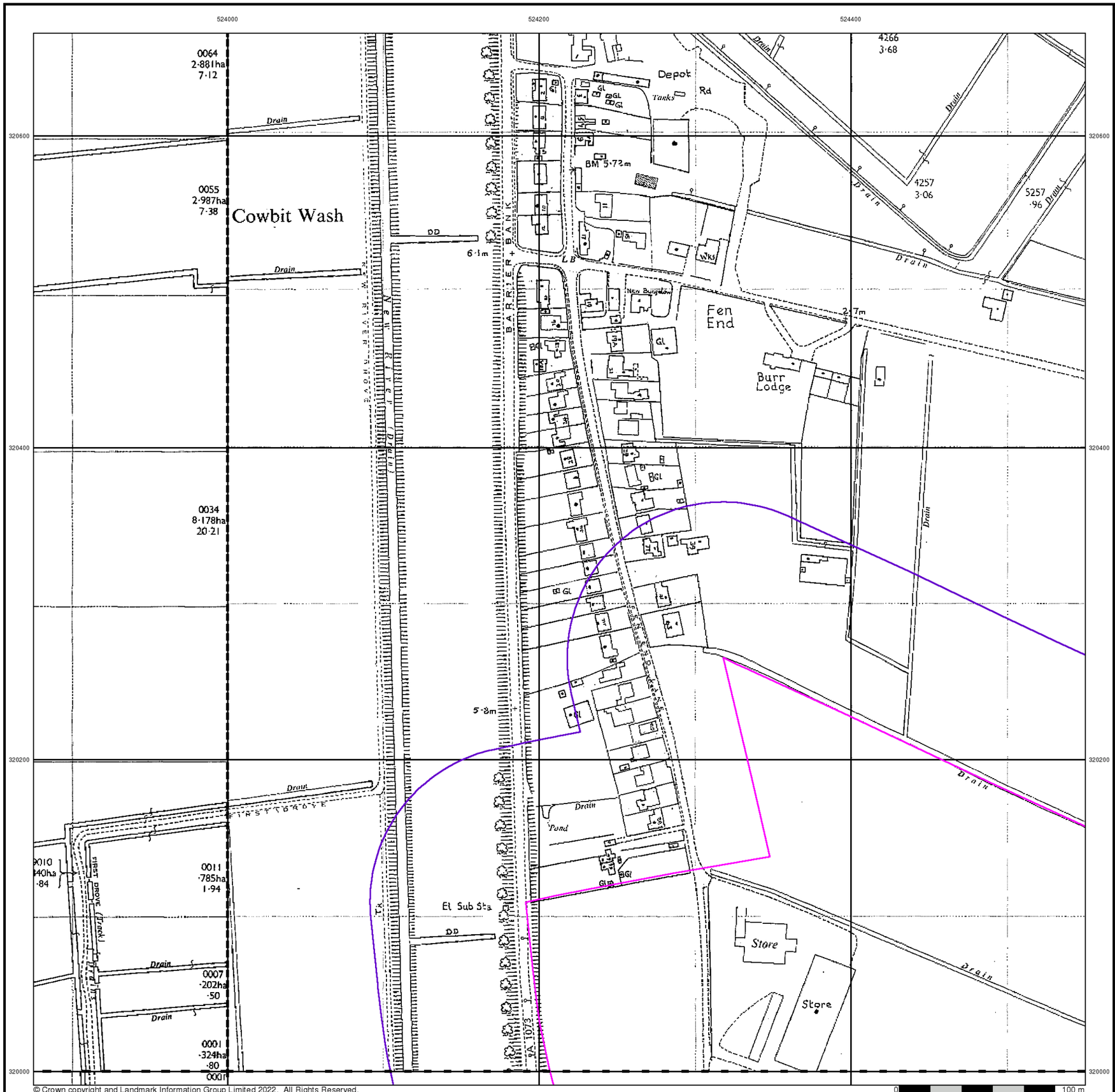
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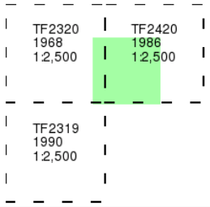
Additional SIMs

Published 1968 - 1990

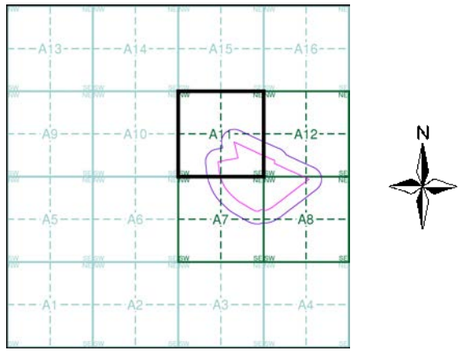
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

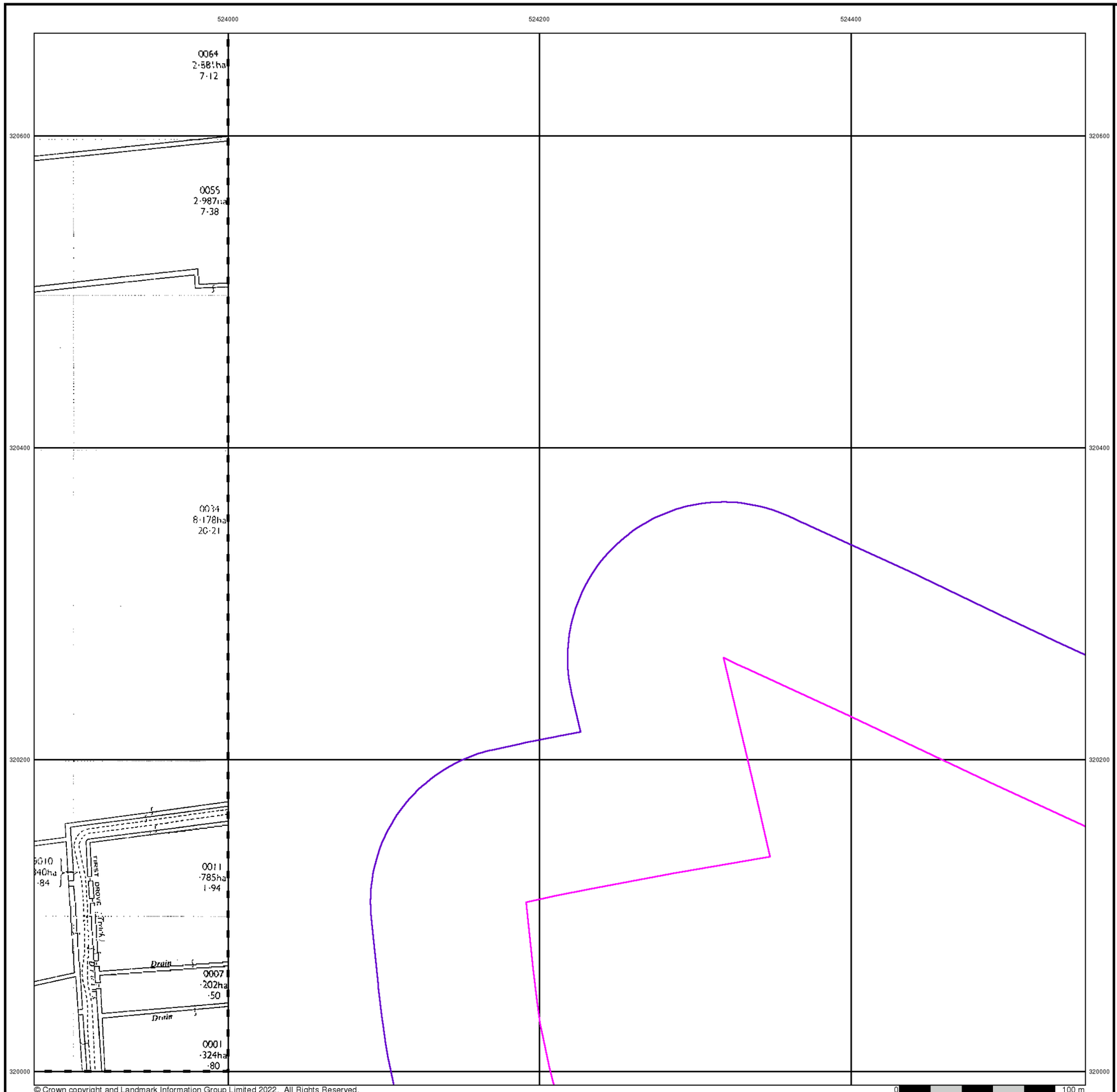
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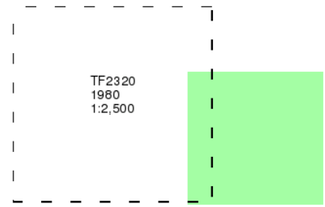
Additional SIMs

Published 1980

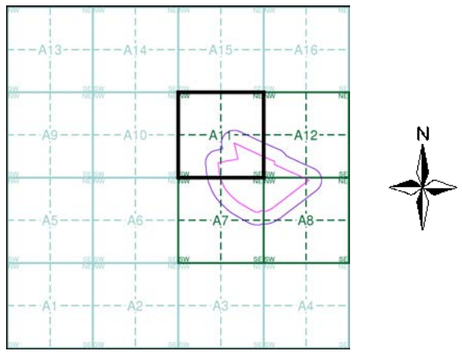
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

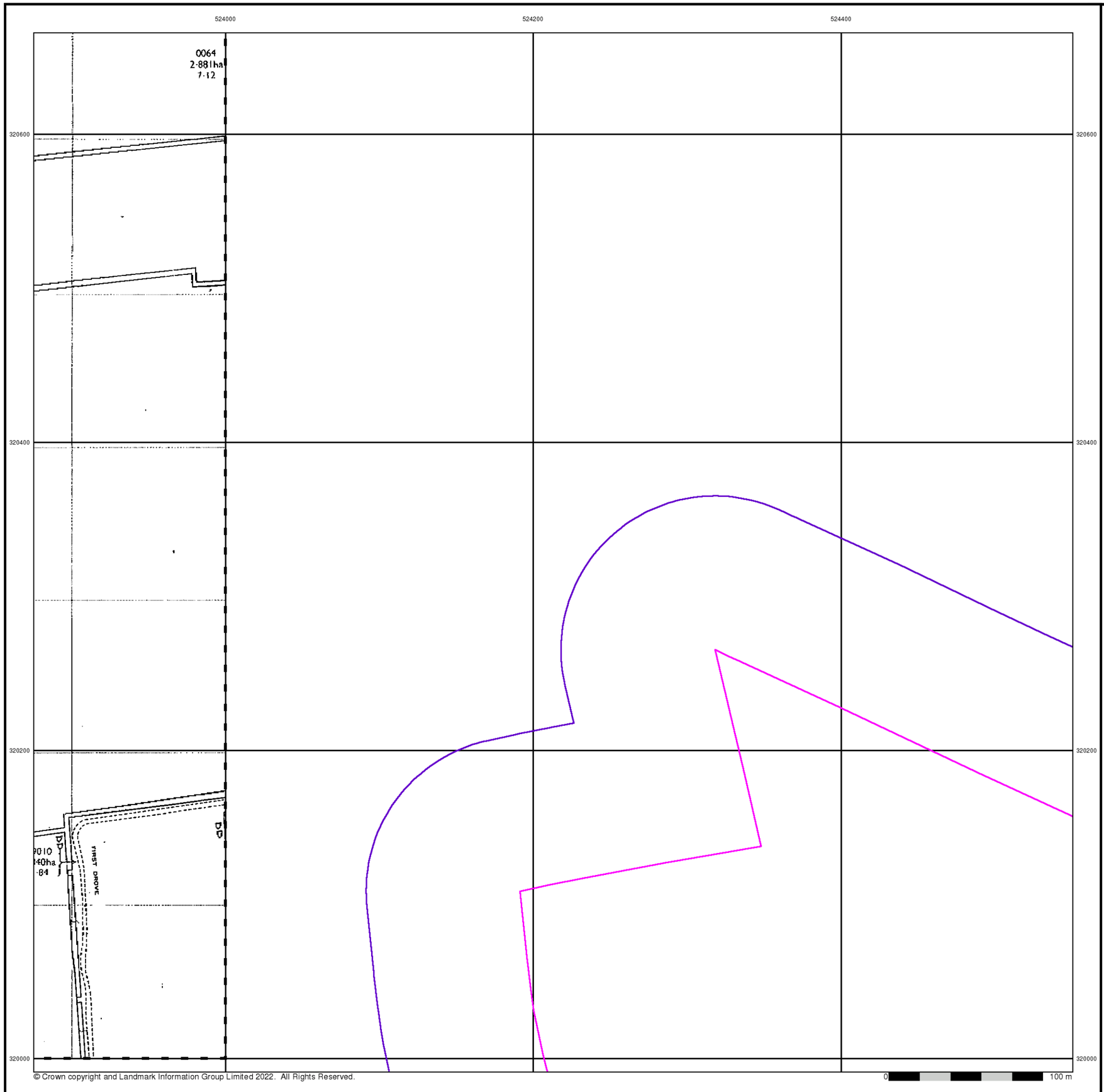
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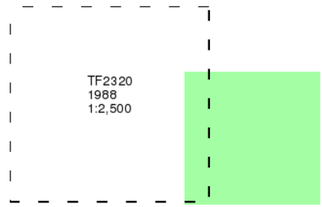
Additional SIMs

Published 1988

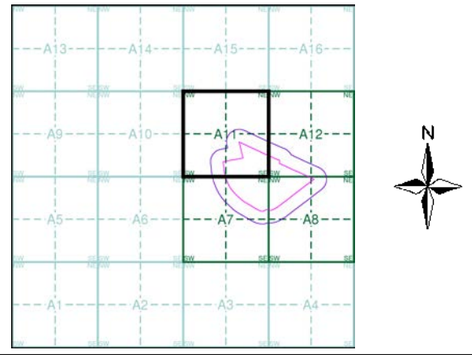
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

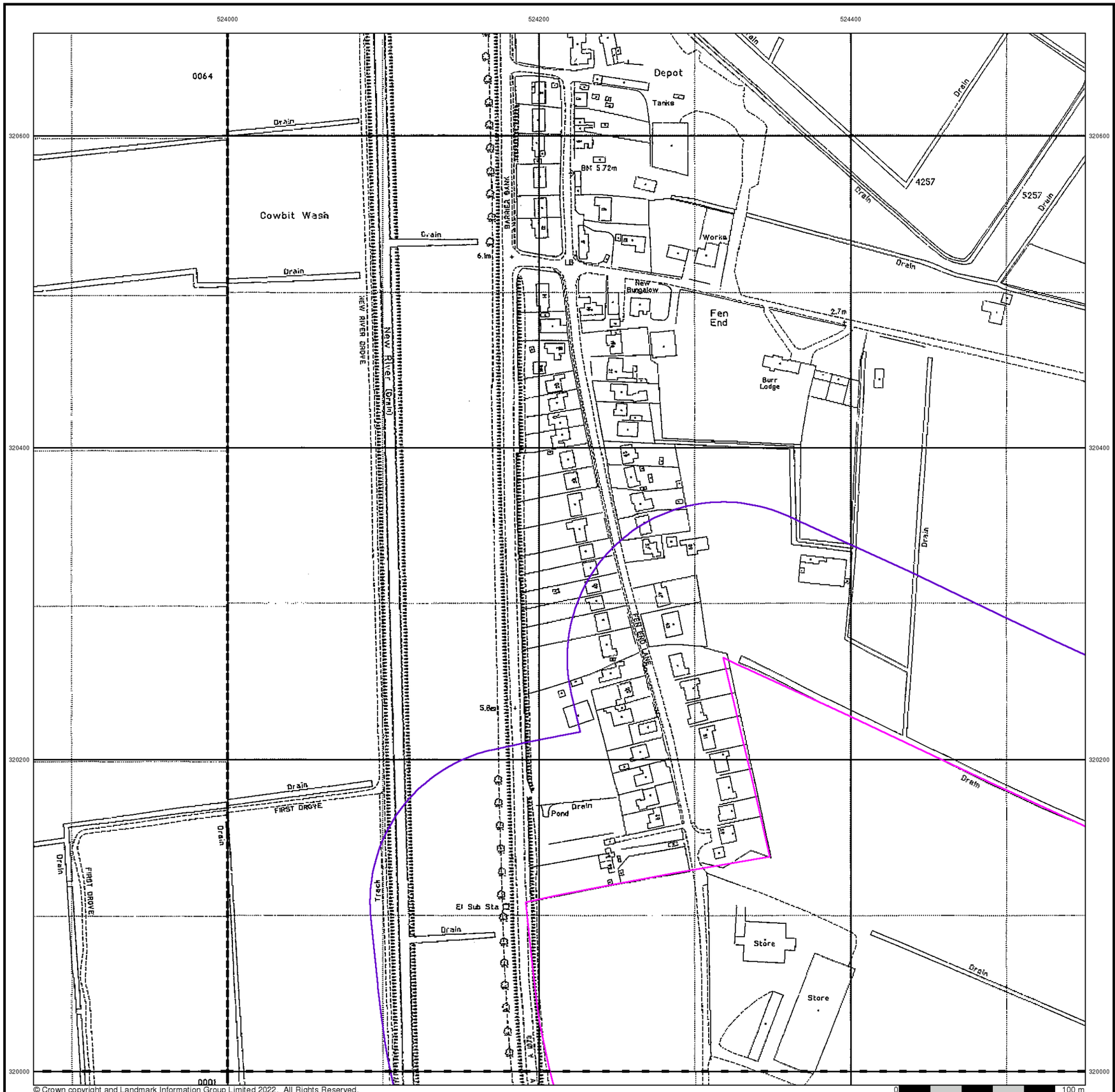
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Large-Scale National Grid Data

Published 1995

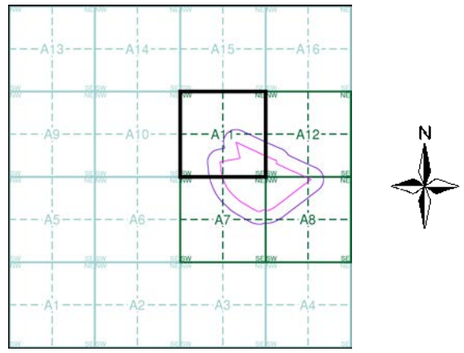
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TF2320 1995 1:2,500	TF2420 1995 1:2,500
TF2319 1995 1:2,500	TF2419 1995 1:2,500

Historical Map - Segment A11



Order Details

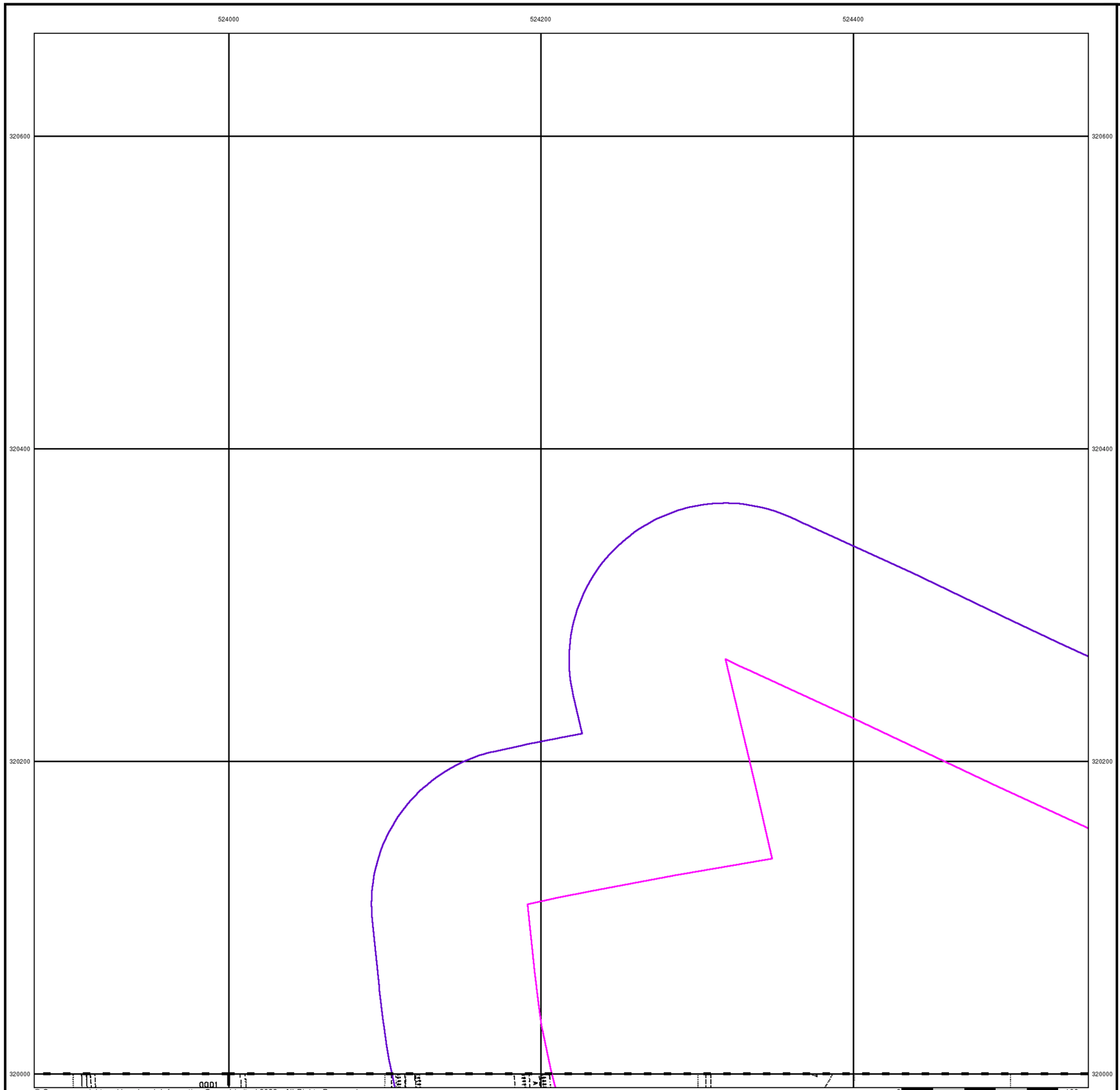
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Customer Ref:	46934
National Grid Reference:	524300, 320000
Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	100

Site Details

Site at 524540, 319980

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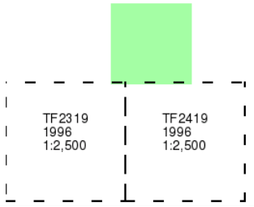
Large-Scale National Grid Data

Published 1996

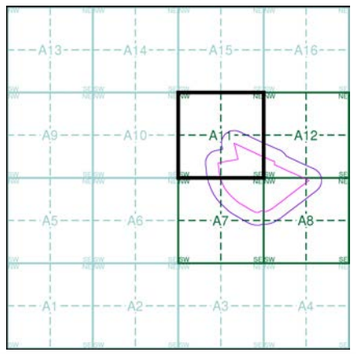
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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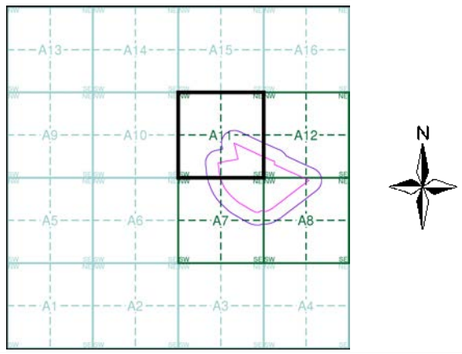
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A11



Order Details

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National Grid Reference:	524300, 320000
Slice:	A
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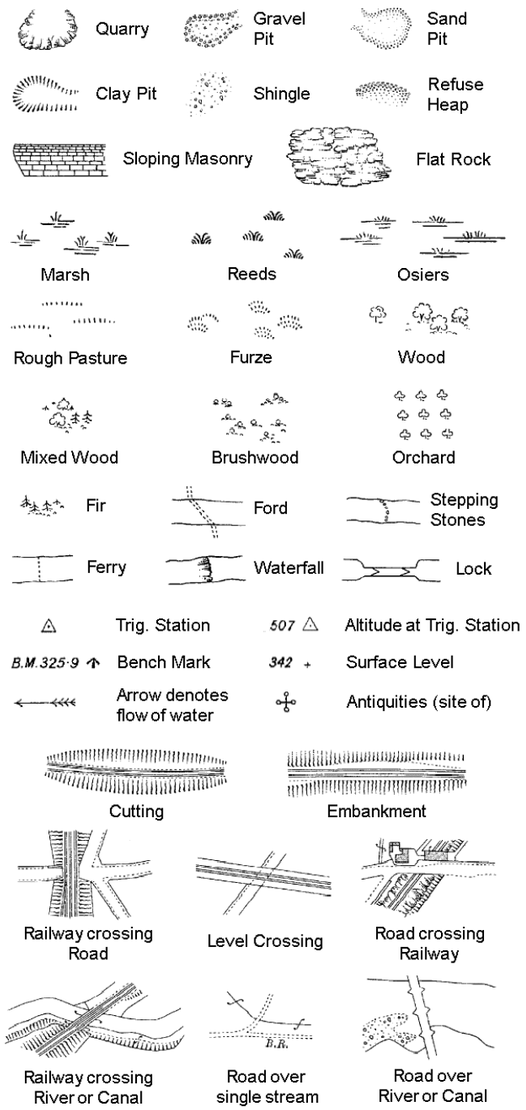
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

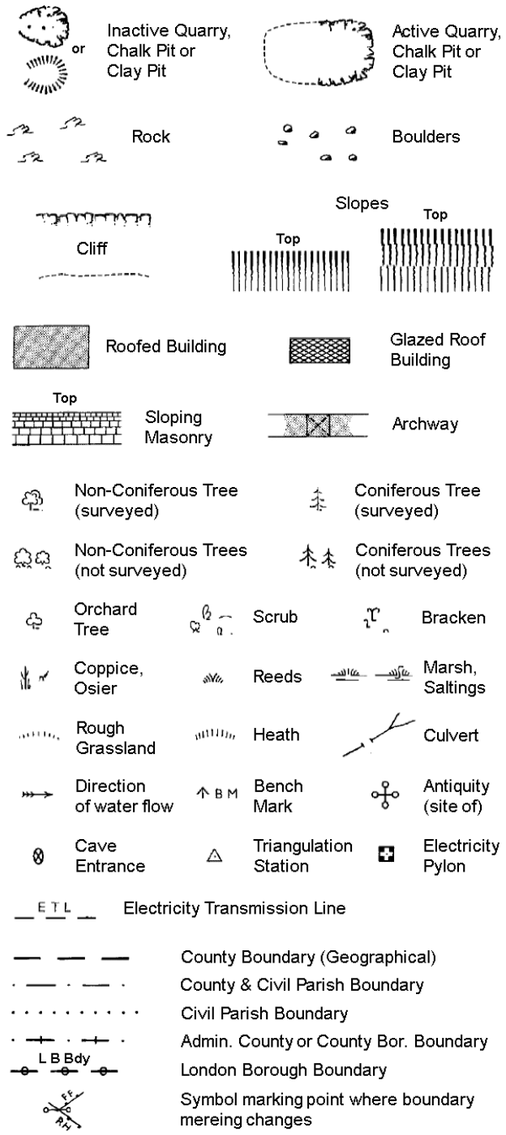
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

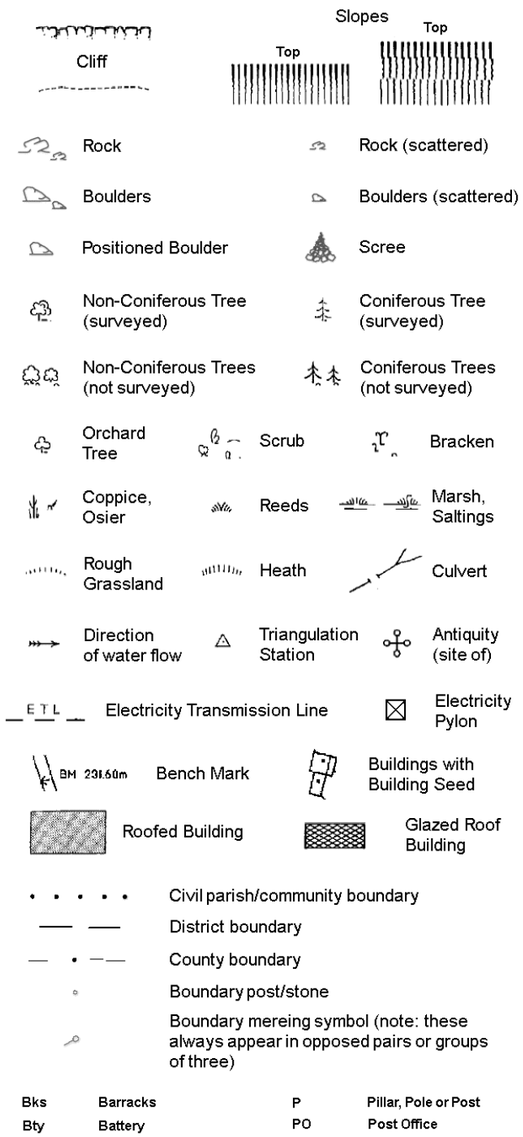
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

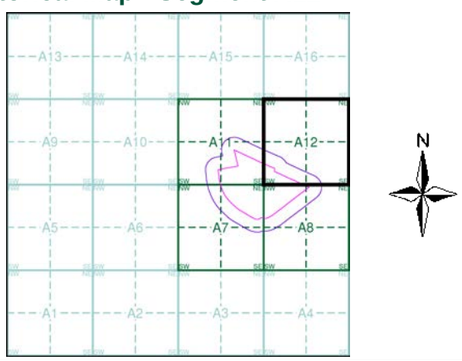
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1889	2
Lincolnshire	1:2,500	1904	3
Lincolnshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1968 - 1969	5
Additional SIMs	1:2,500	1986	6
Large-Scale National Grid Data	1:2,500	1995	7
Large-Scale National Grid Data	1:2,500	1996	8
Historical Aerial Photography	1:2,500	1999	9

Historical Map - Segment A12



Order Details

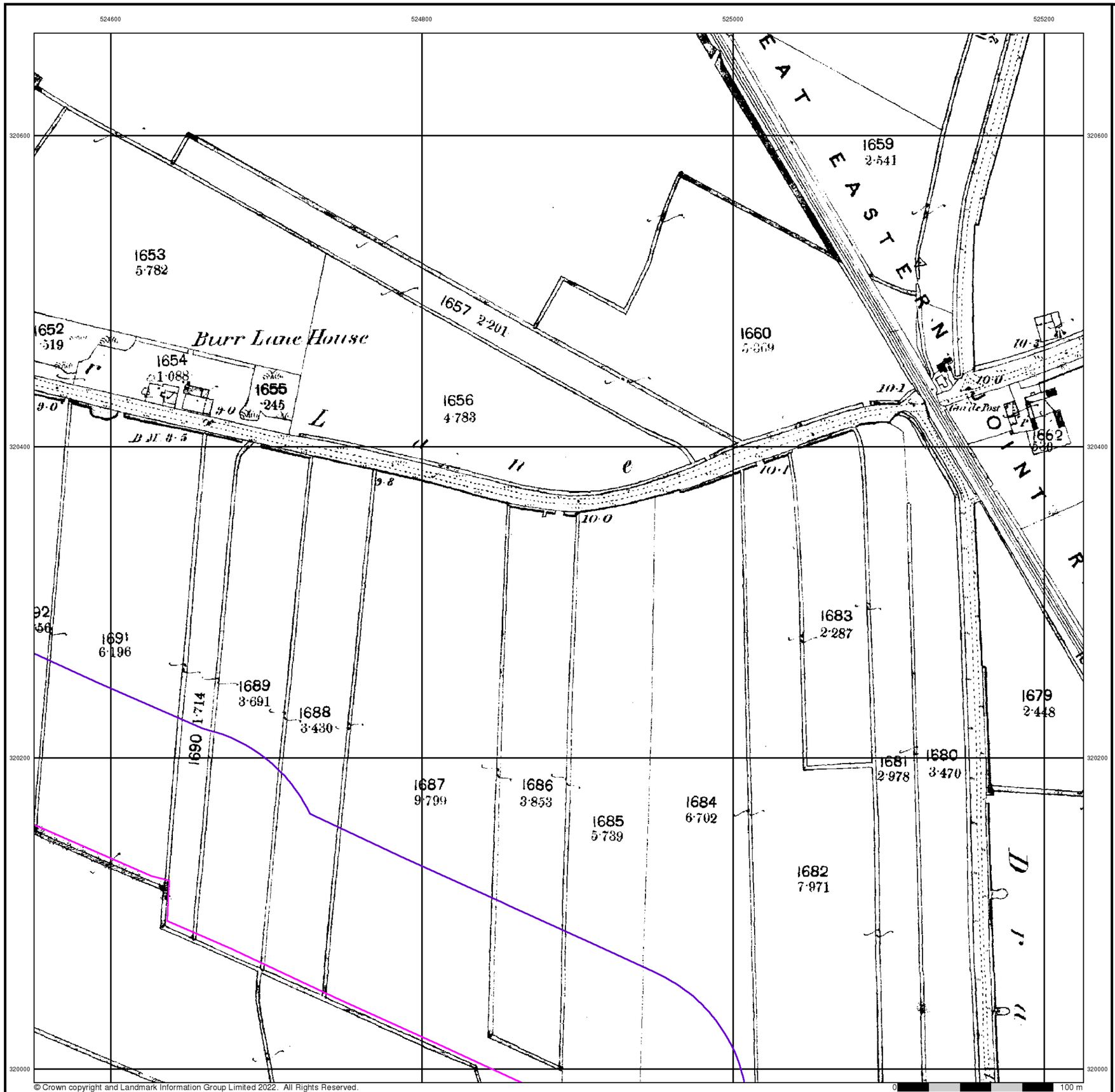
Order Number:	293435682_1_1
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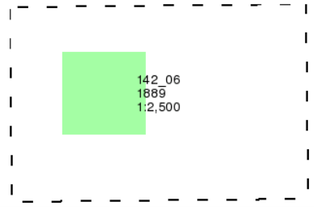
Lincolnshire

Published 1889

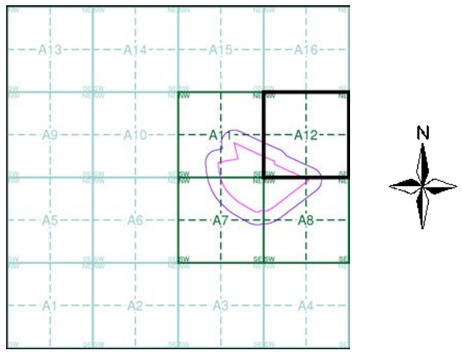
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

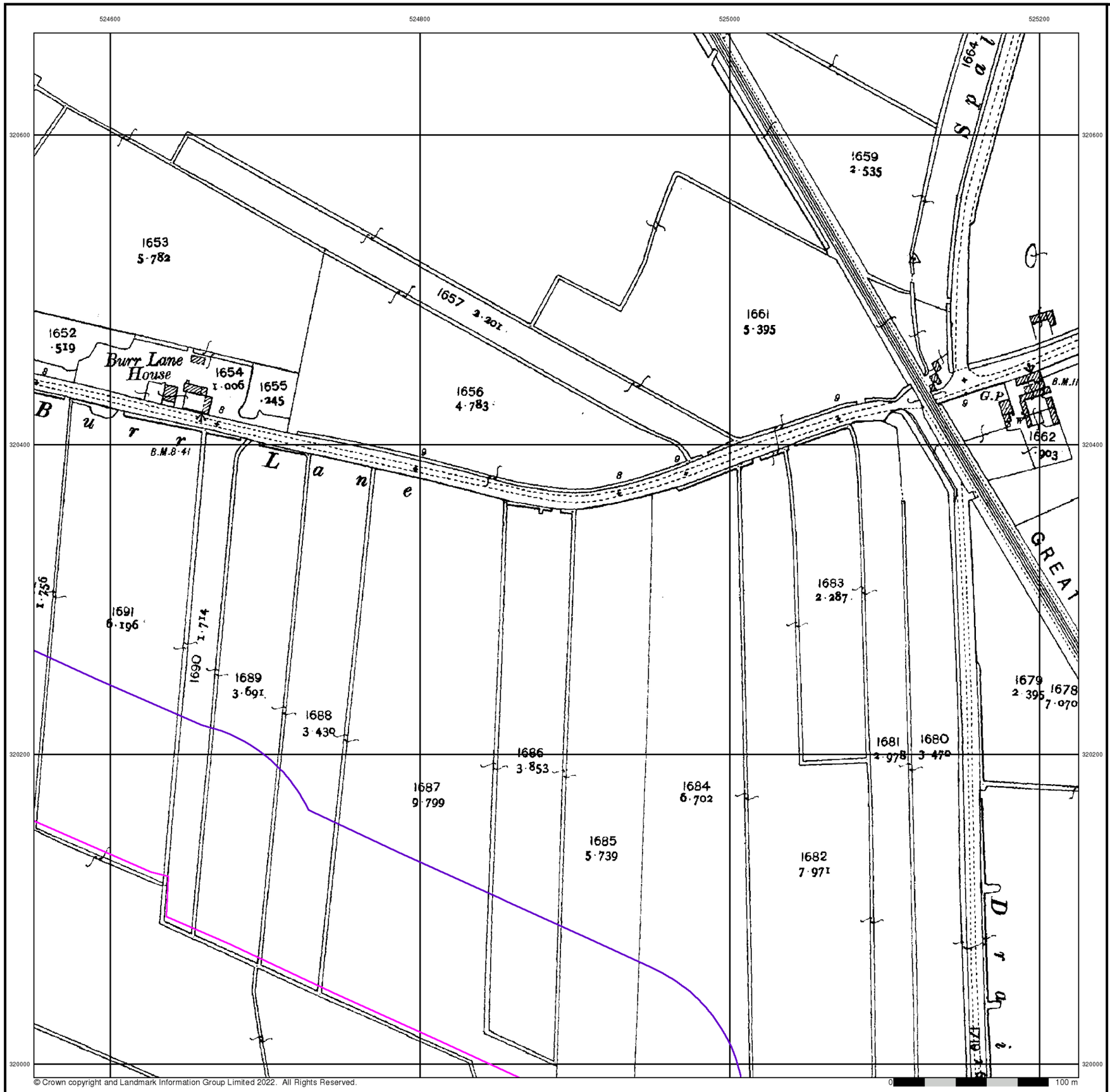
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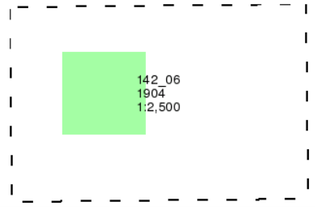
Lincolnshire

Published 1904

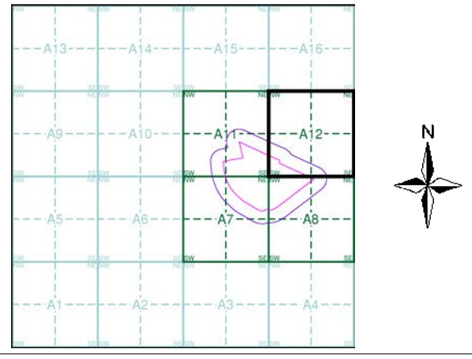
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

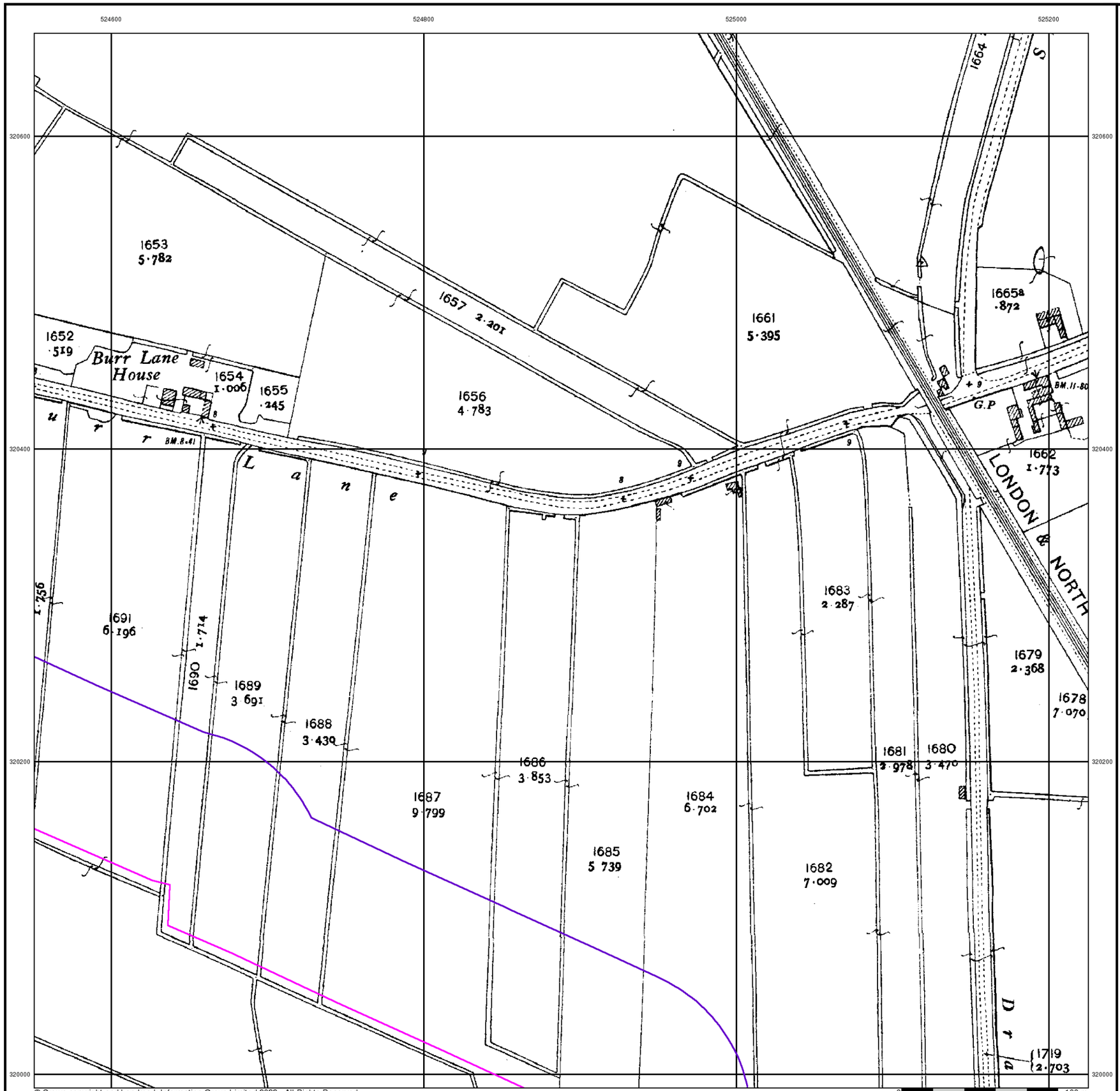
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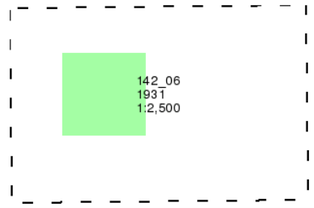
Lincolnshire

Published 1931

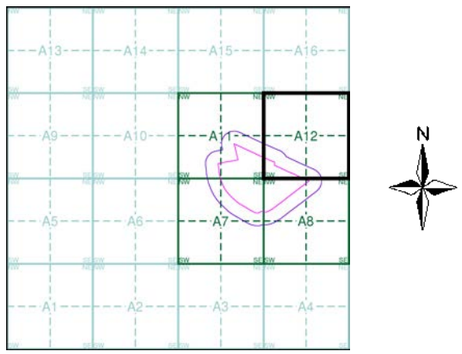
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

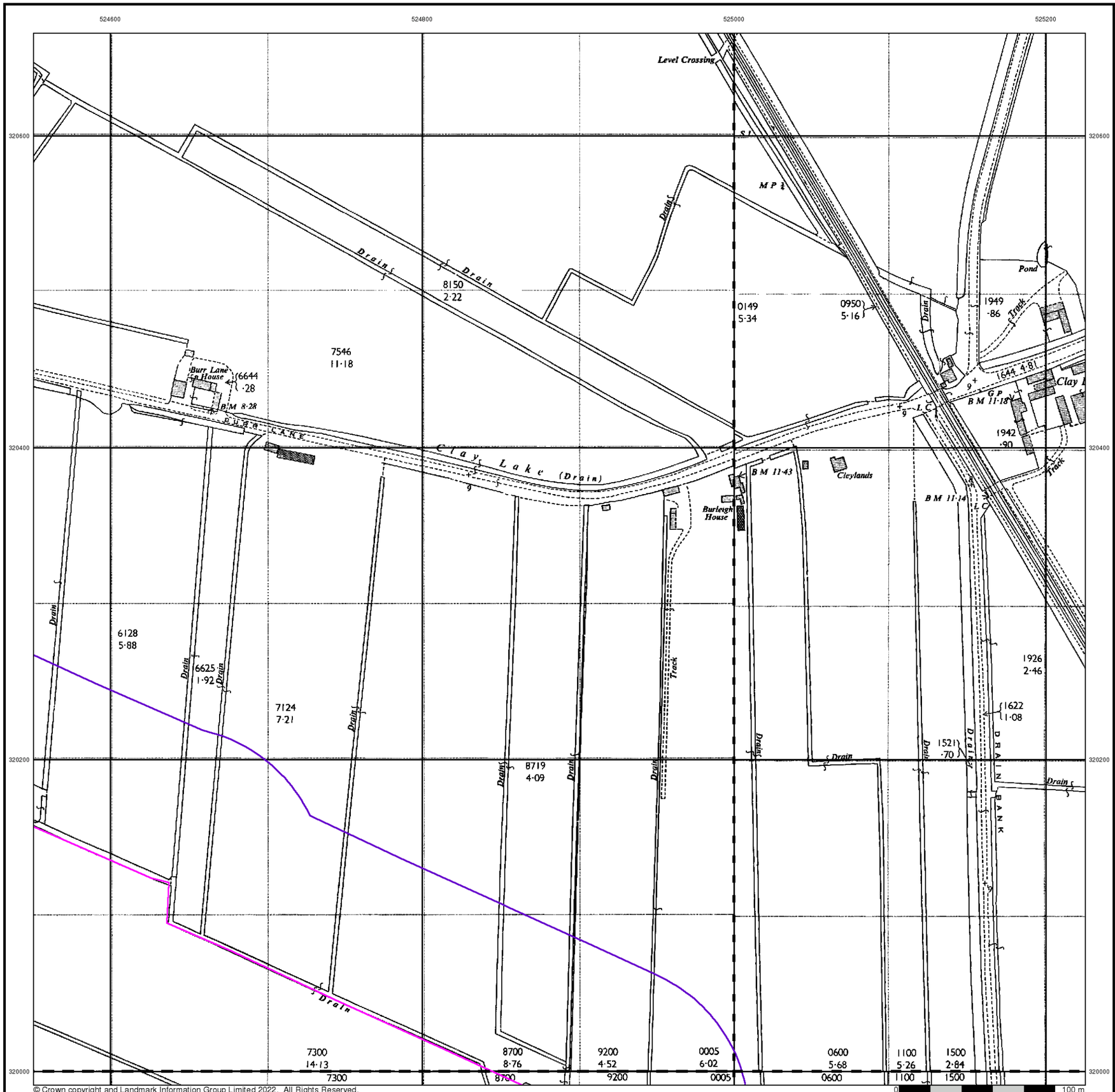
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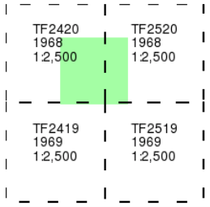
Ordnance Survey Plan

Published 1968 - 1969

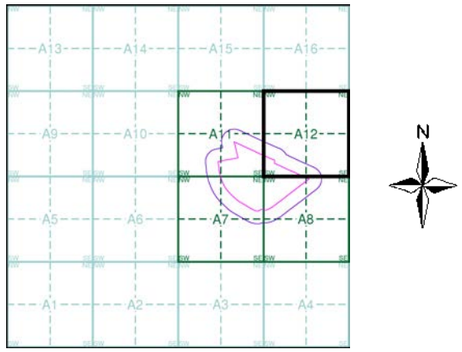
Source map scale - 1:2,500

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Historical Map - Segment A12



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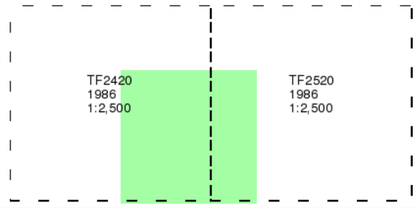
Additional SIMs

Published 1986

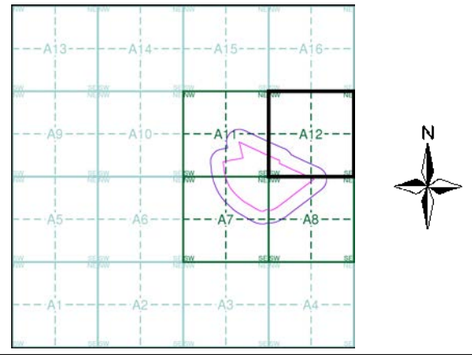
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

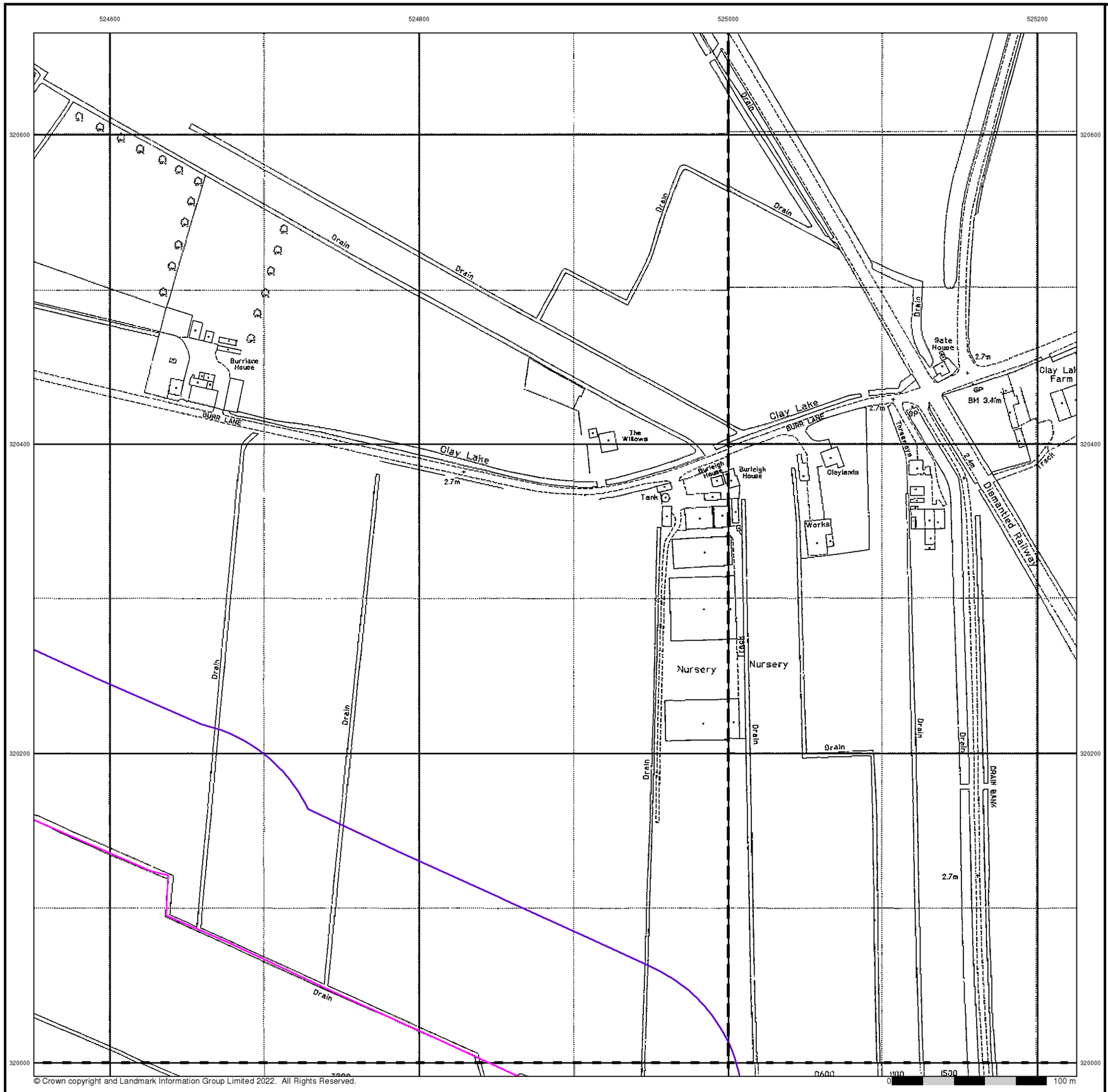
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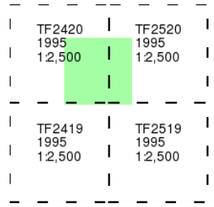
Large-Scale National Grid Data

Published 1995

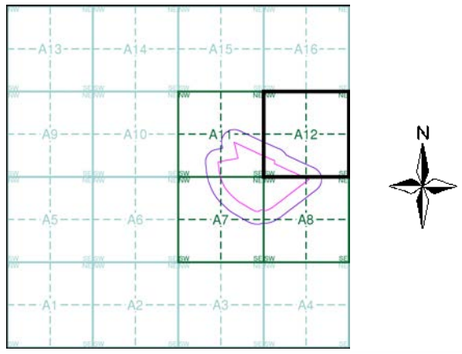
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

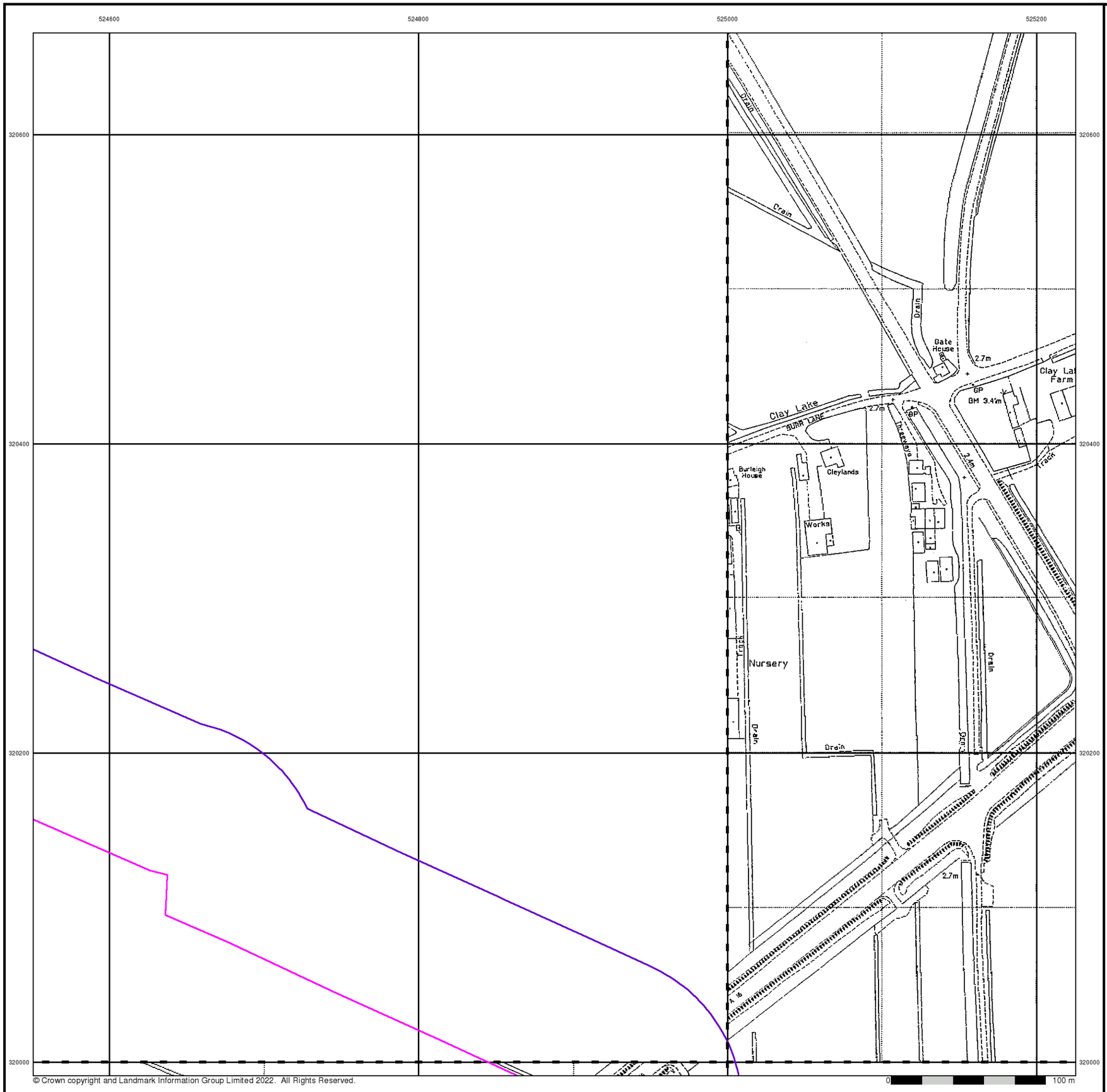
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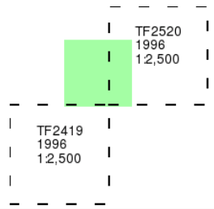
Large-Scale National Grid Data

Published 1996

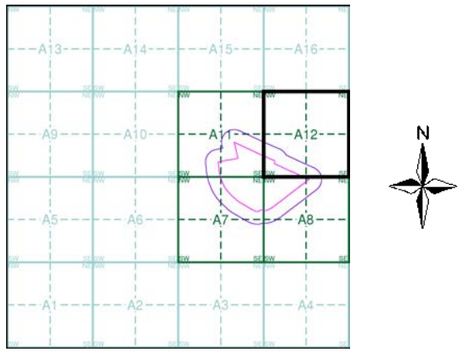
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

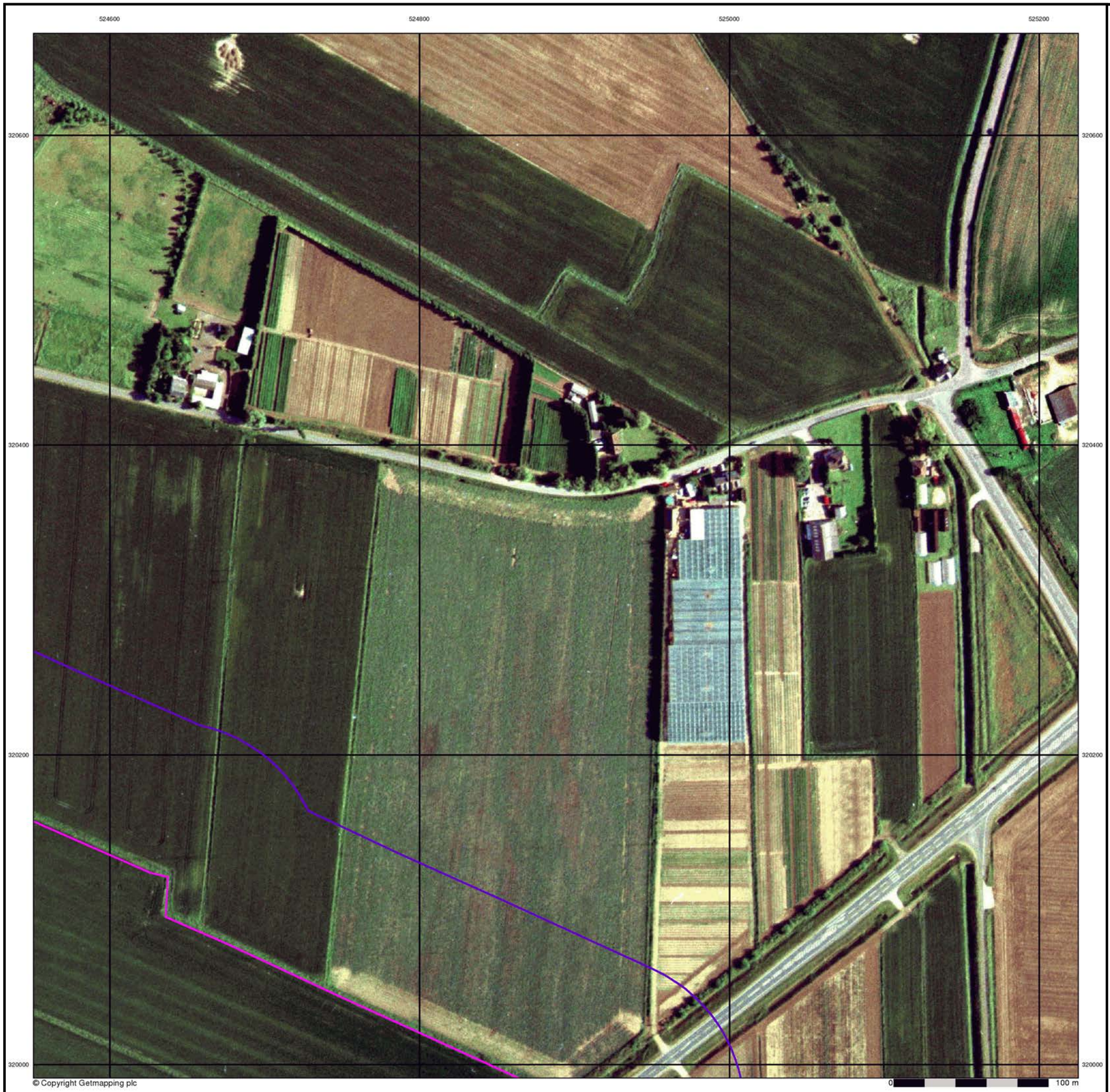
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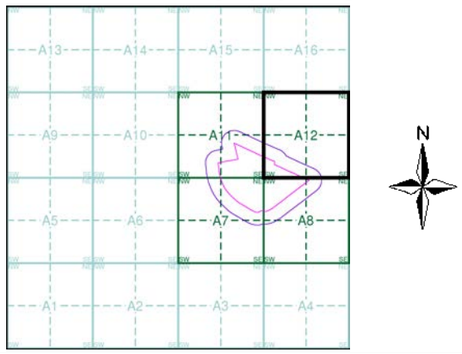
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A12



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Slice:	A
Site Area (Ha):	21.11
Search Buffer (m):	100

Site Details

Site at 524540, 319980

Landmark INFORMATION GROUP

Tel: 0844 844 9952
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Appendix 3

Trial Pit Logs, TP1 to TP33 & Stockpile Pits

Cable Percussive Borehole Logs, CP1 to CP12

Site Photographs

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TrialPit No
TP01
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524757.00 - 319919.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 4.00m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy silty CLAY.
			0.80			Soft brown silty sandy CLAY.
1.30	D					
1.30		HVP=18				
			1.80			Grey silty clayey fine grained SAND.
						Rare organic material from 3.5m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Groundwater not encountered.

Stability: Side collapse from 1.8m.

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TrialPit No
TP02
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524806.00 - 319991.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.20m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES					TOPSOIL: Brown slightly clayey sandy SILT.
			0.40			
0.60	ES					Greyish brown to orangish brown clayey silty fine grained SAND.
			2.20			Trialpit Complete at 2.200m

Remarks: Pit terminated at 2.2m at target depth for infiltration test. Groundwater not encountered.

Stability: Side collapse from surface during infiltration test.

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TrialPit No
TP03
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524726.00 - 319991.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.20m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy clayey SILT.
			0.70			
0.80	D					Soft brown to black silty sandy CLAY, with black organic material.
0.80	D					
0.80		HVP=30				
			1.20			
1.30	B					Greyish brown to orangish brown silty very clayey SAND.
			2.30			
						Grey clayey silty fine grained SAND.
			3.30			
						Soft to very soft grey silty sandy CLAY, with pockets of peat.
3.60		HVP=10				
			4.20			
						Trialpit Complete at 4.200m

Remarks: Pit terminated at 4.2m at maximum reach of excavator. Groundwater not encountered.

Stability: Side collapse from 1.2m.

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TrialPit No
TP04
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524748.00 - 320033.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: 3.10m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown silty sandy CLAY.
			0.60			Firm greyish brown to orangish brown silty sandy CLAY.
0.80 0.80	B	HVP=51				*Slow groundwater seepage at 0.8m.*
			1.40			
1.50	ES					Soft to very soft grey to orangish brown silty CLAY, with organic material and pockets of peat.
2.00		HVP=9				
			3.10			Trialpit Complete at 3.100m

Remarks: Pit terminated at 3.1m at target depth. Slow groundwater seepage at 0.8m.

Stability: Stable.

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TrialPit No
TP05
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524679.00 - 320012.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy silty CLAY.
0.30	ES					
			0.60			Firm becoming soft greyish brown to orangish brown silty sandy CLAY.
						Black organic material between 0.6 to 0.8m.
0.80	D					
0.80		HVP=43				
1.60		HVP=16				*Groundwater seepage at 1.6m.*
			1.80			Soft to very soft grey slightly sandy silty CLAY, with pockets of peat.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP06
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524700.00 - 320057.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 2.50m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Dark brown silty sandy CLAY.
			0.40			Firm brown silty sandy CLAY.
1.00		HVP=61				
			1.60			Very soft grey silty CLAY, with pockets of peat. *Groundwater seepage at 1.6m.*
2.40		HVP=6				
			2.50			Trialpit Complete at 2.500m

Remarks: Pit terminated at 2.5m at target depth. Groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP07
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524614.00 - 320040.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.90m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES					TOPSOIL: Brown slightly sandy clayey SILT.
			0.90			Greyish brown to orangish brown clayey silty fine grained SAND, with rare black organic material.
						Groundwater seepage at 1.4m.
			1.60			Soft to very soft grey slightly sandy silty CLAY, with pockets of peat.
1.80		HVP=9				
			3.90			Trialpit Complete at 3.900m

Remarks: Pit terminated at 3.9m at maximum reach of excavator. Groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP08
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524634.00 - 320083.00	Date
Lincs Gateway	46934	Level:	13/04/2052
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES		0.40			TOPSOIL: Brown clayey sandy SILT.
0.60	ES		0.70			Greyish brown to orangish brown clayey silty fine grained SAND.
0.95		HVP=26				Soft greyish brown to orangish brown silty sandy CLAY.
			1.50			*Slow groundwater seepage at 1.4m.*
1.60 1.60	ES	HVP=16				Soft to very soft greyish brown to grey silty CLAY, with occasional organic material and pockets of peat (frequency increases with depth).
			3.50			Trialpit Complete at 3.500m

Remarks: Pit terminated at 3.5m at maximum reach of excavator. Slow groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP09
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524551.00 - 320064.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.80m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.00			TOPSOIL: Brown slightly sandy clayey SILT.
			0.60			Greyish brown to orangish brown clayey silty fine grained SAND.
0.80	D					
			1.40			Soft greyish brown to orangish brown silty CLAY. Partially lithified/desiccated where roots/dead roots present.
1.60	B					*Fast groundwater seepage at 1.6m.*
1.80		HVP=15				
			2.10			Soft to very soft grey silty CLAY, with pockets of peat.
			3.80			Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m at maximum reach of excavator. Fast groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP10
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524581.00 - 320131.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 4.00m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES		0.30			TOPSOIL: Brown slightly clayey sandy SILT.
			0.90			Greyish brown to orangish brown silty fine grained SAND.
1.20	B		1.40			Firm greyish brown silty CLAY. *Black organic material at 1.2m.*
1.50		HVP=14	4.00			Soft to very soft grey silty CLAY, with organic material. *Slow groundwater seepage at 1.8m.* Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Slow groundwater seepage at 1.8m.

Stability: Stable.

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TrialPit No
TP11
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524469.00 - 320109.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.10m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.30	ES		0.40			TOPSOIL: Dark brown silty sandy CLAY.
						Greyish brown to orangish brown slightly clayey silty fine grained SAND.
1.10		HVP=28	1.00			Soft grey silty CLAY, with pockets of peat. Reddish brown and desiccated around roots/dead roots. Abundance of peat and other organic material increases with depth.
1.20	ES					*Slow groundwater seepage at 1.4m.*
			4.10			Trialpit Complete at 4.100m

Remarks: Pit terminated at 4.1m at maximum reach of excavator. Slow groundwater seepage at 1.4m.

Stability: Stable.

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TrialPit No
TP12
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524489.00 - 320173.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.20	ES		0.30			TOPSOIL: Brown slightly clayey sandy SILT.
0.60	ES		0.80			Greyish brown to orangish brown silty fine grained SAND.
1.00		HVP=26	1.40			Soft greyish brown silty CLAY.
1.50	D					Soft to very soft grey silty CLAY, with organic material.
3.00		HVP=7	3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP13
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524400.00 - 320139.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.90m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
			0.50			TOPSOIL: Brown clayey sandy SILT.
0.80	ES					Firm greyish brown to orangish brown silty sandy CLAY.
0.90		HVP=51				
			1.30			Soft greyish brown silty CLAY.
						Slow groundwater seepage at 1.5m.
			1.90			Very soft grey silty CLAY, with organic material.
2.00		HVP=11				
			2.90			Trialpit Complete at 2.900m

Remarks: Pit terminated at 2.9m at target depth. Slow groundwater seepage at 1.5m.

Stability: Stable.

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TrialPit No
TP14
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524423.00 - 320206.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 1.70m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy very clayey SILT.
			0.40			Greyish brown to orangish brown silty fine grained SAND.
			1.20			Soft to very soft greyish brown to grey silty CLAY. Reddish brown and desiccated around roots/dead roots.
1.30 1.30	D	HVP=17				*Slow groundwater seepage at 1.5m.*
			1.70			Trialpit Complete at 1.700m

Remarks: Pit terminated at 1.7m at target depth for infiltration test. Slow groundwater seepage at 1.5m.

Stability: Stable.

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TrialPit No
TP15
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524353.00 - 320196.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.80m m	Logged RG

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown clayey sandy SILT.
0.30	ES					
			0.50			Firm greyish brown to orangish brown silty sandy CLAY.
1.10		HVP=61				
			1.20			Soft to firm greyish brown silty CLAY.
1.30	B					
1.30	D					
						Slow groundwater seepage at 1.m.
			2.20			Very soft grey silty CLAY, with organic material.
2.50		HVP=11				
			3.80			Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m at maximum reach of excavator. Slow groundwater seepage at 1.6m.

Stability: Stable.

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TrialPit No
TP16
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524709.00 - 319918.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.40m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.30			Stiff locally firm brown sandy CLAY.
0.50	ES					
			1.10			Light brown mottled orange silty fine grained SAND. Locally soft sandy silt.
			1.40			Light brown very thinly bedded slightly silty fine grained SAND.
						Slightly wet below 1.6m.
			2.30			Grey mottled brown slightly silty fine grained SAND. Slightly wet.
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Side slumping at 2.3m

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TrialPit No
TP17
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524648.00 - 319946.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 3.20m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown mottled orange slightly silty fine to medium grained SAND.
			1.00			Light brown very silty fine to medium grained SAND. Slightly wet.
						Land drain encountered at 1.2m.
1.50	B					
			2.10			Grey and occasionally mottled brown slightly silty fine grained SAND. Wet.
2.20	D					
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m due to side collapse from 1.1m. Groundwater not encountered.

Stability: Side collapse from 1.1m.

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TrialPit No
TP18A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524570.00 - 319975.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown mottled orange very silty fine grained SAND.
						Land drain encountered at 0.9m.
			1.10			Soft brown to grey slightly sandy silty CLAY. Occasionally slightly wet.
1.50		HVP=31				
			2.10			Very soft bluish grey silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat and rotting plant material. Slightly wet.
						Slight groundwater ingress at 2.1m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of excavator. Slight groundwater ingress at 2.1m. TP18B excavated adjacent to TP18A for soakaway test.

Stability: Stable.

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TrialPit No
TP18B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524570.00 - 319975.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 0.90m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.30			Stiff grey slightly sandy CLAY.
			0.45			Light brown very silty fine grained SAND.
			0.70			Stiff brown and grey slightly sandy CLAY.
			0.90			Trialpit Complete at 0.900m

Remarks: Pit terminated at 0.9m at target depth for infiltration test. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP19
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524495.00 - 320004.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 2.20m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.30			Light brown slightly silty fine grained SAND.
			0.90			Soft brown and grey slightly sandy silty CLAY. *Land drain encountered at 0.9m.* *Slight groundwater ingress at 1.1 m.*
1.40 1.40	D	HVP=26				
			2.00			Very soft bluish grey silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat and rotting plant material. Slightly wet.
			2.20			Trialpit Complete at 2.200m

Remarks: Pit terminated at 2.2m at target depth. Slight groundwater ingress at 1.1 m.

Stability: Stable.

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TrialPit No
TP20
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524406.00 - 320037.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.70m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown gravelly SAND. Gravel of fine to coarse, angular brick and chert.
			0.40			
0.50	ES					MADE GROUND: Stiff brown CLAY, with occasional plastic.
			0.65			Light brown to grey silty fine grained SAND.
			0.80			Stiff grey mottled brown slightly sandy CLAY. Locally firm and slightly wet.
1.00		HVP=86				
			1.20			Firm brown silty CLAY. Slightly wet.
1.40		HVP=51				
						Soft below 1.6m.
1.70		HVP=22				
			2.40			Very soft grey silty CLAY, with frequent rotting plant material. Slightly wet.
2.90		HVP=16				
			3.70			Trialpit Complete at 3.700m

Remarks: Pit terminated at 3.7m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP21
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524355.00 - 320062.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown slightly gravelly sandy CLAY. Gravel of fine to coarse, angular brick and chert. Gravel of brick, limestone and chert at surface.
			0.70			MADE GROUND: Brown slightly sandy CLAY, with pockets of light brown sandy silt. Frequent glass bottles and glass shards.
			1.00			Light greyish brown very silty fine grained SAND, with frequent gravel-sized pockets of dark brown amorphous peat.
1.20	ES					
			1.50			Very soft grey silty CLAY, with frequent gravel-sized pockets of dark brown pseudo-fibrous peat. Slightly wet.
1.70 1.70	D	HVP=19				
						Peat absent below 2.0m and frequent rotten plant material present.
			3.50			Trialpit Complete at 3.500m

1
2
3
4

Remarks: Pit terminated at 3.5m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP22
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524348.00 - 320001.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.70m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown very gravelly SAND, with low cobble content. Gravel of fine to coarse, angular limestone, chert and brick. Cobbles of limestone.
			0.35			MADE GROUND: Grey fine grained SAND.
			0.50			Southern half of pit - MADE GROUND: Greyish brown slightly silty slightly sandy slightly gravelly CLAY, with occasional gravel to cobble-sized pockets of dark grey to black clay and rotting plant material. Gravel of fine to coarse, angular limestone and brick. Rare wood fragments.
						Northern half of pit (0.5-1.4m) - Light brown slightly clayey slightly silty fine grained SAND.
0.90	ES					*Land drain encountered at 0.6m.*
			1.60			Soft brown silty CLAY. Encountered from 1.4m below northern half of pit.
1.80		HVP=23				
1.90	B					
			2.00			Soft greyish brown silty CLAY, with frequent gravel-sized pockets of dark grey fibrous peat. Slightly wet.
2.50		HVP=20				
						Peat pockets become less frequent from 3.0m.
			3.70			Trialpit Complete at 3.700m

Remarks: Pit terminated at 3.7m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP23
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524382.00 - 319953.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.20m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL/MADE GROUND: Brown clayey gravelly SAND. Gravel of fine to coarse, angular chert and limestone with occasional brick, macadam and clinker.
			0.40			
0.50	ES					Light brown fine grained SAND.
			0.80			
						Soft brown silty CLAY.
1.20		HVP=29				
						Slight groundwater ingress at 1.5 m.
			2.30			
2.50		HVP=11				Very soft greyish brown silty CLAY, with frequent gravel-sized pockets of dark brown fibrous peat. Slightly wet.
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m at target depth. Slight groundwater ingress at 1.5m.

Stability: Stable.

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TrialPit No
TP24
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524462.00 - 319920.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.60m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown sandy CLAY.
			0.35			Light brown mottled orangish brown slightly silty fine grained SAND.
			0.60			Soft light brown sandy CLAY.
			1.40			Very soft brown silty CLAY.
						Slight groundwater seepage at 1.5 m.
1.60		HVP=22				
			2.20			Very soft greyish brown silty CLAY, with frequent rotten plant material.
2.40	B					
2.60		HVP=16				
			3.60			Trialpit Complete at 3.600m

Remarks: Pit terminated at 3.6m at target depth. Slight groundwater seepage at 1.5 m.

Stability: Stable.

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TrialPit No
TP25
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524538.00 - 319897.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.20m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Light brown fine grained SAND.
0.50	ES					
			0.65			Light brown very thinly bedded silty fine grained SAND.
						Very silty below 1.6m and slightly wet.
			2.30			Grey mottled brown silty fine grained SAND, with occasional rotten plant material.
			3.20			Trialpit Complete at 3.200m

Remarks: Pit terminated at 3.2m due to side collapse from 0.4m. Groundwater not encountered.

Stability: Side collapse from 0.4m.

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TrialPit No
TP26
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524606.00 - 319868.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 2.30m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown slightly sandy CLAY.
			0.35			
0.50	D					Stiff brown slightly sandy CLAY.
			0.80			Light brown very silty fine grained SAND. Locally slightly wet.
						Land drain encountered at 0.9m.
			1.40			
1.50		HVP=18				Soft light brown very sandy SILT. Slightly wet.
			2.10			Grey mottled orange brown silty fine grained SAND. Slightly wet.
			2.30			Trialpit Complete at 2.300m

Remarks: Pit terminated at 3.2m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP27
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524679.00 - 319849.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.50m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.35			Stiff grey mottled brown closely fissured CLAY.
0.70	ES		0.65			Light brown to brown clayey silty fine grained SAND.
						No clay below 1.2m.
			2.00			Grey mottled brown slightly silty fine grained SAND. Locally very silty. Occasionally slightly wet.
2.40	B					*Very silty and slightly wet below 2.8m.*
			3.50			Trialpit Complete at 3.500m

Remarks: Pit terminated at 3.5m due to side collapse from surface. Groundwater not encountered.

Stability: Side collapse from surface.

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TrialPit No
TP28
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524360.00 - 319898.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 4.00m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brown very gravelly SAND, with low cobble content and occasional cobble-sized pockets of sandy clay. Gravel of brick, limestone and chert. Cobbles of brick. Occasional plastic.
			0.40			MADE GROUND: Stiff grey slightly sandy CLAY.
			0.65			MADE GROUND: Brown very gravelly SAND, with low cobble content and occasional cobble-sized pockets of sandy clay. Gravel of brick, limestone and chert. Cobbles of brick. Occasional plastic.
			0.80			Light brown silty fine to medium grained SAND.
0.90	D					*Slightly clayey from 0.8 to 1.0m.*
			1.60			Very soft greyish brown clayey sandy SILT. Occasionally slightly wet.
1.80		HVP=20				
						Slight groundwater ingress at 2.5m. and brief groundwater ingress at 3.0m.
			2.60			Very soft grey clayey SILT, with occasional rotten plant material.
2.80		HVP=20				
						Brief groundwater ingress at 3.0m.
			4.00			Trialpit Complete at 4.000m

Remarks: Pit terminated at 4.0m at maximum reach of the excavator. Slight groundwater ingress at 2.5m and brief groundwater ingress at 3.0m.

Stability: Minor side collapse from 1.6 to 2.5m.

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TrialPit No
TP29
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524431.00 - 319867.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.35			Firm grey mottled orange brown sandy CLAY.
0.70	ES					
			1.35			Soft brown clayey SILT. Locally slightly sandy.
1.50 1.50	D	HVP=22				
			1.80			Brown mottled grey silty fine grained SAND.
			2.10			Grey slightly silty fine grained SAND.
			2.70			Very soft grey clayey SILT, with occasional rotten plant material.
3.00		HVP=19				
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m due to side collapse from 0.8m. Groundwater not encountered.

Stability: Side collapse from 0.8m.

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TrialPit No
TP30
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524505.00 - 319834.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 3.80m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown very clayey SAND.
			0.35			
0.50	ES					Firm light brown mottled orange brown sandy CLAY.
			1.20			
						Light brown very thinly bedded slightly silty fine grained SAND.
			2.20			
						Grey slightly silty fine grained SAND. Slightly wet.
			3.80			
						Trialpit Complete at 3.800m

Remarks: Pit terminated at 3.8m due to developing side instability at 2.2m. Groundwater not encountered.

Stability: Developing side instability at 2.2m. Side collapse from surface during backfilling.

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TrialPit No
TP31
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524582.00 - 319798.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown CLAY.
			0.30			Stiff brown closely fissured CLAY.
1.00 1.00	D	HVP=110				
			1.35			Very soft brown slightly clayey sandy SILT.
1.50		HVP=17				
			1.90			Light brown slightly silty fine grained SAND.
			2.50			Light grey slightly silty fine SAND, with rare rotten plant material. Slightly wet.
			3.40			Trialpit Complete at 3.400m

Remarks: Pit terminated at 3.4m at target depth. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP32
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524507.00 - 319769.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 3.80m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					TOPSOIL: Brown slightly sandy CLAY.
			0.30			
0.40	ES					Stiff grey and brown slightly sandy CLAY.
			0.50			Firm orangish brown sandy CLAY. Locally clayey sand.
			0.70			Firm light brown slightly sandy thickly bedded CLAY.
			1.00			Very soft light brown sandy SILT. Locally silty fine grained sand, with occasional rotten plant material. Slightly wet.
1.50		HVP=18				
1.70	B					
			2.20			Grey very silty fine grained SAND. Locally soft sandy silt. Slightly wet.
			3.80			Trialpit Complete at 3.800m

1
2
3
4

Remarks: Pit terminated at 3.8m at maximum reach of excavator. Groundwater not encountered.

Stability: Stable.

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TrialPit No
TP33A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524433.00 - 319814.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 2.00m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy SILT.
			0.35			Light brown silty fine grained SAND.
0.60	ES					*Orange mottling from 0.9 to 1.2m.*
			1.20			Light brown thickly bedded slightly silty fine grained SAND. Locally very silty. Slightly wet.
			2.00			Trialpit Complete at 2.000m

Remarks: Pit terminated at 2.0m due to side slumping below 1.3m. Slight groundwater seepage at 2.0m. TP33B excavated adjacent to TP33A for soakaway test.

Stability: Side slumping below 1.3m.

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TrialPit No
TP33B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524433.00 - 319814.00	Date
Lincs Gateway	46934	Level:	13/04/2022
Location: Spalding		Dimensions: m	Scale 1:25
Client: Alcan Properties Limited		Depth: 0.95m m	Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						TOPSOIL: Brown sandy SILT.
			0.30			Light brown mottled orangish brown silty fine grained SAND.
			0.95			Trialpit Complete at 0.950m

Remarks: Pit terminated at 0.95m at target depth for infiltration test. Groundwater not encountered.

Stability: Stable.

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TrialPit No
Stockpile Pit A
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524339.00 - 320034.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: 1.40m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	B					MADE GROUND: Brown slightly clayey very gravelly SAND with low cobble content. Gravel of chert, limestone and brick with cobbles of limestone. Occasional plastic.
			0.50			MADE GROUND: Firm to stiff greyish brown slightly gravelly sandy CLAY. Gravel of fine to coarse, angular limestone and brick. Occasional dark brown pockets of clay and rotting organic material. Rare wood fragments.
0.80	B					
0.80	ES					
			1.40			Trialpit Complete at 1.400m

Remarks: Trial pit excavated into stockpile, completed at 1.4m.

Stability:

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TrialPit No
Stockpile Pit B
Sheet 1 of 1

Project Name	Project No.	Co-ords: 524328.00 - 319904.00	Date
Lincs Gateway	46934	Level:	12/04/2022
Location: Spalding		Dimensions: m Depth: m 1.80m	Scale 1:25
Client: Alcan Properties Limited			Logged DN

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
						MADE GROUND: Brown very gravelly SAND. Gravel of fine to coarse, angular to rounded limestone, chert and brick.
			0.25			MADE GROUND: Firm brown slightly sandy to sandy slightly gravelly CLAY with low cobble content content. Gravel of fine to coarse, angular to rounded limestone, chert, brick and rare macadam and slag. Cobbles of limestone, concrete and whole bricks. Occasional plastic.
1.50	B					
			1.80			Trialpit Complete at 1.800m

Remarks: Trial pit excavated into stockpile, completed at 1.8m.

Stability:

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Borehole No.
CP01
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524401E - 320189N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.40			TOPSOIL: Brown clayey sandy SILT.
		1.00	D					Soft brown silty CLAY.
		1.20 - 1.65	D					
		1.20	SPT	N=2 (0,0/0,1,0,1)				
		2.10	D		2.10			
		2.20 - 2.65	D					Very soft brownish grey silty CLAY.
		2.20	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,0/0,1,0,1)				
		4.20 - 4.65	D					
		4.20	SPT	N=2 (0,1/0,1,0,1)				
		5.00	D		4.80			Brown clayey silty fine-grained SAND. Saturated.
								Groundwater strike at 5.0 m. Rose to 3.1 m after 20 mins.
		5.60 - 6.05	D					
		5.60	SPT	N=6 (1,1/1,2,1,2)				
		7.10 - 7.45	D					
		7.10	SPT	N=17 (2,3/4,4,4,5)				
		8.65 - 9.10	D					
		8.65	SPT	N=23 (3,4/5,5,6,7)				
		10.20 - 10.65	D					
		10.20	SPT	N=24 (2,4/5,6,5,8)				
		11.00	D		11.00			Brown sandy GRAVEL. Gravel is fine to coarse angular of chert.
		11.70 - 12.15	C					
		11.70	SPT	N=24 (4,5/5,6,5,8)	12.10			Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		12.50	D					
		13.30 - 13.75	D					
		13.30	SPT	N=38 (4,6/8,9,10,11)				
		14.85 - 15.30	D					
		Type		Results				

Remarks
Borehole terminated at 19.8 m due to refusal. Groundwater strike at 5.0 m. Monitoring well installed as detailed above.

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Borehole No.
CP01
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524401E - 320189N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.85	SPT	N=47 (5,6/11,10,11,15)				Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.40 - 16.78	D					
		16.40	SPT	N=50 (7,8/50 for 228mm)				
		17.50	D		17.50			Very stiff greyish brown slightly sandy CLAY.
		18.00 - 18.30	D					
		18.00	SPT	50 (25 for 148mm/50 for 161mm)				
		19.55 - 19.80	D					
		19.55	SPT	50 (25 for 121mm/50 for 127mm)	19.80			End of Borehole at 19.800m
		Type		Results				

Remarks
Borehole terminated at 19.8 m due to refusal. Groundwater strike at 5.0 m. Monitoring well installed as detailed above.

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Borehole No.
CP02
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524527E - 320139N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 23/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D		0.40			TOPSOIL: Brown very silty SAND.
		1.00	D					Very soft brown / greyish brown silty CLAY, with frequent gravel sized pockets of pseudo-fibrous peat.
		1.20 - 1.65	D					
		1.20	SPT	N=2 (0,0/1,0,0,1)				
		2.00	D		2.20			
		2.20 - 2.65	U					Very soft brownish grey silty CLAY, with occasional to frequent gravel-sized pockets of peat and vegetative matter.
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		3.60 - 4.20	B					
		4.20 - 4.65	D					
		4.20	SPT	N=1 (0,0/0,0,0,1)				
		5.00	D					*Slightly sandy and peat less frequent below 5.0 m.*
		5.55 - 6.00	B					
		5.55 - 6.00	U					*U100 attempted - no recovery.*
		6.50	D					
		7.05 - 7.50	D					
		7.05	SPT	N=2 (0,0/0,0,1,1)				
		8.00	D		7.80			Soft greyish brown / brownish grey slightly sandy silty CLAY, with frequent vegetative matter.
		8.55 - 9.00	U					
		9.00 - 9.15	D					*Very stiff black with brown pockets clayey pseudo-fibrous PEAT present from 8.9 to 9.05 m.*
		9.50	D		9.20			Greyish brown clayey (becoming less clayey with depth) very sandy GRAVEL. Gravel is fine to coarse angular of chert and limestone. Wet.
		10.05 - 10.50	B					*Groundwater strike at 9.2 m, rose to 1.9 m after 20 mins.*
		10.05	SPT	N=9 (1,1/2,2,2,3)				
		11.00	D					
		11.55 - 12.00	C		11.80			
		11.55	SPT	N=16 (2,4/4,3,4,5)				Very stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		12.00	D					
		13.05 - 13.50	D					
		13.05	SPT	N=29 (3,4/5,7,8,9)				
		14.50	SPT	N=39 (4,5/7,8,11,13)				
		14.60 - 15.05	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.73 m due to refusal. Groundwater strike at 9.2 m. Monitoring well installed as detailed above.

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Borehole No.
CP02
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524527E - 320139N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 23/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		16.10 - 16.53	D					Very stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.10	SPT	N=50 (5,8/50 for 281mm)				
		17.40	D		17.40			
		17.65 - 18.00	D					Very stiff grey slightly sandy CLAY.
		17.65	SPT	50 (10,13/50 for 202mm)				
		19.45 - 19.73	D		19.73			
		19.45	SPT	50 (25 for 135mm/50 for 155mm)				End of Borehole at 19.730m
			Type	Results				

Remarks
Borehole terminated at 19.73 m due to refusal. Groundwater strike at 9.2 m. Monitoring well installed as detailed above.

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Borehole No.
CP03
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524608E - 320082N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 22/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	D					TOPSOIL: Brown clayey sandy SILT.
		0.50 - 1.20	B		0.50			Soft brown silty CLAY. Slightly wet.
		1.00	D					
		1.20	D					
		1.20	SPT	N=0 (0,0/0,0,0,0)				
					1.70			Very soft grey/dark grey silty CLAY.
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.50	D					
		3.50	SPT	N=1 (0,0/0,1,0,0)				*Frequent vegetative matter encountered below ~3.5 m.*
		4.50	D					
		4.50	SPT	N=1 (0,0/0,0,1,0)				
		5.60	D					
		6.00	D					
		6.00	SPT	N=1 (0,0/1,0,0,0)				
		7.50	D					
		7.50	SPT	N=0 (0,0/0,0,0,0)				
		8.00 - 9.00	B					
		8.50	D					
		9.00	D					
		9.00	SPT	N=14 (0,0/1,3,4,6)	9.30			Brown slightly sandy GRAVEL. Gravel is fine to coarse angular of chert.
		9.30 - 10.00	B					*Groundwater strike at 9.4 m, rose to 3.1 m after 20 mins.*
		10.30	D					
		10.60	C					
		10.60	SPT	N=21 (2,3/3,4,6,8)				
		12.00	SPT	N=20 (3,4/4,5,5,6)	12.10			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		12.50	D					
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=36 (4,6/8,8,9,11)				
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 9.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP03
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524608E - 320082N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 22/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		15.50	SPT	N=31 (3,4/4,8,9,10)				
		16.00 - 17.00	B					
		16.50	D					
		17.00	D					
		17.00	SPT	N=42 (4,5/8,10,10,14)				
					17.80			Very stiff brown occasionally slightly sandy CLAY.
		18.50	D					
		18.50	SPT	50 (25 for 125mm/50 for 120mm)				
		19.00 - 20.00	B					
		19.50	D					
		20.00	D					
		20.00	SPT	50 (11,13/50 for 175mm)	20.37			End of Borehole at 20.370m
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 9.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP04
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524727E - 320023N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 21/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.00			TOPSOIL: Brown silty sandy CLAY.
		0.80	D		0.50			Brown silty fine-grained SAND. *Very little recovery*
		1.20	D					
		1.20	SPT	N=1 (0,1/0,0,1,0)				
					2.00			Very soft brownish grey silty CLAY with frequent gravel-sized pockets of fibrous peat.
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=1 (0,0/0,0,0,1)				
	▽	3.00	D					
		3.50	D					
		3.50	SPT	N=1 (0,0/0,1,0,0)				
		4.50	U					
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					
		6.00	SPT	N=0 (0,0/0,0,0,0)				
		7.40	D					*Thin band of stiff dark brown / black clayey pseudo-fibrous PEAT encountered at 7.5 m.*
		7.50	U					
	▽	8.40 - 9.00	B		8.40			Brown very sandy GRAVEL. Gravel is fine to coarse angular of chert. Slightly wet. *Groundwater strike at 8.4 m, rose to 3.2 m after 20 mins.*
		8.80	D					
		9.00	C					
		9.00	SPT	N=10 (1,2/2,3,2,3)				
		10.90	C					
		10.90	SPT	N=17 (1,2/2,3,6,6)				
					12.00			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		12.50	D					
		12.50	SPT	N=28 (3,3/4,7,8,9)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=22 (11,9/5,4,6,7)				
			Type	Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 8.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP04
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524727E - 320023N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 21/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine angular to subrounded of chalk.
		15.50	SPT	N=29 (3,6/6,6,8,9)				
		16.00 - 16.90	B					
		16.50	D					
		17.00	D		16.90			
		17.00	SPT	50 (12,13/50 for 200mm)				Very stiff brown CLAY.
		17.50 - 18.50	B					
		18.00	D					
		18.50	D					
		18.50	SPT	N=50 (8,9/50 for 245mm)				
		20.00	D					
		20.00	SPT	50 (10,10/50 for 225mm)	20.37			End of Borehole at 20.370m
		Type		Results				

Remarks
Borehole terminated at 20.37 m due to refusal. Groundwater strike at 8.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP05
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319906N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30			TOPSOIL: Brown slightly sandy CLAY.
		0.50 - 1.20	B					Brown silty fine-grained SAND (with occasional clayey bands).
		0.80	D					
		1.20	D					
		1.20 - 2.50	B					
		1.20	SPT	N=2 (0,0/0,1,0,1)				
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.50	D		3.50			Greyish brown / brown silty fine-grained SAND.
		3.50	SPT	N=5 (0,1/1,2,1,1)				
		4.50	D					
		4.50	SPT	N=3 (1,0/1,1,0,1)				
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					*Groundwater strike at 5.8 m, rose to 5.5 m after 20 mins.*
		6.00	SPT	N=2 (0,0/0,0,1,1)	6.10			Very soft brownish grey silty CLAY, with frequent gravel-sized pockets of peat.
		6.50 - 7.50	B					
		7.00	D					
		7.50	D					
		7.50	SPT	N=3 (0,0/1,1,0,1)				
		9.20	D					
		9.20	SPT	N=6 (1,0/1,1,2,2)	9.40			Very soft grey silty CLAY.
		9.40 - 10.80	B					
		10.00	D					
		11.00	D		10.80			Brown very gravelly SAND. Gravel is fine to coarse angular to subrounded of chert. Saturated.
		11.00 - 12.10	B					*Groundwater strike at 10.8 m, rose to 4.9 m after 20 mins.*
		11.00	SPT	N=18 (3,3/4,5,4,5)				
		11.50	D		12.10			Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		12.50	D					
		12.50	SPT	N=21 (3,3/4,5,6,6)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=36 (3,4/7,7,10,12)				
			Type	Results				

Remarks
Borehole terminated at 20.27 m due to refusal. Groundwater strikes at 5.8 m and 10.8 m. Monitoring well installed as above.

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Borehole No.
CP05
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319906N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		15.50	SPT	N=40 (4,7/7,9,10,14)				
		16.50	D					
		17.00	D					
		17.00	SPT	50 (25 for 115mm/50 for 50mm)	17.10			Very stiff greyish brown slightly sandy CLAY.
		17.50 - 18.50	B					
		18.00	D					
		18.50	D					
		18.50	SPT	50 (25 for 115mm/50 for 145mm)				
		20.00	D					
		20.00	SPT	50 (25 for 115mm/50 for 150mm)	20.27			End of Borehole at 20.270m
		Type		Results				

Remarks
Borehole terminated at 20.27 m due to refusal. Groundwater strikes at 5.8 m and 10.8 m. Monitoring well installed as above.

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Borehole No.
CP06
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524677E - 319964N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 14/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.40	B					TOPSOIL: Brown slightly sandy CLAY.
		0.30	D		0.40			
		0.50 - 1.20	B					Soft brown slightly sandy silty CLAY.
		1.00	D					
		1.20	D					
		1.20	SPT	N=0 (0,0/0,0,0,0)				
		1.70 - 2.50	B		1.70			Very soft brownish grey silty CLAY, with frequent dark brown vegetative matter.
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
		3.50	D					
		3.50 - 4.50	B					
		3.50	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.50	D					
		4.50	SPT	N=2 (0,0/0,0,1,1)				
		6.00	D					
		6.00	SPT	N=0 (0,0/0,0,0,0)				
		8.00	D					
		8.00	SPT	N=9 (0,0/0,4,3,2)	8.20			Brown gravelly fine to medium-grained SAND, progressing to sandy GRAVEL. Gravel is fine to coarse angular to subrounded of chert. Occasionally slightly wet.
		8.50 - 9.50	B					*Groundwater strike at 8.5 m, rose to 3.6 m after 20 mins.*
		9.00	D					
		9.50	C					
		9.50	SPT	N=20 (3,4/4,5,5,6)				
		11.00	C					
		11.00	SPT	N=6 (1,2/2,1,2,1)				
		12.00	D					
		12.50	C					
		12.50	SPT	N=16 (1,2/3,3,4,6)				
		13.50	U		13.10			Very stiff brownish grey slightly gravelly CLAY. Gravel is fine angular to rounded of chalk and limestone.
		14.00 - 15.00	B					
		14.50	D					
		15.00	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.79 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP06
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524677E - 319964N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 14/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.00	SPT	N=43 (5,5/6,10,12,15)				Very stiff brownish grey slightly gravelly CLAY. Gravel is fine angular to rounded of chalk and limestone.
		16.50	D					
		16.50	SPT	N=50 (5,8/50 for 275mm)				
		17.50 - 18.00	B		17.50			Very stiff brownish grey slightly sandy CLAY.
		17.80	D					
		18.00	D					
		18.00	SPT	50 (25 for 145mm/50 for 120mm)				
		19.00	D					
		19.50	D					
		19.50	SPT	50 (11,13/50 for 140mm)	19.79			End of Borehole at 19.790m
			Type	Results				

Remarks
Borehole terminated at 19.79 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP07
Sheet 1 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524470E - 320013N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D		0.30			TOPSOIL: Brown very clayey SAND.
								Brown silty fine to medium-grained SAND.
		1.00	D					
		1.20 - 1.65	D		1.20			
		1.20 - 1.80	B					Very soft brown slightly gravelly silty CLAY. Gravel is fine to coarse angular of chert.
		1.20	SPT	N=2 (0,1/0,1,0,1)				
		2.00	D					
		2.20 - 2.65	D		2.30			
		2.20 - 2.80	B					Very soft brownish grey / brown silty CLAY with frequent gravel-sized pockets of black fibrous peat and vegetative fragments. Slightly wet.
		2.20	SPT	N=0 (0,0/0,0,0,0)				
		3.00	D					
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.20 - 4.65	D					
		4.20	SPT	N=2 (0,0/0,1,0,1)				
		4.50 - 5.00	B					
		5.20	D		5.20			
		5.55 - 6.00	D					Brownish grey very silty fine-grained SAND.
		5.55	SPT	N=1 (0,0/0,0,0,1)	5.70			
								Very soft brownish grey / brown silty CLAY with frequent gravel-sized pockets of black fibrous peat and vegetative fragments.
		6.50	D					
		7.15 - 7.60	D					
		7.15	SPT	N=2 (0,1/0,1,0,1)				
		7.50 - 7.80	B					*Thin peat band from 7.5 to 7.7 m.*
		8.50	D		8.50			
		8.70 - 9.15	C					Brown sandy fine to coarse GRAVEL. Gravel is fine to coarse angular to subrounded of chert.
		8.70	SPT	N=9 (1,1/2,2,2,3)				*Groundwater strike at 8.5 m, rose to 5.3 m after 20 mins.*
		9.50	D					
		10.25 - 10.70	B					
		10.25	SPT	N=12 (1,2/3,3,3,3)				
		11.00	D					
		11.80 - 12.25	D		11.90			
		11.80	SPT	N=29 (4,5/5,7,8,9)				Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		12.00 - 12.50	B					
		13.30 - 13.75	D					
		13.30	SPT	N=32 (3,5/5,9,9,9)				
		14.00	D					
		14.85 - 15.30	D					
		Type		Results				

Remarks
Borehole terminated at 20.0 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as above.

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Borehole No.
CP07
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524470E - 320013N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 19/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.85	SPT	N=47 (6,8/9,10,13,15)				Very stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to rounded of chalk.
		16.35 - 16.62	D		16.50			
		16.35	SPT	50 (8,12/50 for 165mm)				Very stiff greyish brown slightly sandy CLAY.
		18.05 - 18.31	D					
		18.05	SPT	50 (25 for 134mm/50 for 131mm)				
		19.75 - 19.92	D					
		19.75	SPT	50 (25 for 80mm/50 for 90mm)	20.00			End of Borehole at 20.000m
			Type	Results				

Remarks
Borehole terminated at 20.0 m due to refusal. Groundwater strike at 8.5 m. Monitoring well installed as above.

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Borehole No.
CP08
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524353E - 320076N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 24/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.80	B					MADE GROUND: Brown very gravelly SAND. Gravel of fine to coarse, angular of brick, concrete, limestone, and chert.
					0.80			
		1.00	D					Soft brown silty CLAY.
		1.20 - 1.65	U					
		1.65 - 1.80	D					
		2.20 - 2.65	D					
		2.20	SPT	N=1 (0,0/0,0,0,1)	2.50			
		3.00	D					Very soft brownish grey silty CLAY, with occasional vegetative fragments.
		3.20 - 3.65	D					
		3.20	SPT	N=1 (0,0/0,0,0,1)				
		4.00	D					
		4.20 - 4.65	U					*Frequent gravel-sized pockets of dark brown amorphous peat below 4.0 m.*
		4.65 - 4.80	D					
		4.80 - 5.40	B					
		5.40	D		5.40			
		5.55 - 6.00	D					Brown silty fine to medium-grained SAND.
		5.55	SPT	N=12 (1,2/2,3,3,4)				*Groundwater strike at 5.4 m, rose to 4.3 m after 20 mins.*
		6.00 - 6.50	B					
		7.05 - 7.50	D					
		7.05	SPT	N=16 (2,3/4,4,4,4)				
		8.65 - 9.10	D					
		8.65	SPT	N=19 (1,4/3,5,5,6)				
		10.20 - 10.65	D					
		10.20	SPT	N=20 (2,3/5,5,4,6)				
		11.70	D		11.70			
		11.75 - 12.20	C					Brown gravelly fine to coarse-grained SAND. Gravel is fine to coarse angular of chert.
		11.75	SPT	N=18 (3,4/4,4,5,5)				
		13.00	D		13.00			
		13.20 - 13.65	D					Stiff greyish brown gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		13.20	SPT	N=30 (4,5/6,8,8,8)				
		14.70 - 15.15	D					
		Type		Results				

Remarks
Boreholes terminated at 19.66 m due to refusal. Groundwater strike at 5.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP08
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524353E - 320076N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 24/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.70	SPT	N=32 (5,5/6,8,8,10)				Stiff greyish brown gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk.
		16.15 - 16.58	D					
		16.15	SPT	N=50 (6,7/50 for 277mm)				
		17.20	D		17.10			Very stiff brownish grey slightly sandy CLAY.
		17.80 - 18.10	D					
		17.80	SPT	50 (25 for 140mm/50 for 154mm)				
		19.40 - 19.66	D		19.66			End of Borehole at 19.660m
		19.40	SPT	50 (23 for 118mm/50 for 143mm)				
			Type	Results				

Remarks
Boreholes terminated at 19.66 m due to refusal. Groundwater strike at 5.4 m. Monitoring well installed as detailed above.

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Borehole No.
CP09
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524338E - 319949N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 04/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.30	B					MADE GROUND: Brown sandy gravelly CLAY. Gravel of fine to coarse, angular brick, chert and concrete.
		0.30	D		0.30			
		0.30 - 0.60	B					Grey and brown silty very clayey fine to medium-grained SAND.
		0.60	D		0.60			Firm brown sandy CLAY, locally very clayey fine-grained SAND.
		0.60 - 1.00	B					
		1.20 - 1.65	D					
		1.20 - 1.70	B					
		1.20	SPT	N=3 (1,1/0,1,1,1)	1.70			Very soft brownish grey silty CLAY.
		2.00	D					
		2.00 - 2.40	B					
		2.20 - 2.65	D		2.40			Very soft brownish grey / brown silty CLAY with occasional shells / shell fragments, and frequent gravel-sized pockets of black fibrous peat and vegetative matter.
		2.20	SPT	N=2 (0,0/0,1,0,1)				
		3.00	D					
		3.20 - 3.65	B					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,1/0,1,0,1)				
		4.00	D					
		4.25 - 4.70	D					
		4.25	SPT	N=4 (0,1/1,1,1,1)				
		4.30 - 5.00	B					
		5.30	D		5.30			Brownish grey silty fine-grained SAND.
		5.85 - 6.20	D					
		5.85	SPT	N=13 (0,2/2,3,4,4)	6.00			Greyish brown silty fine-grained SAND.
		6.00 - 6.50	B					*Groundwater strike at 6.0 m, rose to 4.6 m after 20 mins.*
		7.00	D					
		7.40 - 7.85	D					
		7.40	SPT	N=19 (2,4/5,5,4,5)				
		8.50	D					
		9.00 - 9.45	D					
		9.00	SPT	N=25 (3,6/6,7,6,6)				*Blowing sands below 9.0 m.*
		10.00	D					
		10.55 - 11.00	D					
		10.55	SPT	N=19 (2,4/3,4,6,6)				
		11.50	D					
		12.05 - 12.50	D					
		12.05	SPT	N=17 (2,2/4,4,4,5)	12.40			Brown sandy GRAVEL. Gravel is fine to coarse angular to subrounded of chert. Slightly wet.
		12.50 - 13.00	B					
		13.20	D					
		13.55 - 14.00	B		13.40			Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		13.55 - 14.00	D					*Unable to seal out water below 13.5 m. Slow boring (chop and shell) from 14 to 15 m.*
		13.55	SPT	N=37 (4,4/7,9,10,11)				
		14.50	D					
		Type		Results				

Remarks

Borehole terminated at 15.5 m due to blowing sands and water ingress. Groundwater strike at 6 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP09
Sheet 2 of 2

Project Name: Lincs Gateway	Project No.: 46934	Co-ords: 524338E - 319949N	Hole Type: CP
Location: Spalding		Level:	Scale: 1:75
Client: Alcan Properties Limited		Dates: 04/04/2022	Logged By: DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.05 - 15.50	D					Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		15.05	SPT	N=41 (7,6/9,9,11,12)	15.50			End of Borehole at 15.500m
			Type	Results				

16 17 18 19 20 21 22 23 24 25 26 27 28 29

Remarks

Borehole terminated at 15.5 m due to blowing sands and water ingress. Groundwater strike at 6 m. Monitoring well installed as detailed above.

Eastwood
CONSULTING ENGINEERS

Borehole No.
CP10
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524412E - 319882N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 08/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.20	D					TOPSOIL: Brown very clayey SAND.
		0.30 - 0.80	B		0.30			Very soft brownish grey / brown silty CLAY, with frequent gravel-sized pockets of vegetative fragments.
		1.20 - 1.65	D					
		1.20 - 1.70	B					
		1.20	SPT	N=2 (0,1/0,1,0,1)				
		2.00	D					
		2.20 - 2.65	U					
		2.65 - 2.80	D					
		3.20 - 3.65	D					
		3.20	SPT	N=2 (0,0/0,1,0,1)				
								Frequent gravel-sized pockets of fibrous peat encountered below 3.7 m.
		4.00	D					
		4.20 - 4.65	U					
	▽	4.65 - 4.80	D					
		5.50	D					
		5.80 - 6.25	D					
		5.80 - 6.30	B		6.00			
		5.80	SPT	N=1 (0,0/0,0,0,1)				Very soft brownish grey / brown silty CLAY.
		7.00	D					
		7.35 - 7.80	D					
		7.35	SPT	N=5 (1,1/1,1,1,2)				
		7.70 - 8.20	B		7.70			Brown fibrous PEAT.
					7.90			Very soft brownish grey / brown silty CLAY.
		8.50	D					
		8.85 - 9.30	U					
		9.50	D					
		9.80	D					
	▽	10.00	D		10.00			
		10.30 - 10.75	C					Brown slightly sandy GRAVEL. Gravel is fine to coarse angular to rounded of chert. Wet.
		10.30 - 10.80	B					*Groundwater strike at 10 m, rose to 4.5 m after 20 mins.*
		10.30	SPT	N=13 (2,2/3,3,3,4)				
		11.50	D		11.50			
		11.85 - 12.30	D					Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk, chert and occasional shell fragments.
		11.85	SPT	N=27 (3,6/7,6,7,7)				
		12.50 - 13.00	B					
		13.35 - 13.80	U					
		13.80 - 13.95	D					
		14.90 - 15.35	D					
		Depth (m)	Type	Results				

Remarks
Borehole terminated at 19.91 m due to refusal. Groundwater strike at 10 m. Monitoring well installed as detailed above.

Eastwood
CONSULTING ENGINEERS

Borehole No.
CP10
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524412E - 319882N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 08/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		14.90	SPT	N=37 (5,6/7,9,9,12)				Stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of chalk, chert and occasional shell fragments.
		16.20	D		16.20			Very stiff greyish brown slightly sandy CLAY.
		16.45 - 16.90	U					
		16.95 - 17.10	D					
		17.50 - 18.00	B					
		18.05 - 18.39	D					
		18.05	SPT	50 (5,12/50 for 190mm)				
		19.60 - 19.91	D		19.91			
		19.60	SPT	50 (6,14/50 for 162mm)				End of Borehole at 19.910m
			Type	Results				

Remarks
Borehole terminated at 19.91 m due to refusal. Groundwater strike at 10 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP11
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524509E - 319838N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 13/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.00 - 0.40	B					TOPSOIL: Brown very clayey SAND.
		0.30	D		0.40			
		0.50 - 1.00	B					Brown / light brown silty fine-grained SAND.
		0.80	D					
		1.20	D					
		1.20	SPT	N=7 (1,2/1,2,2,2)				
		2.50	D					
		2.50 - 3.50	B					
		2.50	SPT	N=2 (1,0/1,0,1,0)				
		3.00	D					
		3.50	D		3.60			
		3.50	SPT	N=3 (1,0/1,1,0,1)				Brown silty fine-grained SAND.
		3.60 - 4.50	B					
		4.00	D					
		4.50	D					
		4.50	SPT	N=3 (0,0/0,1,1,1)				*More grey below 4.5 m.*
		5.00 - 6.00	B					
		5.50	D					
		6.00	D					
		6.00	SPT	N=3 (0,0/1,0,1,1)				
		6.80 - 7.50	B		6.80			Stiff brownish grey CLAY, with frequent gravel-sized inclusions of dark brown clay, fibrous peat and vegetative fragments, and occasional partings / pockets of fine-grained sand.
		7.00	D					
		7.50	D					
		7.50	SPT	N=8 (2,2/2,2,2,2)				
		8.60	D					
		9.40	D					
		9.40	SPT	N=17 (1,3/4,4,5,4)	9.50			Brown fine to medium-grained SAND. *Groundwater strike at 9.5 m. No rise in water level after 20 mins.*
		10.60	D		10.60			Very stiff grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		10.60	SPT	N=29 (4,5/6,6,8,9)				
		10.80	D					
		12.20	D					
		12.20	SPT	N=27 (4,4/5,6,8,8)				
		12.50	B					
		13.00	D					
		13.50	D					
		13.50	SPT	N=33 (2,4/5,8,10,10)				
		15.00	D					
		Type		Results				

Remarks
Borehole terminated at 20.22 m due to refusal. Groundwater strike at 9.5 m. Monitoring well installed as detailed above.

Eastwood
CONSULTING ENGINEERS

Borehole No.
CP11
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524509E - 319838N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 13/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		15.00	SPT	N=28 (3,4/4,6,8,10)				Very stiff grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		16.50	D					
		16.50	SPT	N=50 (5,8/50 for 250mm)				
		17.10 - 18.00	B		17.10			Very stiff greyish brown CLAY.
		18.20	D					
		18.50	D					
		18.50	SPT	50 (25 for 140mm/50 for 105mm)				
		20.00	D					
		20.00	SPT	50 (25 for 105mm/50 for 120mm)	20.22			End of Borehole at 20.220m
			Type	Results				

Remarks
Borehole terminated at 20.22 m due to refusal. Groundwater strike at 9.5 m. Monitoring well installed as detailed above.

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Borehole No.
CP12
Sheet 1 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524626E - 319785N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								TOPSOIL: Brown slightly sandy CLAY.
		0.50 - 1.10	B		0.40			Stiff brown slightly sandy CLAY.
		0.80	D					
		1.20	D		1.10			Brown clayey silty fine to medium-grained SAND.
		1.20 - 2.50	B					
		1.20	SPT	N=2 (0,0/0,0,1,1)				
		2.00	D					
		2.50	D					
		2.50	SPT	N=0 (0,0/0,0,0,0)				
	▽	3.50	D					
	▽	3.50	SPT	N=5 (0,0/1,2,1,1)	3.60			Brown silty fine to medium-grained SAND.
	▽	3.60 - 4.50	B					
	▽	4.00	D					*Groundwater strike at 4.0 m, rose to 3.2 m after 20 mins.*
		4.50	D					
		4.50	SPT	N=2 (1,0/1,0,1,0)				
		6.00	D					
		6.00	SPT	N=4 (1,2/1,1,1,1)				
		7.50	D					
		7.50	SPT	N=3 (1,0/1,1,0,1)				
		9.00	D					
		9.00	SPT	N=13 (1,2/2,3,3,5)				
		9.50	D					
		9.50 - 10.50	D					
		10.80	D					
		10.80	SPT	N=16 (3,3/4,3,4,5)				
					11.80			Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		12.50	D					
		12.50	SPT	N=21 (3,4/5,5,5,6)				
		13.00 - 14.00	B					
		13.50	D					
		14.00	D					
		14.00	SPT	N=24 (4,4/5,6,8)				
		Type		Results				

Remarks
Borehole terminated at 20.26 m due to refusal. Groundwater strike at 4.0 m. Monitoring well installed as detailed above.

Eastwood
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Borehole No.
CP12
Sheet 2 of 2

Project Name	Project No.	Co-ords:	Hole Type
Lincs Gateway	46934	524626E - 319785N	CP
Location: Spalding		Level:	Scale 1:75
Client: Alcan Properties Limited		Dates: 20/04/2022	Logged By DN

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		15.50	D					Stiff greyish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of chalk.
		15.50	SPT	N=36 (5,8/8,9,9,10)				
		16.00 - 17.00	B					
		16.50	D					
		17.00	D					
		17.00	SPT	N=44 (6,8/9,11,11,13)				
					18.30			
		18.50	D					Very stiff greyish brown slightly sandy CLAY.
		18.50	SPT	50 (8,11/50 for 210mm)				
		19.00 - 20.00	B					
		19.50	D					
		20.00	D					
		20.00	SPT	N=50 (25 for 140mm/50 for 125mm)				
					20.26			End of Borehole at 20.260m
		Type		Results				

Remarks
Borehole terminated at 20.26 m due to refusal. Groundwater strike at 4.0 m. Monitoring well installed as detailed above.



Site entrance in south west from B1173



View north across 'Brownfield' area from site entrance, with stockpile in left of photo

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	1/2

Eastwood&Partners
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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

SITE PHOTOGRAPHS



View south across ‘Brownfield’ area



View towards stockpile along northern edge of ‘Brownfield’ area

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	3/4

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LINCS GATEWAY, SPALDING

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SITE PHOTOGRAPHS



Cropped fields located adjacent to ‘Brownfield’ area



Drainage ditch located along southern boundary

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	5/6

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View north east along south east boundary



View west across site from alternative eastern entrance off A16

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	7/8

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Drainage ditch crossing the site



Drainage ditch crossing the site

Prepared	DN	Checked	AJK	Date	04/04/2022	Photograph No	9/10

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View towards north west corner of agricultural fields



Public footpath along former Fen End Lane in west of site, and adjacent horse paddock

Prepared	DN	**Checked**	AJK	**Date**	04/04/2022	**Photograph No**	11/12

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SITE PHOTOGRAPHS

Appendix 4

PSL22/2989 & PSL22/3231

Calculation of Infiltration Rates

LABORATORY REPORT

4043

Contract Number: PSL22/2989

Report Date: 18 May 2022

Client's Reference: 46934

Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Daniel Nowell

Contract Title: Lincs Gateway, Spalding

Date Received: 26/4/2022
Date Commenced: 26/4/2022
Date Completed: 18/05/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins (Director)
R Berriman (Quality Manager)
S Royle (Laboratory Manager)

L Knight (Assistant Laboratory Manager)
S Eyre (Senior Technician)
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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP1			1.30		Brown sandy very silty CLAY.
TP12			1.50		Brown CLAY with some organic material.
TP15			1.30		Brown slightly sandy CLAY with some organic material.
TP19			1.40		Brown slightly sandy CLAY with some organic material.
TP21			1.70		Brown mottled grey organic CLAY.
TP26			1.50		Brown sandy very silty CLAY.
TP29			1.50		Brown sandy very silty CLAY.
TP31			1.00		Brown CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
TP1			1.30		32			40	25	15	100	Intermediate Plasticity CI
TP12			1.50		69			81	34	47	100	Very High Plasticity CV
TP15			1.30		41			66	29	37	100	High Plasticity CH
TP19			1.40		38			51	28	23	100	High Plasticity CH
TP21			1.70		102			121	44	77	100	Extremely High Plasticity CE
TP26			1.50		31			37	21	16	100	Intermediate Plasticity CI
TP29			1.50		34			40	23	17	100	Intermediate Plasticity CI
TP31			1.00		33			76	31	45	100	Very High Plasticity CV

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

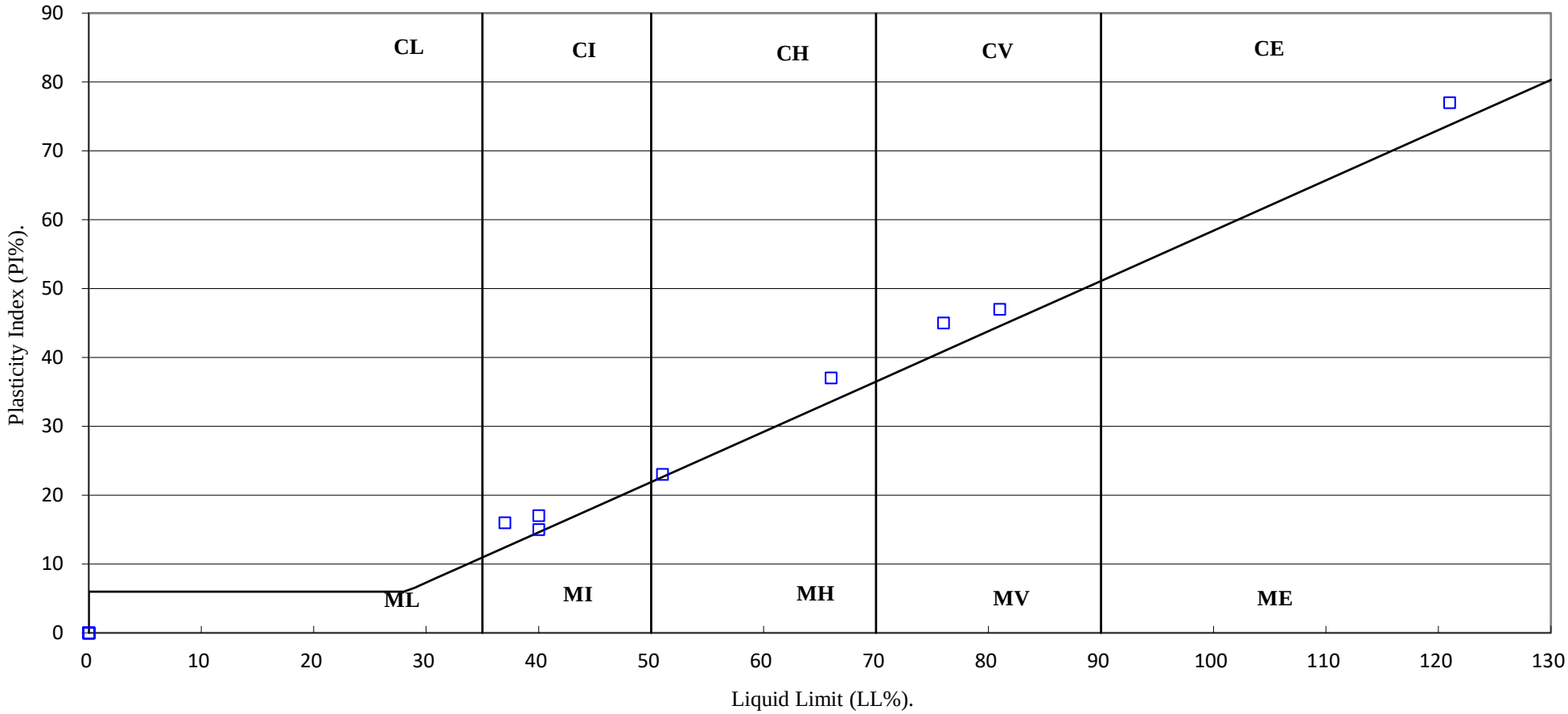
Contract No:

PSL22/2989

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	Lincs Gateway, Spalding	**Contract No:** PSL22/2989 **Client Ref:** 46934

LABORATORY REPORT

4043

Contract Number: PSL22/3231

Report Date: 30 May 2022

Client's Reference: 46934

Client Name: Eastwood & Partners
St Andrews House
23 Kingfield Road
Sheffield
S11 9AS

For the attention of: Daniel Nowell

Contract Title: Lincs Gateway, Spalding

Date Received: 5/5/2022
Date Commenced: 5/5/2022
Date Completed: 30/5/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

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SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
TP3		B	1.30		Brown very sandy clayey SILT
CP3		B	0.50	1.20	Brown sandy very silty CLAY
CP5		B	0.50	1.20	Brown very sandy slightly clayey SILT
CP7		B	1.20	1.80	Brown slightly sandy CLAY
CP9		B	0.00	0.30	Brown gravelly sandy CLAY
CP11		B	0.50	1.00	Brown clayey very sandy SILT
CP4		B	8.40	9.00	Brown very sandy slightly clayey GRAVEL.
CP5		B	1.20	2.50	Brown very sandy clayey SILT.
CP9		B	0.60	1.00	Brown slightly gravelly sandy CLAY.
CP10		B	10.30	10.80	Brown very sandy silty GRAVEL.
CP11		B	5.00	6.00	Brown mottled grey sandy CLAY.
CP12		B	3.60	4.50	Brown very silty SAND.
CP2		U	8.55	9.00	Very soft brown slightly sandy organic CLAY.
CP4		U	4.50		Soft dark grey peaty CLAY.
CP6		U	13.50	13.95	Very stiff brown slightly gravelly sandy CLAY.
CP8		U	1.20	1.65	Soft brown slightly sandy CLAY.
CP8		U	4.20	4.65	Soft brown slightly sandy organic CLAY.
CP10		U	2.20	2.65	Soft dark brown slightly sandy organic CLAY.
CP10		U	8.85	9.30	Soft brown slightly sandy CLAY with some organic material.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
CP10		U	13.35	13.80	Very stiff brown slightly gravelly sandy CLAY.
CP10		U	16.45	16.90	Very stiff brown slightly gravelly sandy CLAY.
CP1		D	2.10		Brown sandy CLAY.
CP1		D	12.50		Grey slightly gravelly sandy CLAY.
CP2		D	1.00		Brown slightly gravelly organic CLAY.
CP2		D	3.00		Brown slightly sandy organic CLAY.
CP2		D	17.40		Grey sandy CLAY.
CP3		D	5.60		Dark brown peaty CLAY.
CP4		D	3.00		Brown mottled grey slightly sandy CLAY with some organic material.
CP5		D	7.00		Brown slightly sandy CLAY with some organic material.
CP5		D	16.50		Grey slightly gravelly sandy CLAY.
CP6		D	1.00		Brown sandy CLAY.
CP6		D	2.00		Brownish grey slightly sandy CLAY.
CP6		D	17.80		Grey sandy CLAY.
CP7		D	4.20		Grey organic CLAY.
CP8		D	3.00		Brown mottled grey slightly sandy CLAY.
CP8		D	17.20		Grey sandy CLAY.
CP9		D	2.00		Brown mottled dark grey CLAY with some organic material.
CP9		D	4.25	4.70	Brown mottled grey organic CLAY.

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Description of Sample
CP10		D	7.00		Grey organic CLAY.
CP10		D	7.70	8.20	Dark brown organic CLAY.
CP11		D	0.80		Brown sandy CLAY.
CP11		D	10.80		Brown slightly gravelly sandy CLAY.
CP12		D	19.50		Grey sandy CLAY.

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
CP2		U	8.55	9.00	60			109	41	68	100	Extremely High Plasticity CE
CP4		U	4.50	4.95	115			247	80	167	100	Extremely High Plasticity CE
CP6		U	13.50	13.95	15			51	24	27	95	High Plasticity CH
CP8		U	1.20	1.65	32			58	26	32	100	High Plasticity CH
CP8		U	4.20	4.65	93			127	45	82	100	Extremely High Plasticity CE
CP10		U	2.20	2.65	62			79	33	46	100	Very High Plasticity CV
CP10		U	8.85	9.30	52			61	27	34	100	High Plasticity CH
CP10		U	13.35	13.80	16			41	21	20	93	Intermediate Plasticity CI
CP10		U	16.45	16.90	16			43	22	21	97	Intermediate Plasticity CI
CP1		D	2.10		47			53	24	29	100	High Plasticity CH
CP1		D	12.50		19			37	18	19	96	Intermediate Plasticity CI
CP2		D	1.00		56			94	35	59	98	Extremely High Plasticity CE
CP2		D	3.00		74			99	36	63	100	Extremely High Plasticity CE
CP2		D	17.40		19			47	22	25	100	Intermediate Plasticity CI
CP3		D	5.60		120			189	65	124	100	Extremely High Plasticity CE
CP4		D	3.00		59			68	29	39	100	High Plasticity CH
CP5		D	7.00		61			82	33	49	100	Very High Plasticity CV
CP5		D	16.50		15			38	18	20	92	Intermediate Plasticity CI
CP6		D	1.00		9.7			53	23	30	100	High Plasticity CH

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

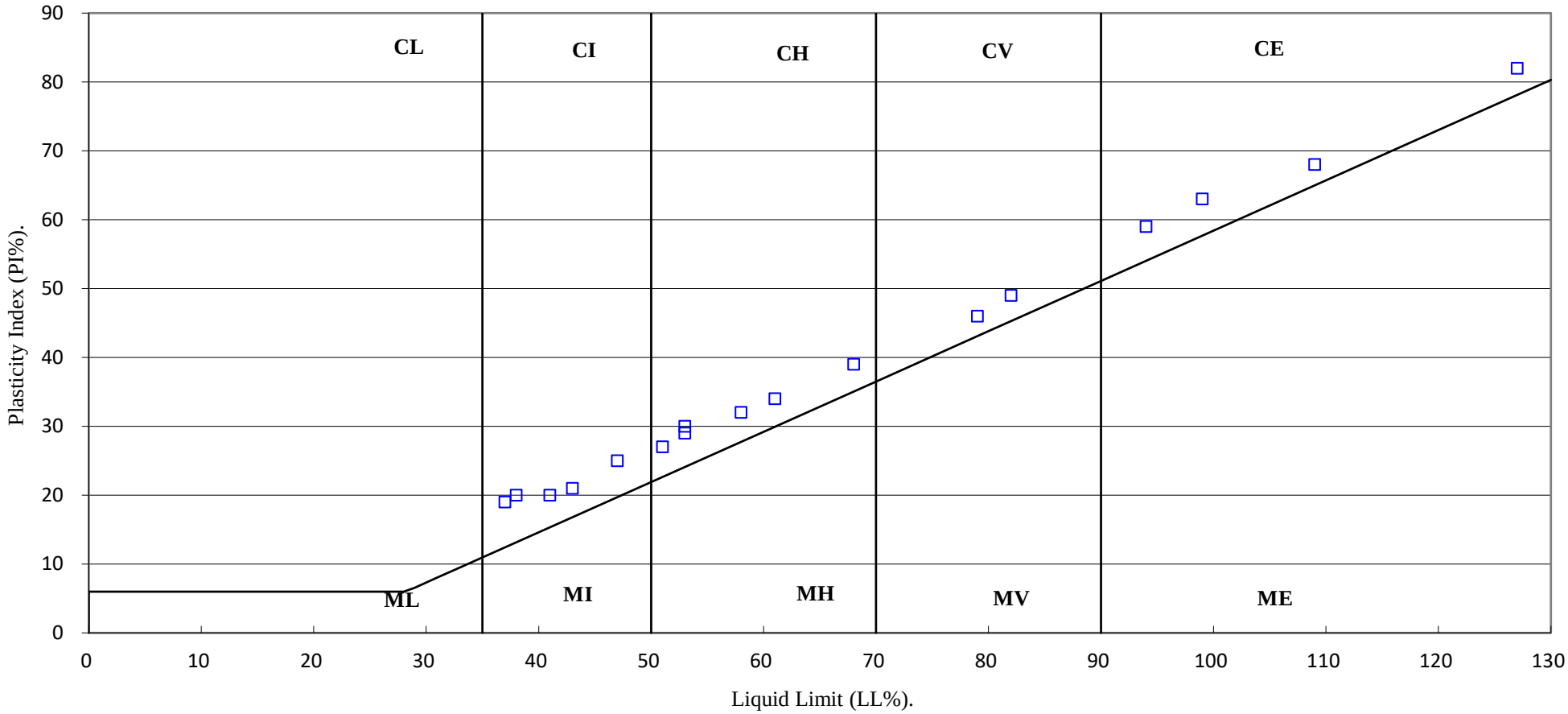
Contract No:

PSL22/3231

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % Clause 3.2	Linear Shrinkage % Clause 6.5	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	Passing .425mm %	Remarks
CP6		D	2.00		16			65	27	38	100	High Plasticity CH
CP6		D	17.80		15			45	21	24	100	Intermediate Plasticity CI
CP7		D	4.20		84			152	54	98	100	Extremely High Plasticity CE
CP8		D	3.00		49			67	28	39	100	High Plasticity CH
CP8		D	17.20		20			49	23	26	100	Intermediate Plasticity CI
CP9		D	2.00		53			82	35	47	100	Very High Plasticity CV
CP9		D	4.25	4.70	80			154	56	98	100	Extremely High Plasticity CE
CP10		D	7.00		58			91	35	56	100	Extremely High Plasticity CE
CP10		D	7.70	8.20	94			189	65	124	100	Extremely High Plasticity CE
CP11		D	0.80		9.5			48	23	25	100	Intermediate Plasticity CI
CP11		D	10.80		8.3			45	22	23	98	Intermediate Plasticity CI
CP12		D	19.50		18			46	22	24	100	Intermediate Plasticity CI

SYMBOLS : **NP : Non Plastic** *** : Liquid Limit and Plastic Limit Wet Sieved.**

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

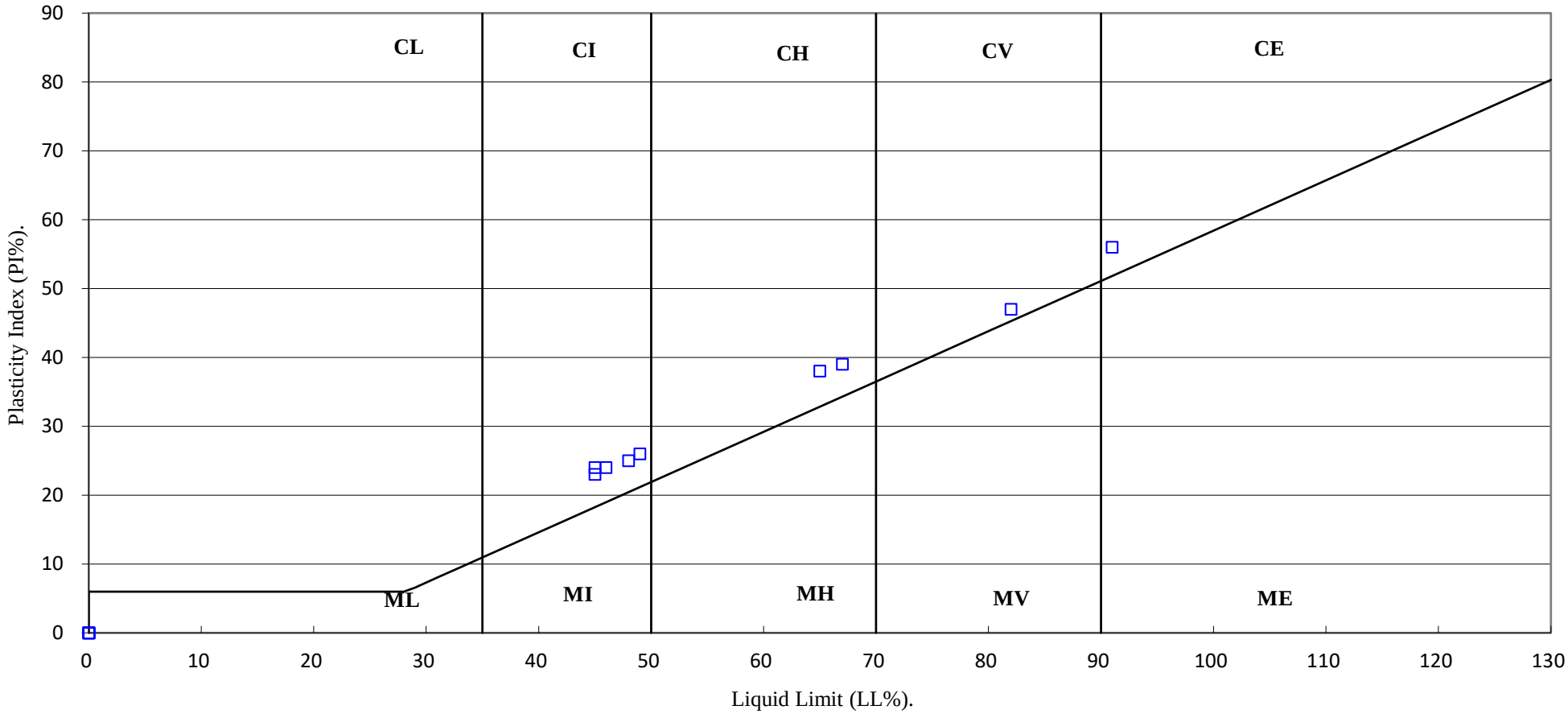
Contract No:

PSL22/3231

Client Ref:

46934

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.



UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:**
			PSL22/3231
			Client Ref:
			46934

PARTICLE SIZE DISTRIBUTION TEST

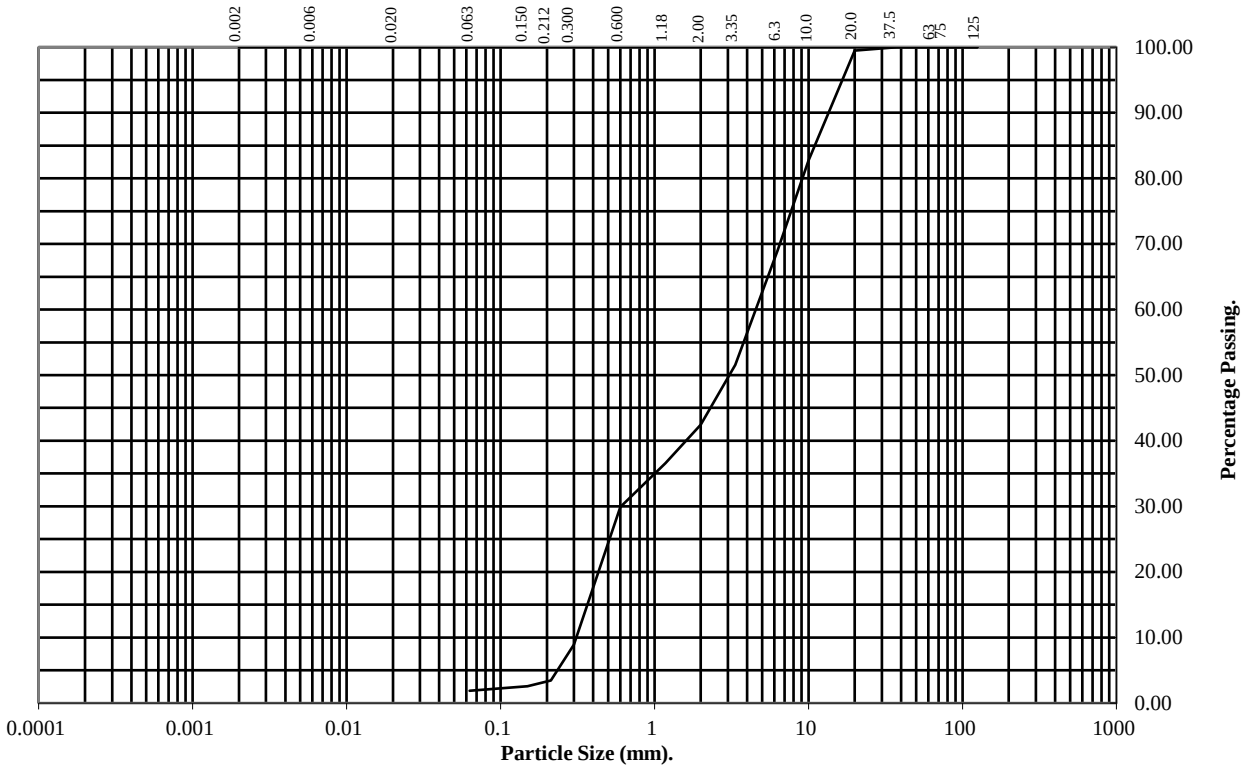
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP4** **Top Depth (m):** **8.40**

Sample Number: **Base Depth(m):** **9.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	83
6.3	69
3.35	52
2	42
1.18	37
0.6	30
0.3	9
0.212	3
0.15	3
0.063	2

Soil Fraction	Total Percentage
Cobbles	0
Gravel	58
Sand	40
Silt/Clay	2

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

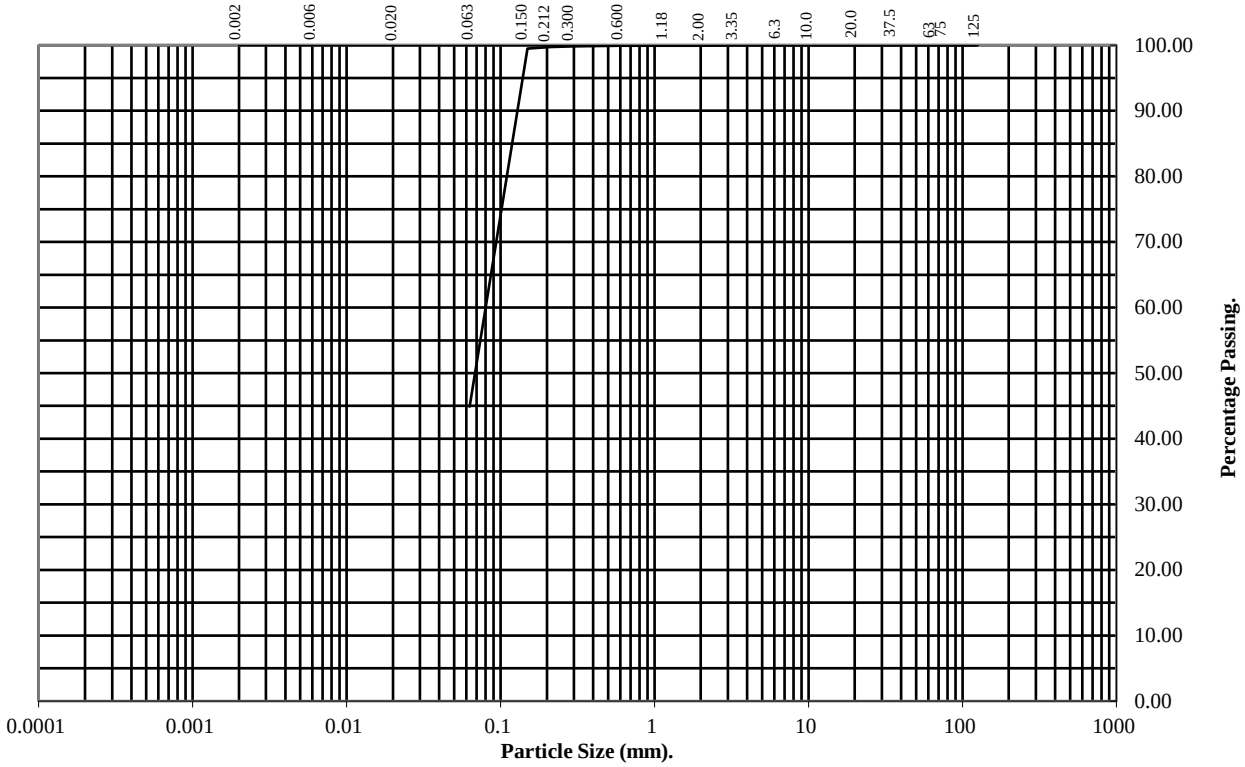
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP5** **Top Depth (m):** **1.20**

Sample Number: **Base Depth(m):** **2.50**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	99
0.063	45

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	55
Silt/Clay	45

Remarks:

See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

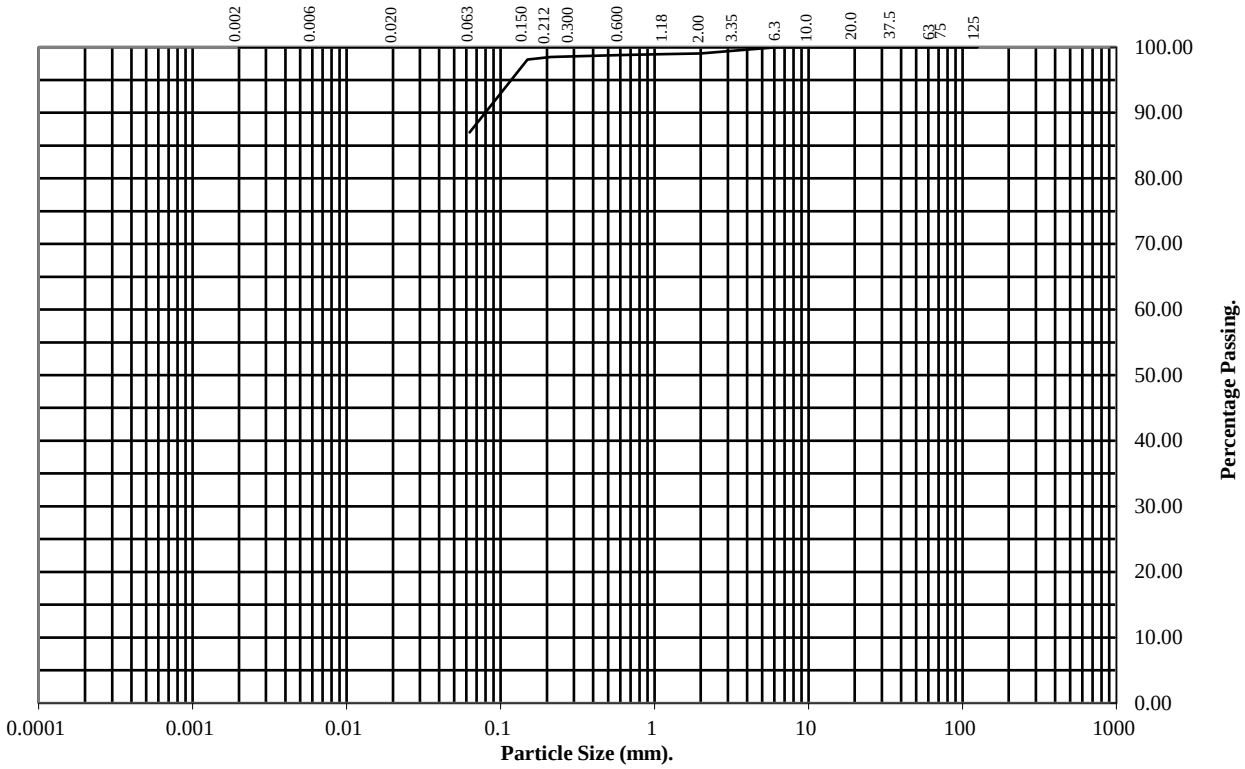
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **CP9** **Top Depth (m):** **0.60**

Sample Number: **Base Depth(m):** **1.00**

Sample Type: **B**



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	99
2	99
1.18	99
0.6	99
0.3	99
0.212	99
0.15	98
0.063	87

Soil Fraction	Total Percentage
Cobbles	0
Gravel	1
Sand	12
Silt/Clay	87

Remarks:

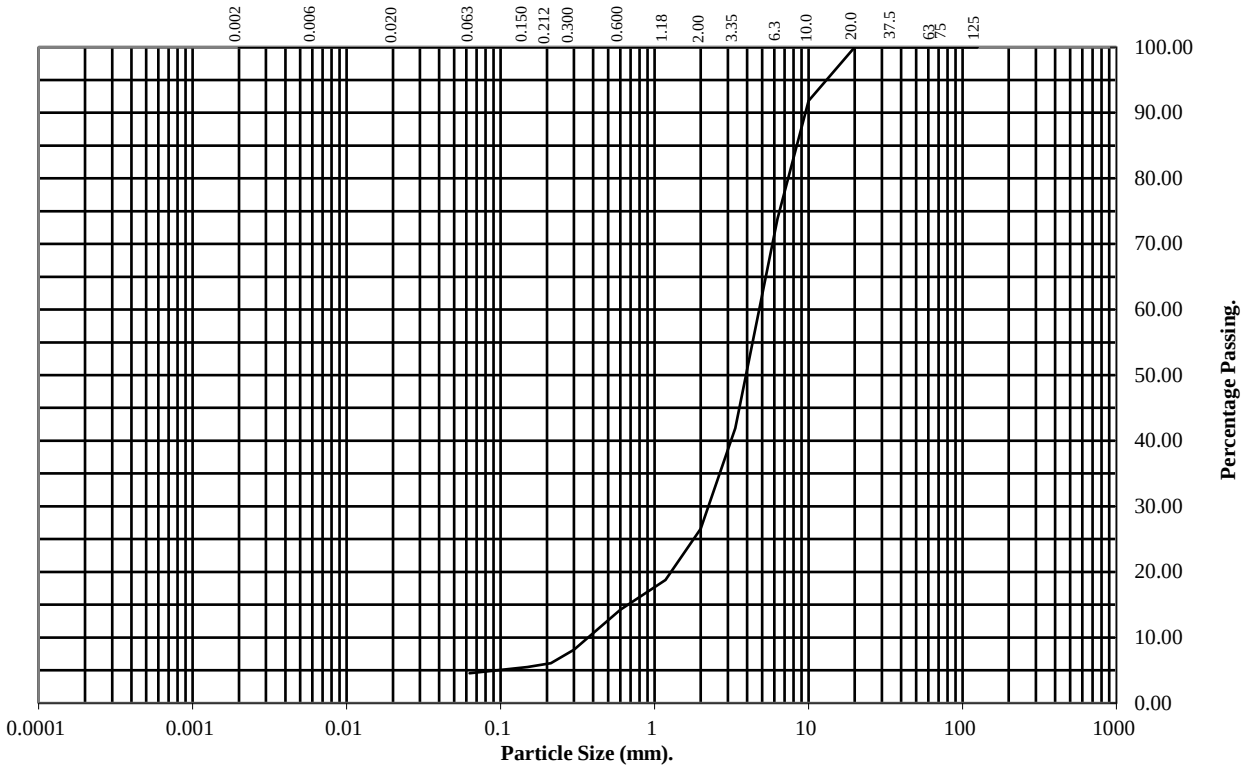
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP10**	**Top Depth (m):**	**10.30**
Sample Number:		**Base Depth(m):**	**10.80**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	92
6.3	74
3.35	42
2	27
1.18	19
0.6	14
0.3	8
0.212	6
0.15	5
0.063	5

Soil Fraction	Total Percentage
Cobbles	0
Gravel	73
Sand	22
Silt/Clay	5

Remarks:

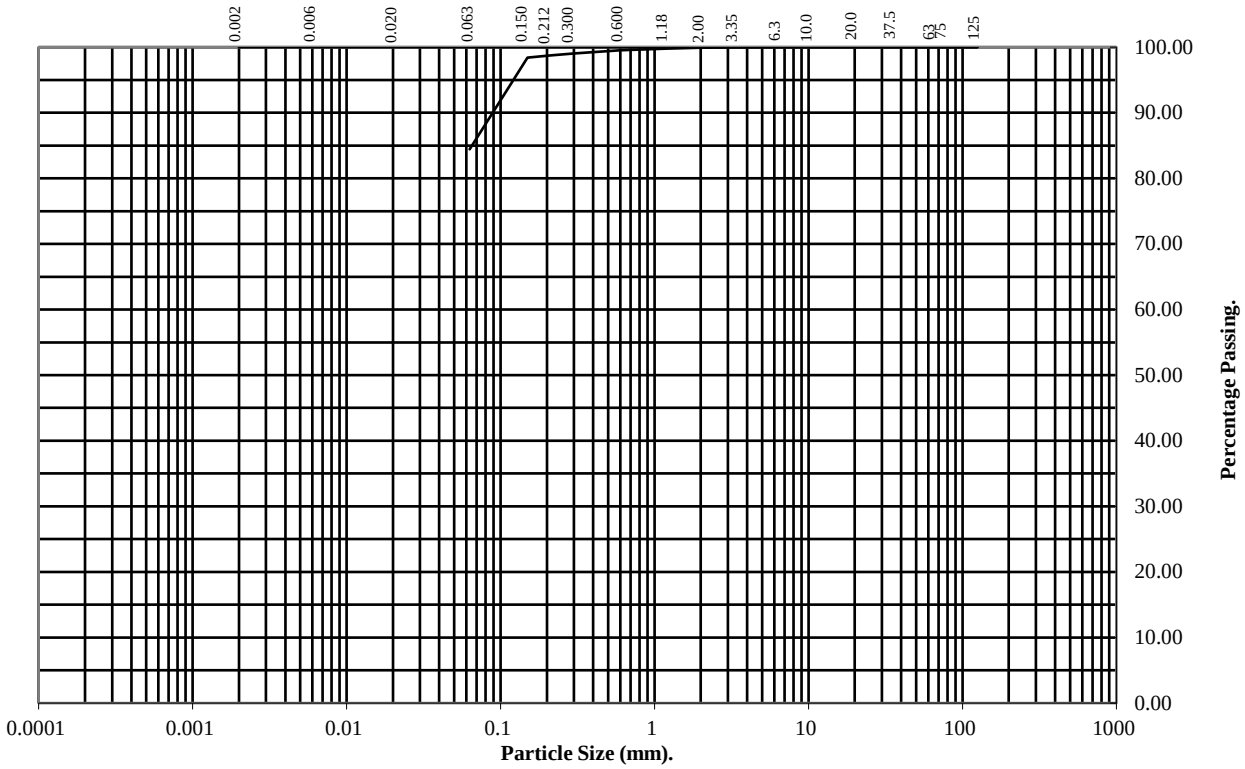
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP11**	**Top Depth (m):**	**5.00**
Sample Number:		**Base Depth(m):**	**6.00**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	99
0.212	99
0.15	98
0.063	84

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	16
Silt/Clay	84

Remarks:

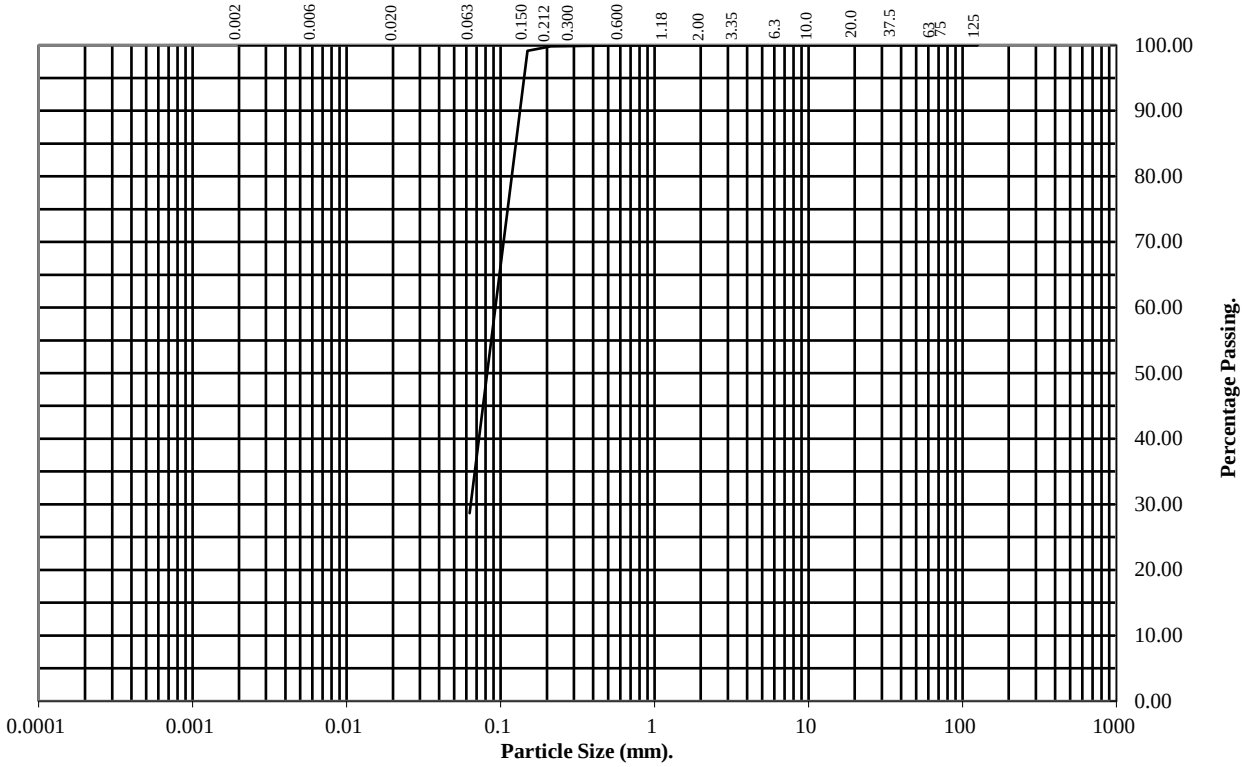
See Summary of Soil Descriptions

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:	**CP12**	**Top Depth (m):**	**3.60**
Sample Number:		**Base Depth(m):**	**4.50**
Sample Type:	**B**		



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	100
0.3	100
0.212	100
0.15	99
0.063	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	71
Silt/Clay	29

Remarks:

See Summary of Soil Descriptions

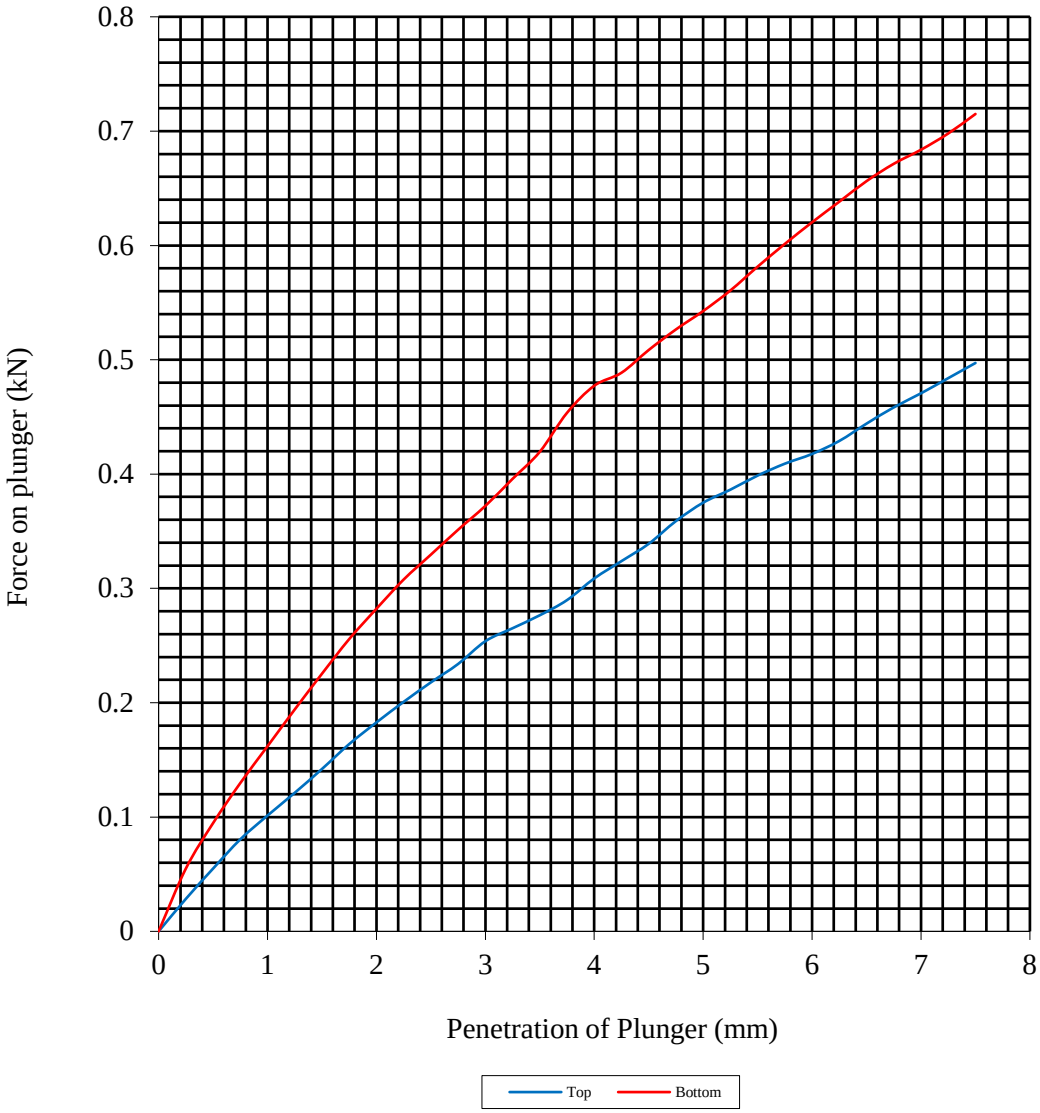
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP3 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.20

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	22	Surcharge Kg:	4.20	Sample Top	24	Sample Top	1.9
Bulk Density Mg/m3:	1.88	Soaking Time hrs	96	Sample Bottom	24	Sample Bottom	2.7
Dry Density Mg/m3:	1.54	Swelling mm:	0.22	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

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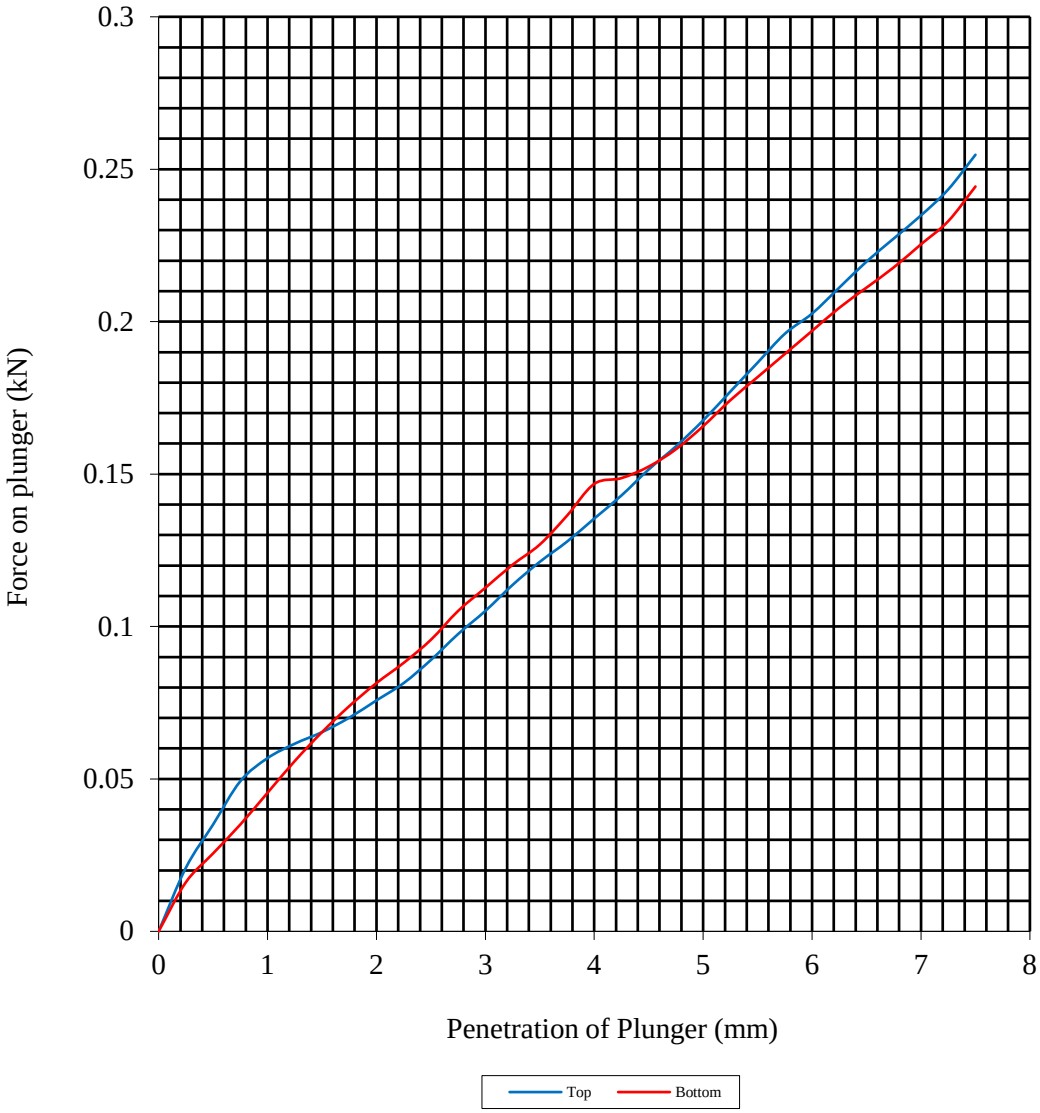
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP5 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.20

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	25	Surcharge Kg:	4.20	Sample Top	27	Sample Top	0.8
Bulk Density Mg/m3:	1.99	Soaking Time hrs	96	Sample Bottom	27	Sample Bottom	0.8
Dry Density Mg/m3:	1.59	Swelling mm:	0.46	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

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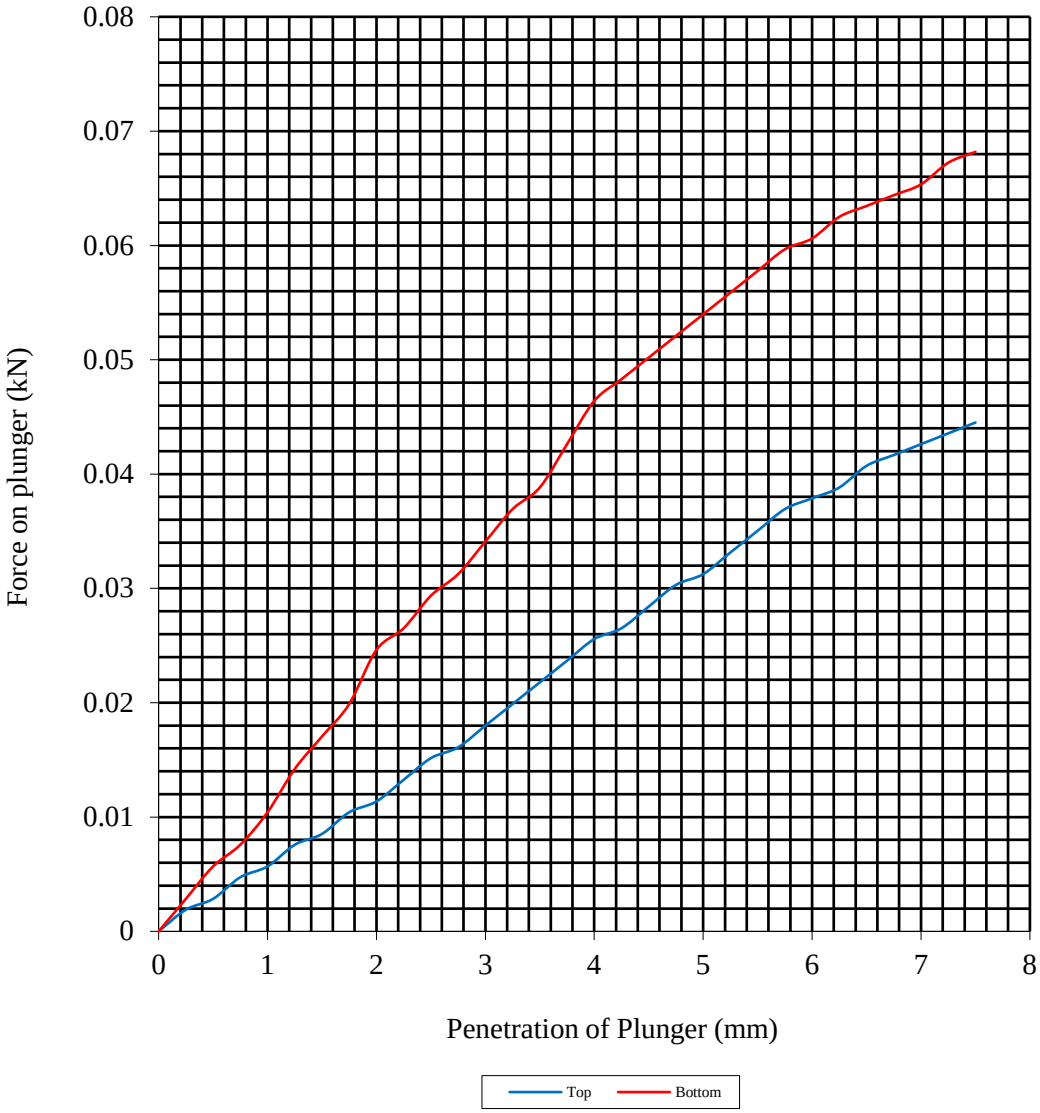
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP7 **Top Depth (m):** 1.20

Sample Number: **Base Depth (m):** 1.80

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	38	Surcharge Kg:	4.20	Sample Top	40	Sample Top	0.2
Bulk Density Mg/m3:	1.81	Soaking Time hrs	96	Sample Bottom	39	Sample Bottom	0.3
Dry Density Mg/m3:	1.31	Swelling mm:	0.18	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

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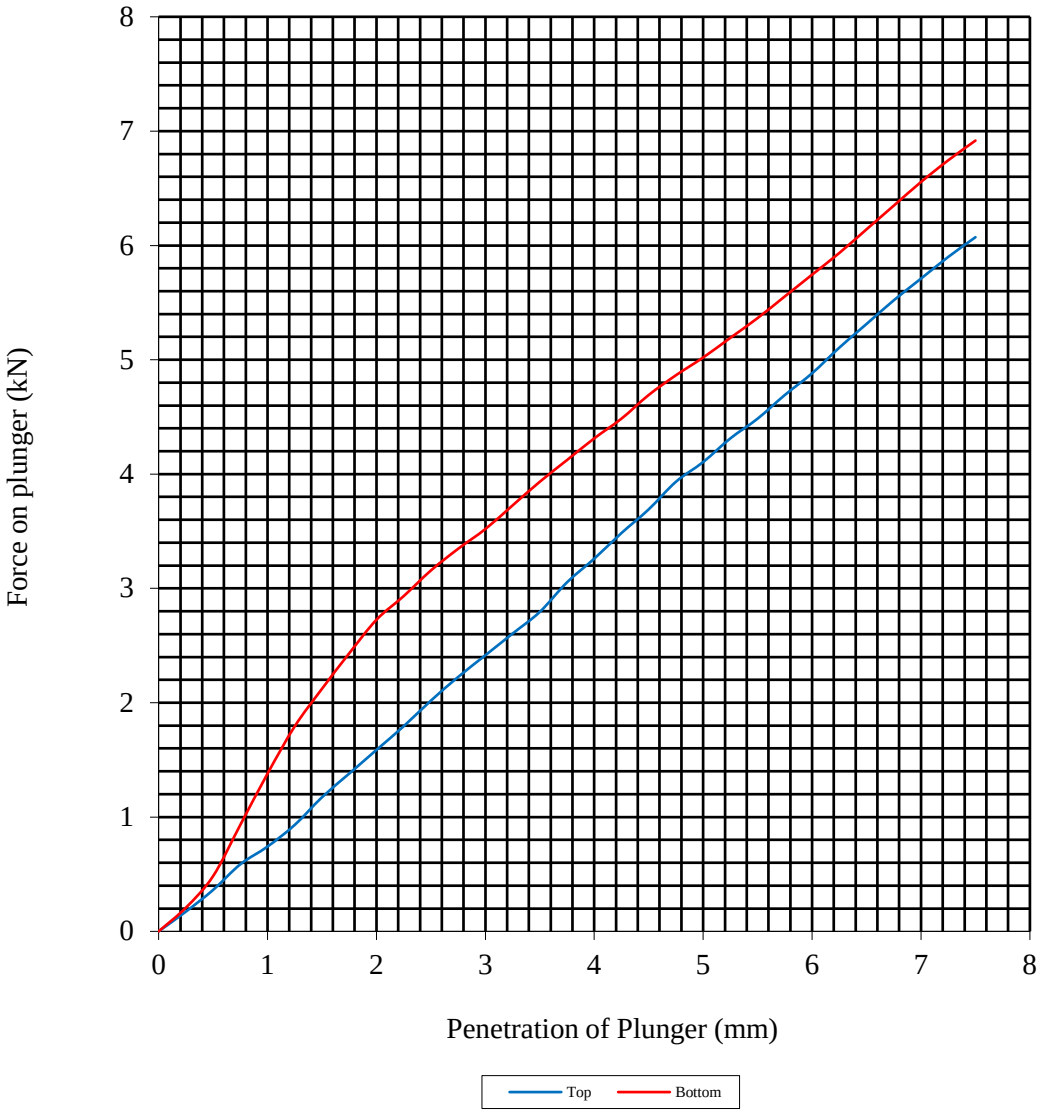
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP9 **Top Depth (m):** 0.00

Sample Number: **Base Depth (m):** 0.30

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	9.3	Surcharge Kg:	4.20	Sample Top	11	Sample Top	20.5
Bulk Density Mg/m3:	2.07	Soaking Time hrs	96	Sample Bottom	10	Sample Bottom	25.1
Dry Density Mg/m3:	1.89	Swelling mm:	0.11	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			8				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

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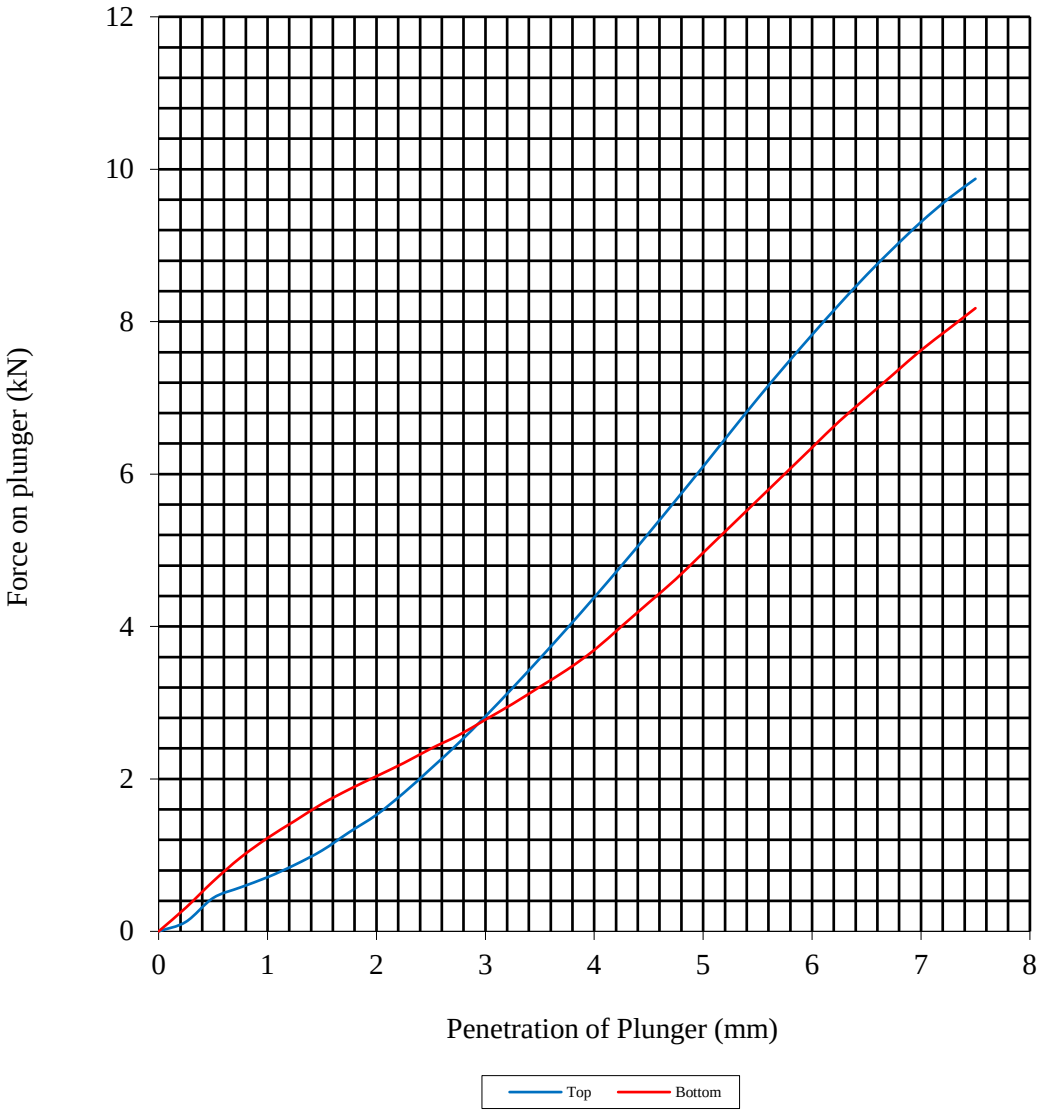
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: CP11 **Top Depth (m):** 0.50

Sample Number: **Base Depth (m):** 1.00

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	9.3	Surcharge Kg:	4.20	Sample Top	11	Sample Top	30.5
Bulk Density Mg/m3:	1.69	Soaking Time hrs	96	Sample Bottom	11	Sample Bottom	24.8
Dry Density Mg/m3:	1.55	Swelling mm:	1.84	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

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Lincs Gateway, Spalding

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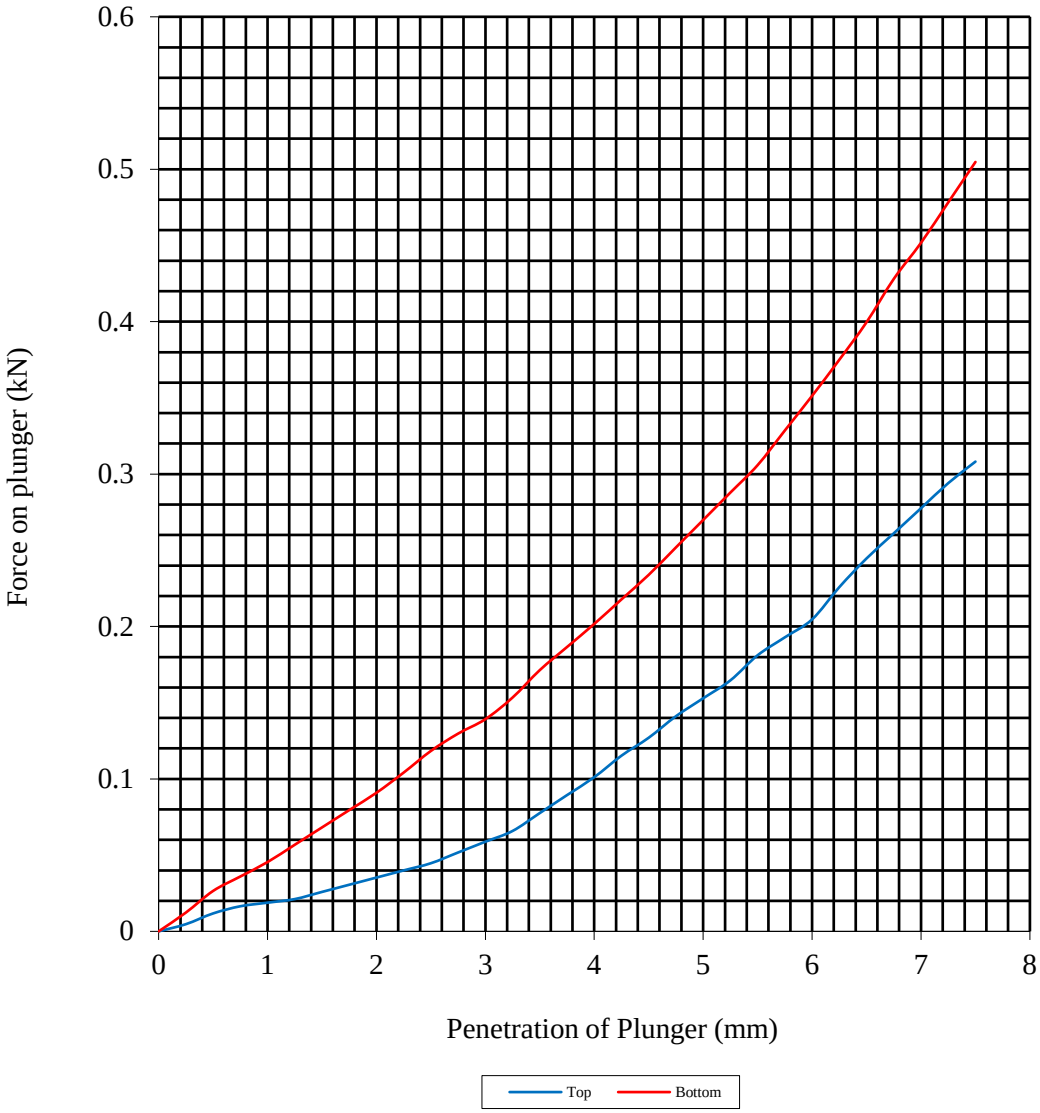
CALIFORNIA BEARING RATIO TEST

BS 1377 : Part 4 : 1990

Hole Number: TP3 **Top Depth (m):** 1.30

Sample Number: **Base Depth (m):**

Sample Type: B



Initial Sample Conditions		Sample Preparation		Final Moisture Content %		C.B.R. Value %	
Moisture Content:	27	Surcharge Kg:	4.20	Sample Top	30	Sample Top	0.8
Bulk Density Mg/m3:	1.89	Soaking Time hrs	96	Sample Bottom	29	Sample Bottom	1.3
Dry Density Mg/m3:	1.49	Swelling mm:	0.42	Remarks : See Summary of Soil Descriptions.			
Percentage retained on 20mm BS test sieve:			0				
Compaction Conditions		2.5kg					

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: PSL22/3231

Client Ref: 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

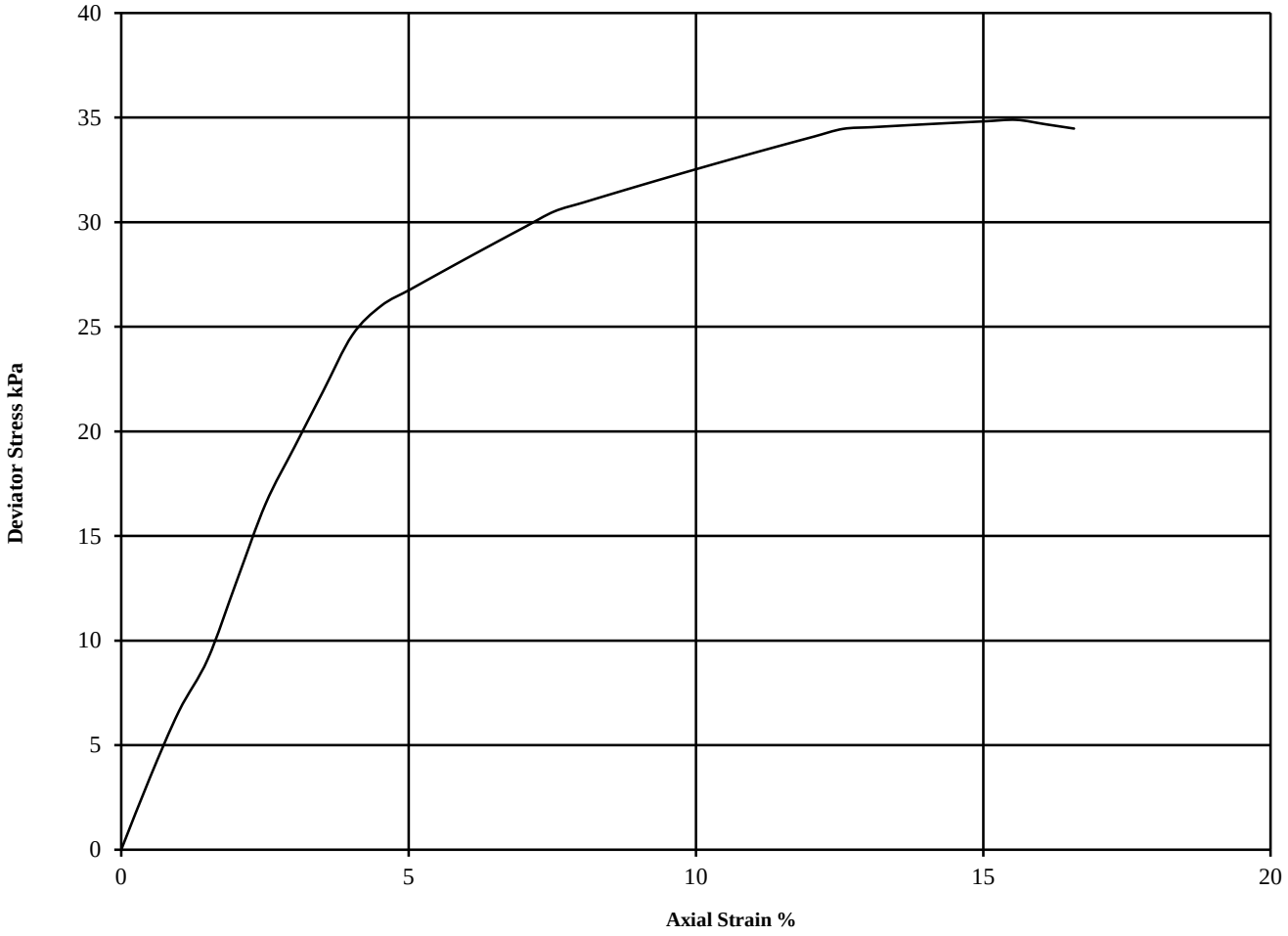
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP2** **Top Depth (m):** **8.55**

Sample Number: **Base Depth (m):** **9.00**

Sample Type **U**



Diameter (mm):		103	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	60	1.53	0.95	95	35	17	15.6	Plastic	See summary of soil descriptions

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PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

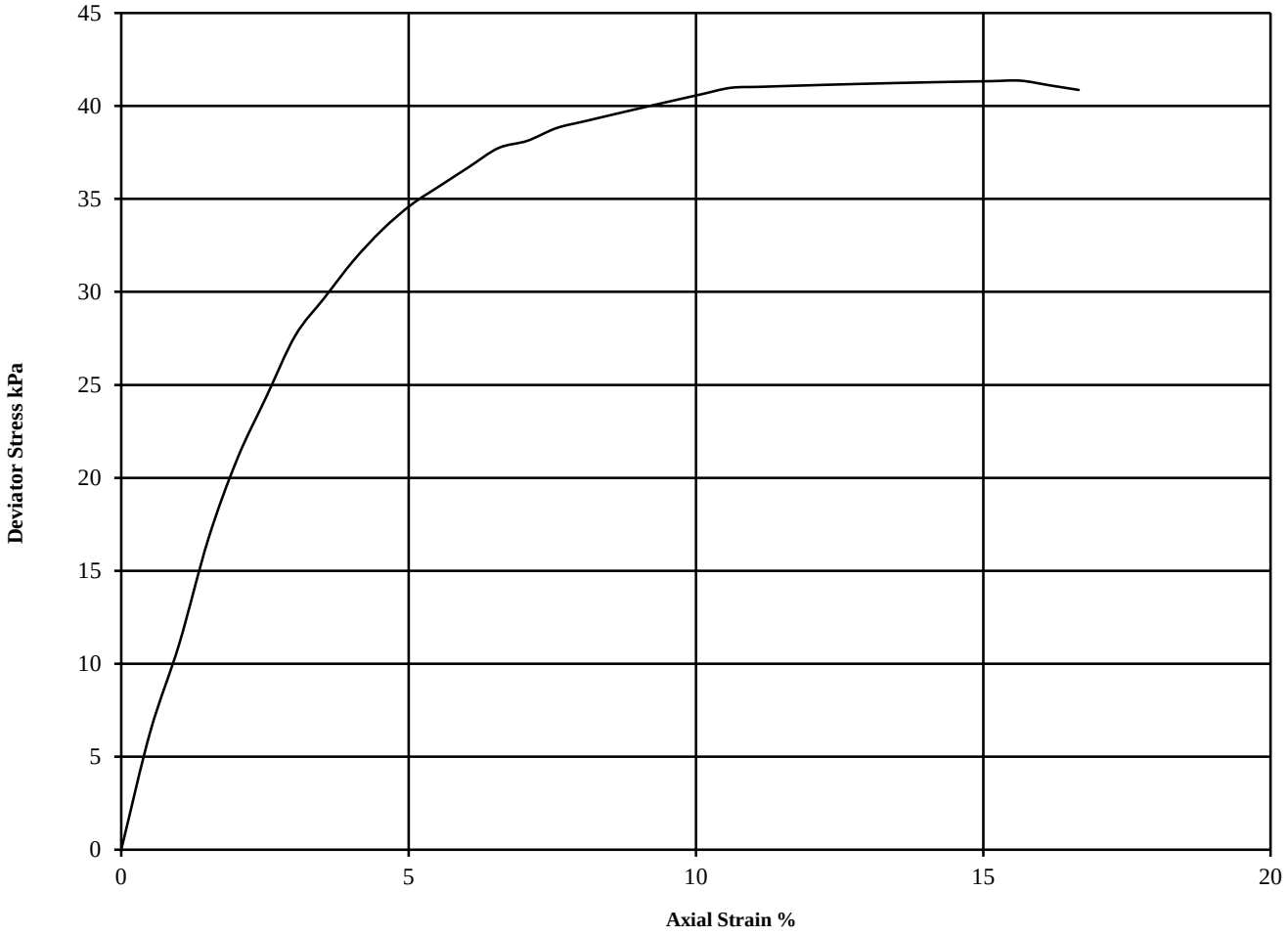
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP4** **Top Depth (m):** **4.50**

Sample Number: **Base Depth (m):**

Sample Type **U**



Diameter (mm):		103	Height (mm):		204	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	115	1.40	0.65	65	41	21	15.7	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

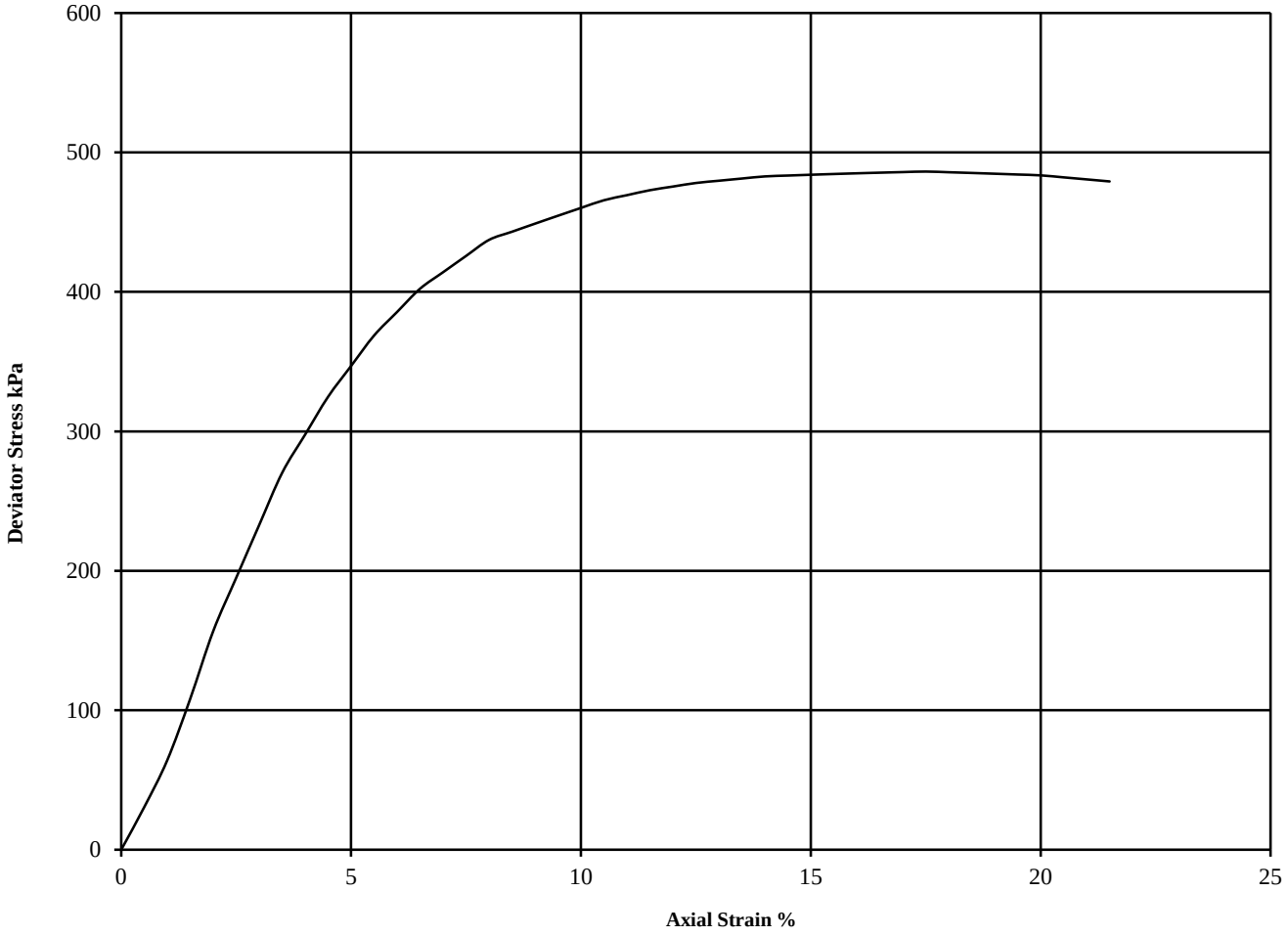
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP6** **Top Depth (m):** **13.50**

Sample Number: **Base Depth (m):** **13.95**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	15	2.21	1.92	138	486	243	17.5	Intermediate	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

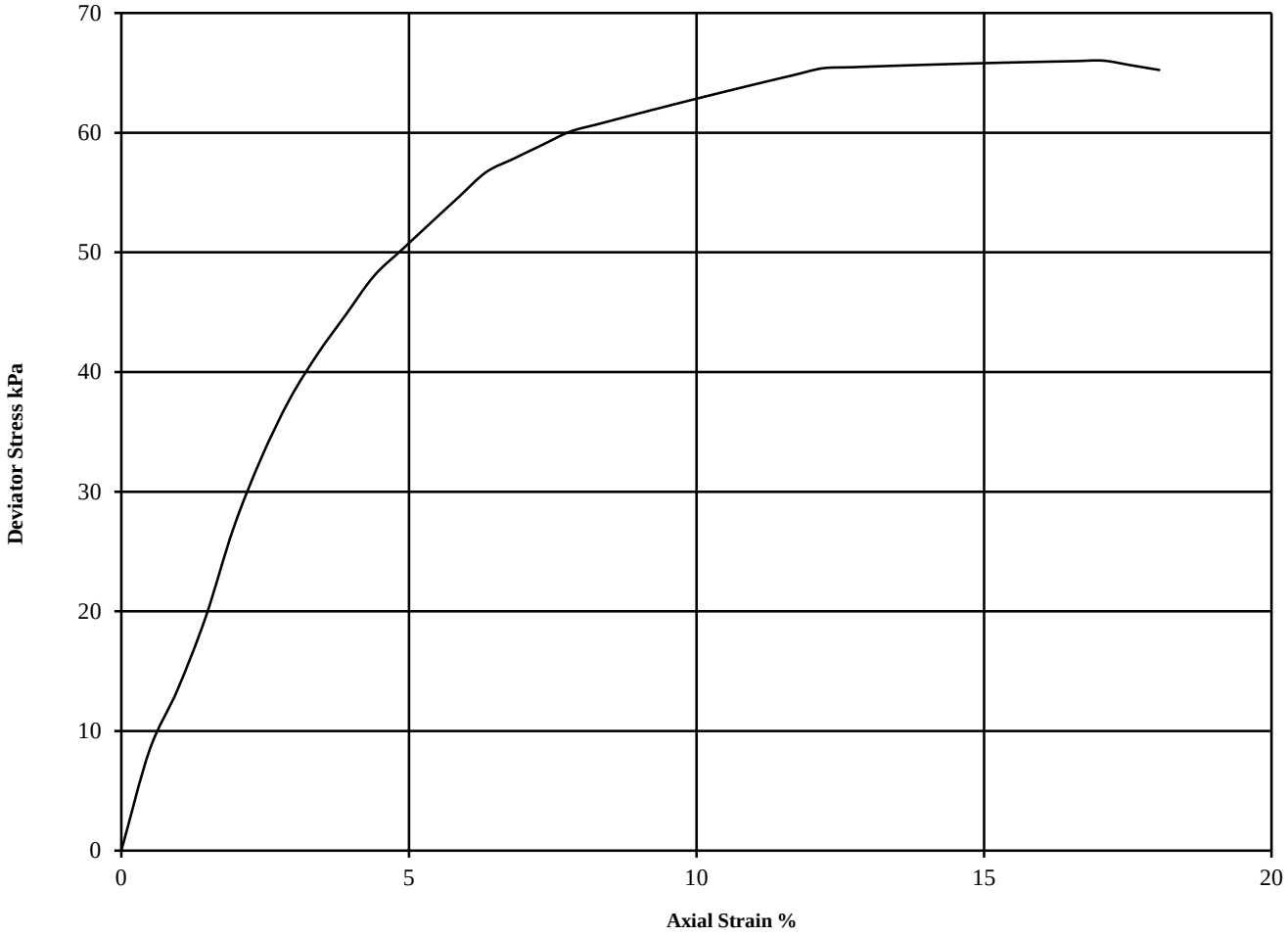
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP8** **Top Depth (m):** **1.20**

Sample Number: **Base Depth (m):** **1.65**

Sample Type **U**



Diameter (mm):		100	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	32	1.88	1.42	22	66	33	17.1	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

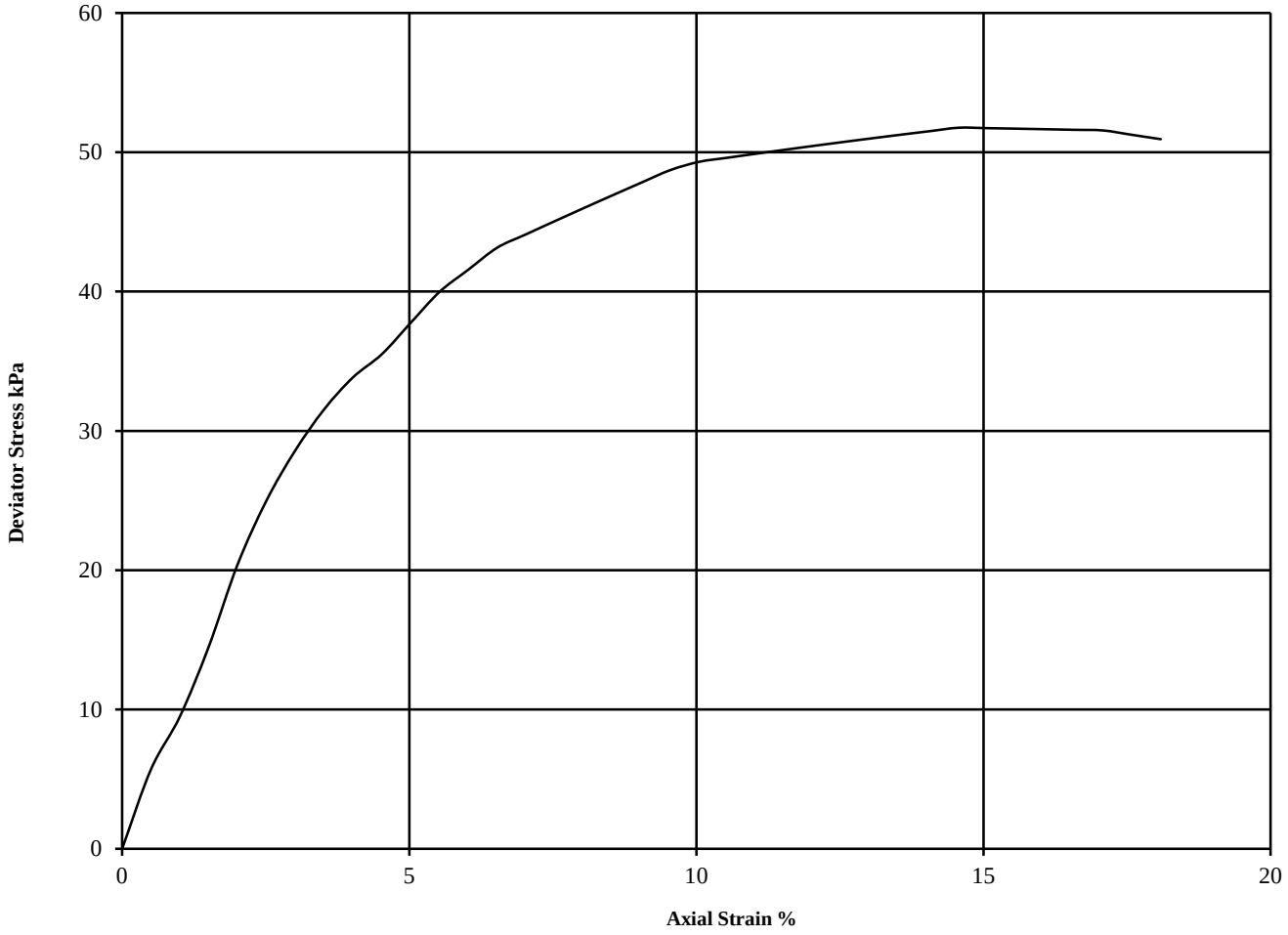
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP8** **Top Depth (m):** **4.20**

Sample Number: **Base Depth (m):** **4.65**

Sample Type **U**



Diameter (mm):		103	Height (mm):		205	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	93	1.48	0.77	64	52	26	14.6	Plastic	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

Client Ref: **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

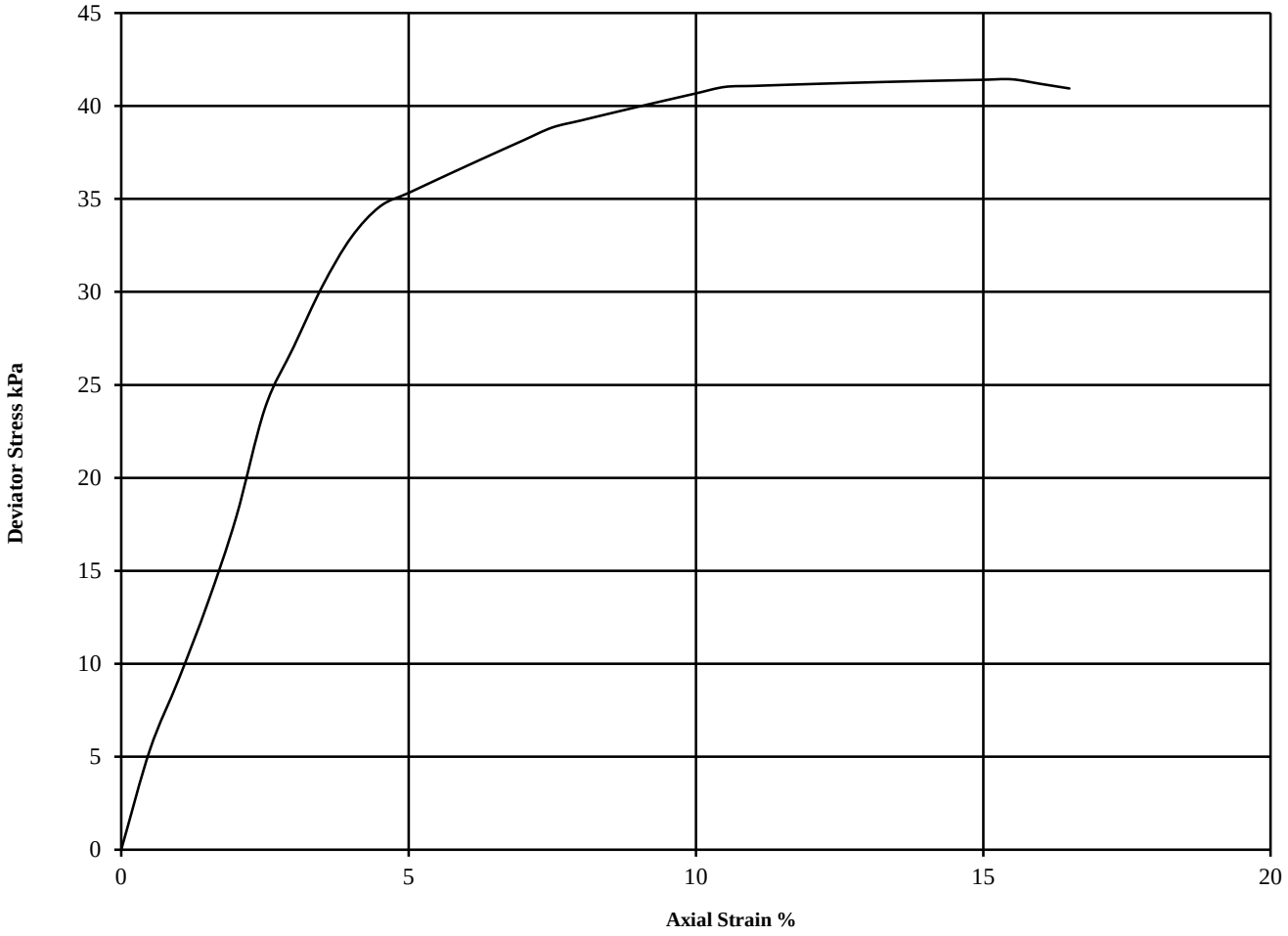
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **2.20**

Sample Number: **Base Depth (m):** **2.65**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	62	1.65	1.02	40	41	21	15.5	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** **PSL22/3231** **Client Ref:** **46934**

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

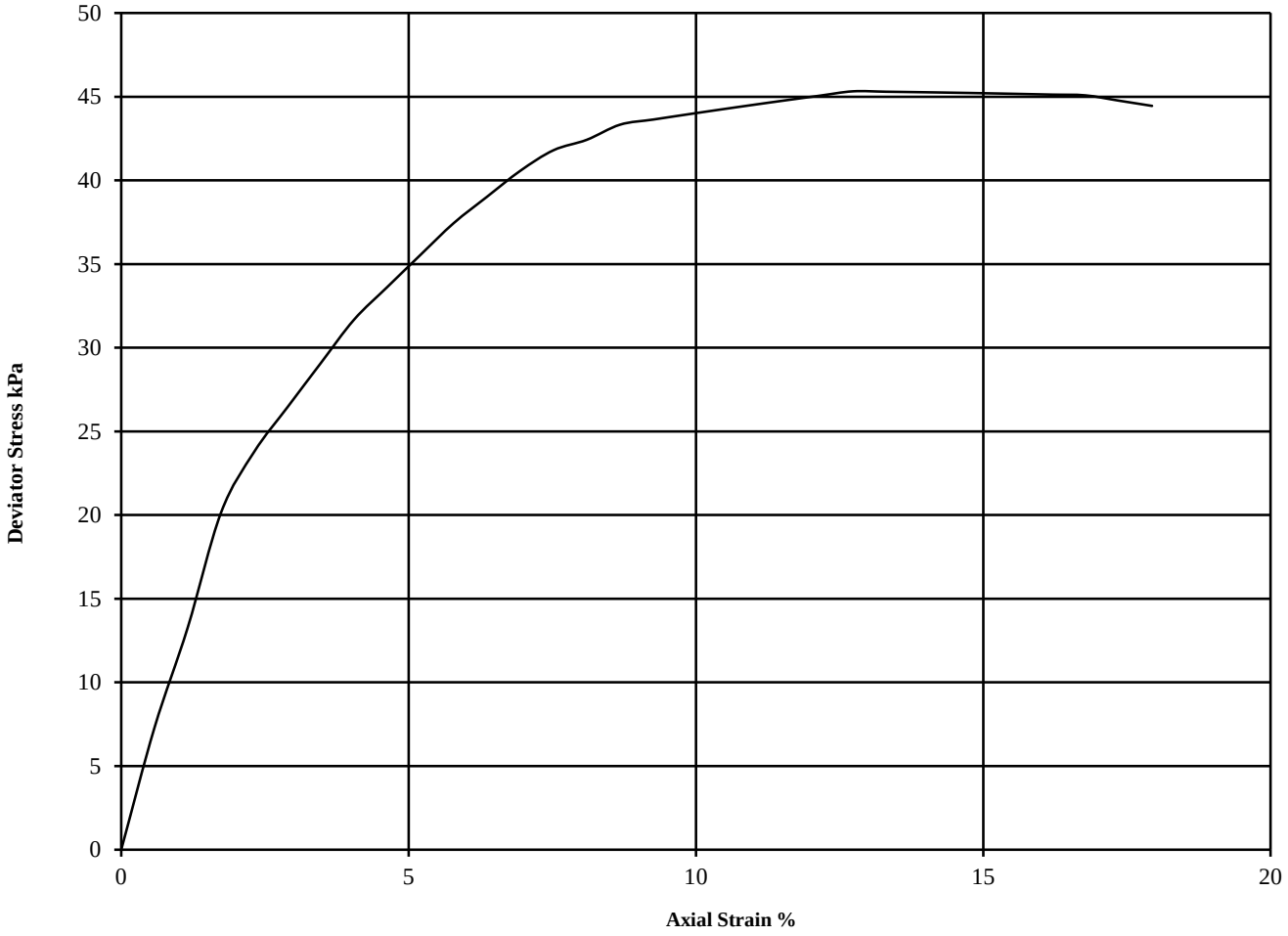
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **8.85**

Sample Number: **Base Depth (m):** **9.30**

Sample Type **U**



Diameter (mm):		103	Height (mm):		178	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	52	1.59	1.05	101	45	23	12.7	Plastic	See summary of soil descriptions

UKAS TESTING 4043	PSL Professional Soils Laboratory	**Lincs Gateway, Spalding**	**Contract No:** PSL22/3231 **Client Ref:** 46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

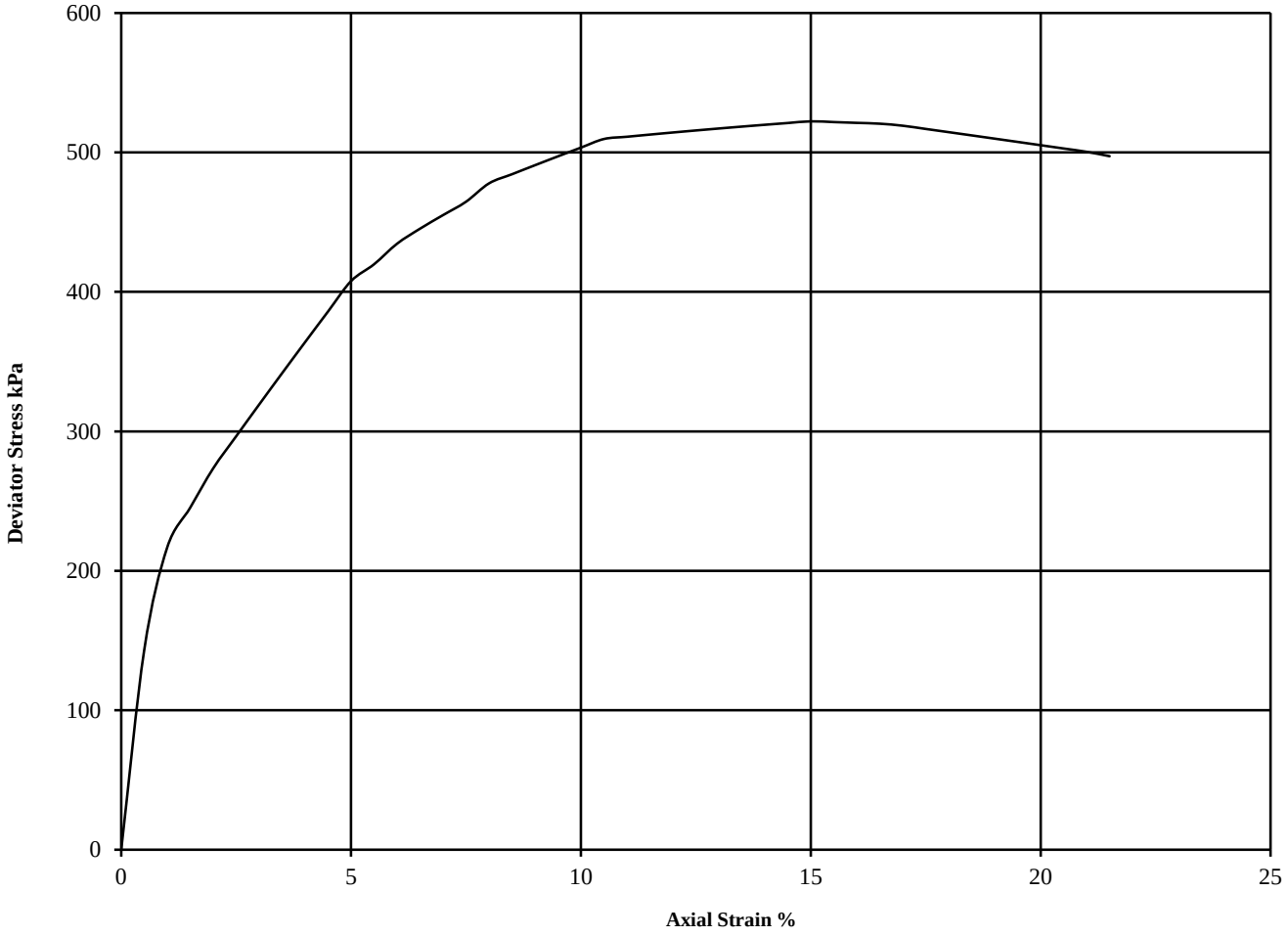
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **13.35**

Sample Number: **Base Depth (m):** **13.80**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.34
1	16	2.06	1.77	137	522	261	15.0	Intermediate	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No:
PSL22/3231
Client Ref:
46934

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

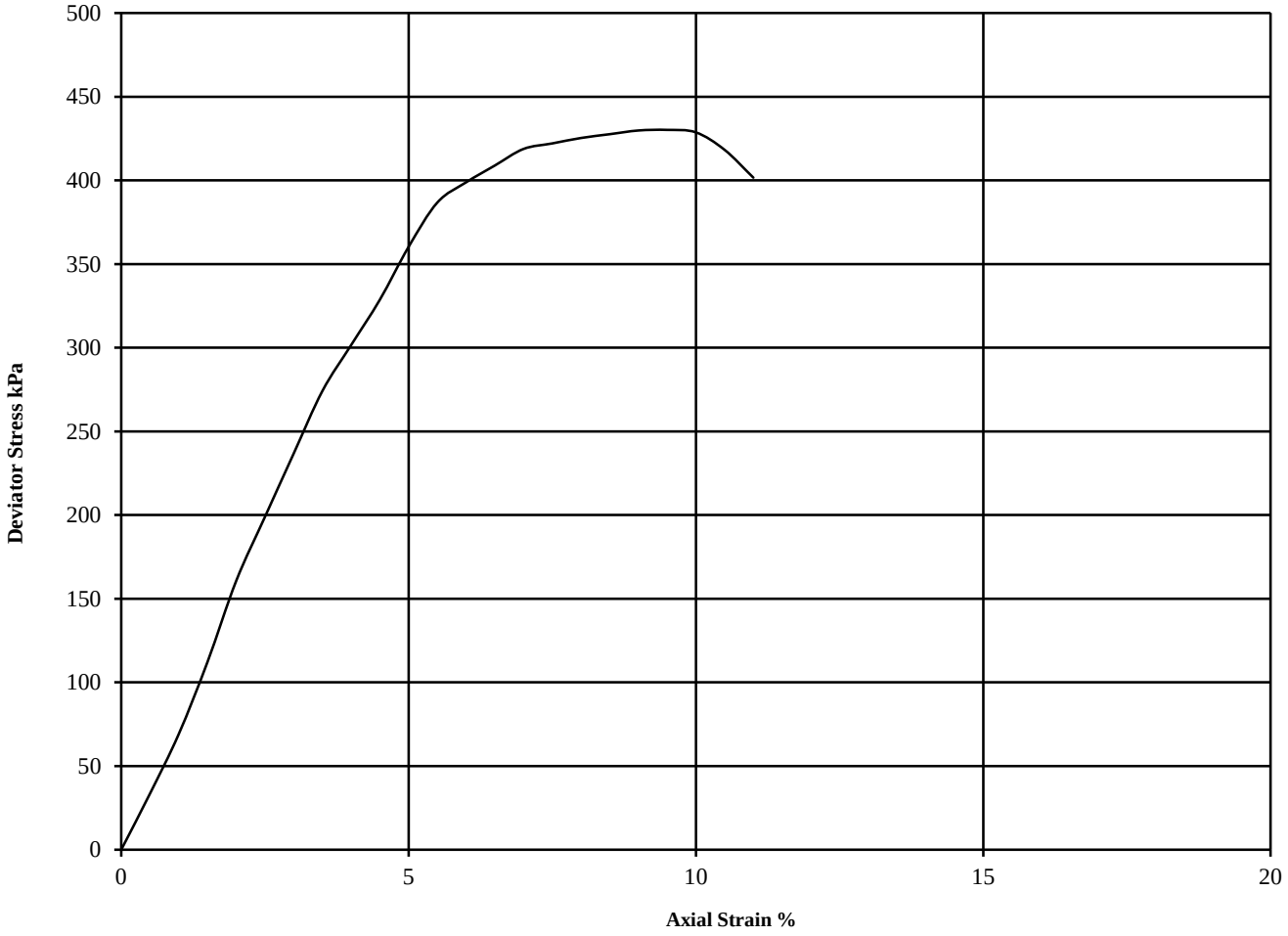
WITHOUT MEASUREMENT OF PORE PRESSURE

BS1377 : Part7 : 1990: Clause 8

Hole Number: **CP10** **Top Depth (m):** **16.45**

Sample Number: **Base Depth (m):** **16.90**

Sample Type **U**



Diameter (mm):		103	Height (mm):		206	Test:	UU Single Stage		Remarks:
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Undisturbed Sample Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thick, Correction applied 0.35
1	16	2.13	1.84	162	430	215	9.5	Brittle	See summary of soil descriptions

UKAS TESTING 4043

PSL Professional Soils Laboratory

Lincs Gateway, Spalding

Contract No: **PSL22/3231**

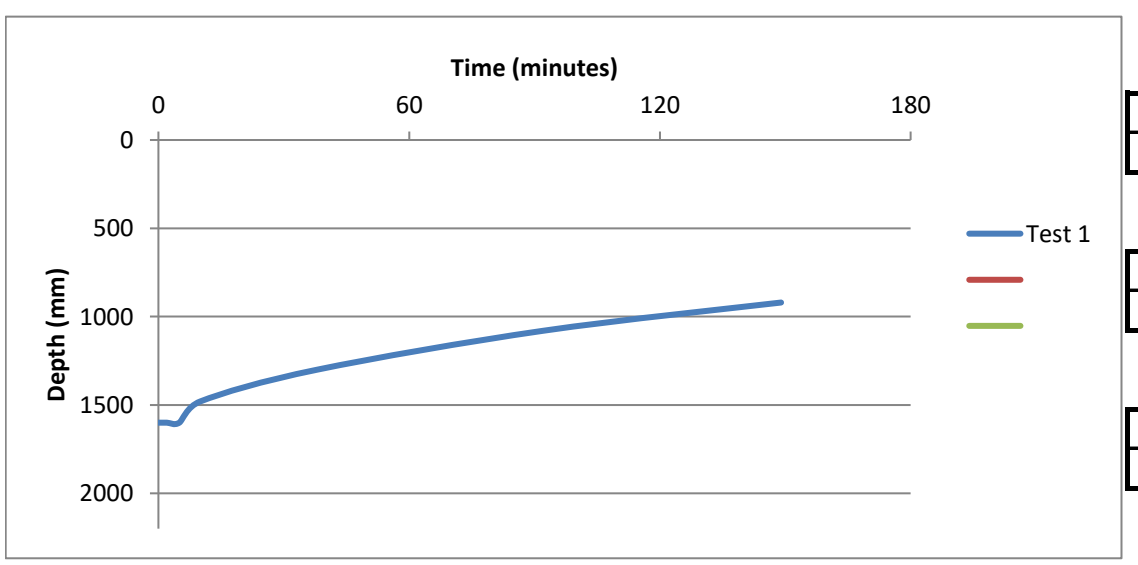
Client Ref: **46934**

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA01/TP02

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		1800		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		800		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		2200		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		1.44		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)				Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		1600		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	09:41	1600	0								
1	09:43	1600	2								
1	09:46	1600	5								
1	09:51	1480	10								
1	10:19	1300	38								
1	11:13	1080	92								
1	12:10	920	149								
Final depth		920		Final depth				Final depth			
75% Effective depth (mm)		1750		75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)		2050		25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)		n/a		Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)		n/a		Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)		0.864		Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)		0.432		V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)		3		Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)		n/a		t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate		**n/a**		**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate		**n/a**		**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

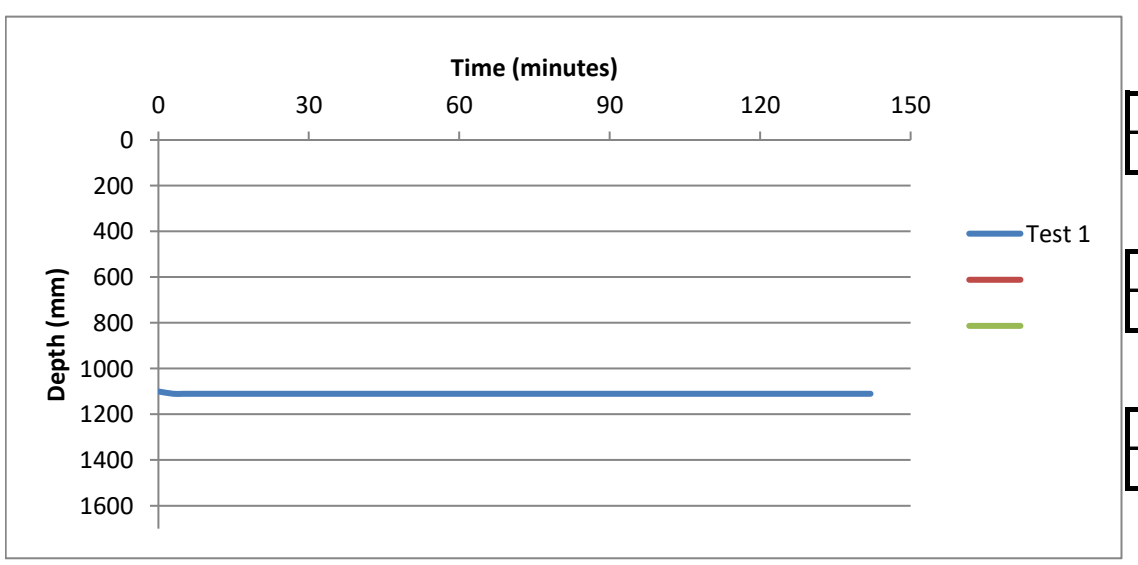
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA02/TP14

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		1600		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		600		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		1700		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		0.96		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)				Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		1100		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	10:00	1100	0								
1	10:03	1110	3								
1	10:05	1110	5								
1	10:10	1110	10								
1	11:24	1110	84								
1	12:22	1110	142								
Final depth		1110		Final depth				Final depth			
75% Effective depth (mm)			1250	75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)			1550	25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)			n/a	Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)			n/a	Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)			0.576	Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)			0.288	V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)			2.28	Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)			n/a	t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate			**n/a**	**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate			**3.1E-07**	**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

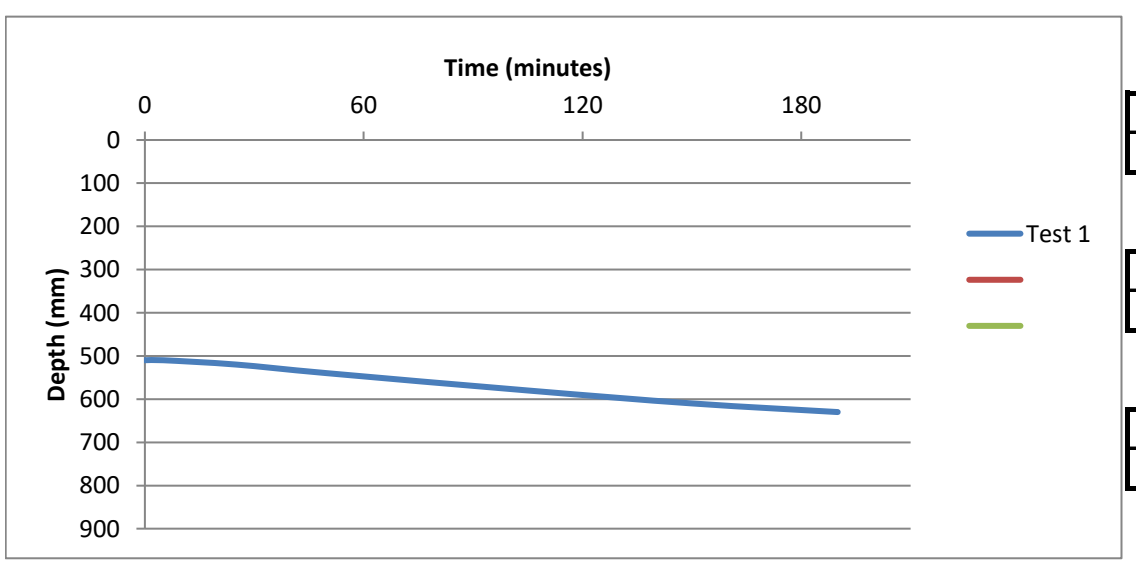
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA03/TP18B

Test 1											
Pit Dimensions											
Trial pit length (mm)	2500										
Trial pit width (mm)	600										
Trial pit depth (mm)	900										
Plan area (m^2)	1.5										
Time to discharge water (s)	120										
Depth to water at start of test (mm)	510										
Time to soakaway											
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
1	10:20	510	0								
1	10:25	510	5								
1	10:45	520	25								
1	11:05	540	50								
1	12:00	580	105								
1	12:45	610	150								
1	13:25	630	190								
Final depth		630		Final depth				Final depth			
75% Effective depth (mm)	607.5			75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)	802.5			25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)	148			Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)	m/a			Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)	0.585			Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)	0.2925			V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)	2.709			Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)	n/a			t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate	**n/a**			**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate	**4.5E-06**			**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

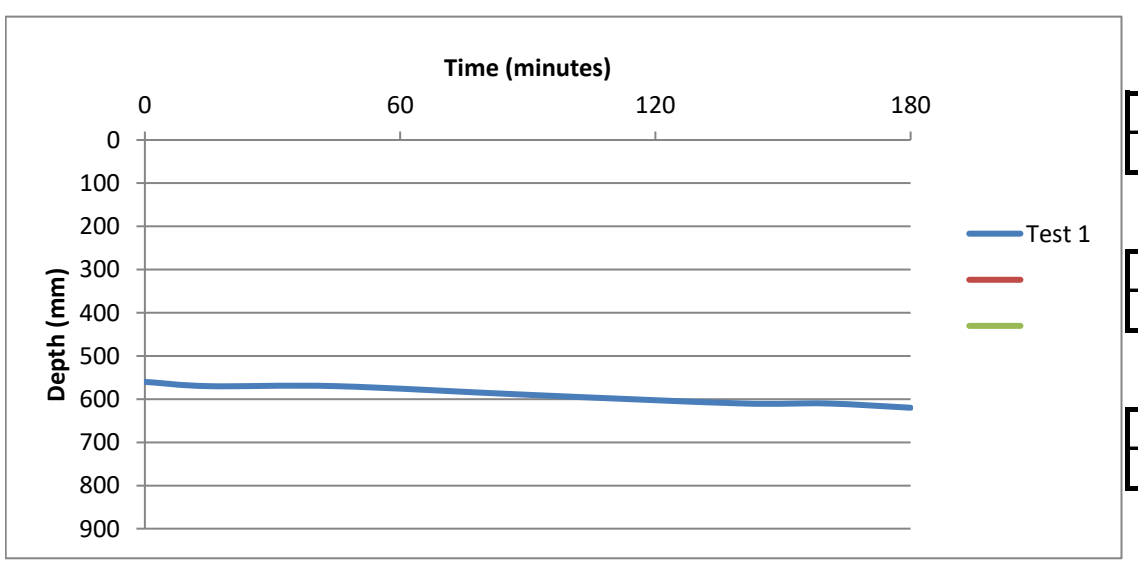
Calculation checked by	DN
Date	28/04/2022

EASTWOOD PARTNERS
(Consulting Engineers) Ltd

Infiltration Test Results and Calculation of Infiltration Rates

Site: Lincs Gateway, Spalding
Client: Alcor Properties Limited
Test Reference: SA04/TP33B

Test 1											
Pit Dimensions				**Pit Dimensions**				**Pit Dimensions**			
Trial pit length (mm)		2300		Trial pit length (mm)				Trial pit length (mm)			
Trial pit width (mm)		600		Trial pit width (mm)				Trial pit width (mm)			
Trial pit depth (mm)		950		Trial pit depth (mm)				Trial pit depth (mm)			
Plan area (m^2)		1.38		Plan area (m^2)				Plan area (m^2)			
Time to discharge water (s)		30		Time to discharge water (s)				Time to discharge water (s)			
Depth to water at start of test (mm)		560		Depth to water at start of test (mm)				Depth to water at start of test (mm)			
Time to soakaway				**Time to soakaway**				**Time to soakaway**			
Time		Depth to Water	Duration	Time		Depth to Water	Duration	Time		Depth to Water	Duration
Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes	Day	Time	(mm bgl)	Minutes
2	11:30	560	0								
2	11:45	570	15								
2	12:15	570	45								
2	13:00	590	90								
2	13:50	610	140								
2	14:10	610	160								
2	14:30	620	180								
Final depth		620		Final depth				Final depth			
75% Effective depth (mm)			657.5	75% Effective depth (mm)				75% Effective depth (mm)			
25% Effective depth (mm)			852.5	25% Effective depth (mm)				25% Effective depth (mm)			
Time at 75% effective depth - t_{p75} (min)			n/a	Time at 75% effective depth - t_{p75} (min)				Time at 75% effective depth - t_{p75} (min)			
Time at 25 % effective depth - t_{p25} (min)			n/a	Time at 25 % effective depth - t_{p25} (min)				Time at 25 % effective depth - t_{p25} (min)			
Effective Storage volume of water (m^3)			0.5382	Effective Storage volume of water (m^3)				Effective Storage volume of water (m^3)			
V_{p75-25} (m^3)			0.2691	V_{p75-25} (m^3)				V_{p75-25} (m^3)			
Internal surface area - a_{p50} (m^2)			2.511	Internal surface area - a_{p50} (m^2)				Internal surface area - a_{p50} (m^2)			
t_{p75-25} (sec)			n/a	t_{p75-25} (sec)				t_{p75-25} (sec)			
BR365 Soil Infiltration Rate			**n/a**	**BR365 Soil Infiltration Rate (f)**				**BR365 Soil Infiltration Rate (f)**			
Average Soil Infiltration Rate			**2.2E-06**	**Average Soil Infiltration Rate**				**Average Soil Infiltration Rate**			



Testing completed by	DN
Date	13/04/2022

Calculation completed by	EJD
Date	27/04/2022

Calculation checked by	DN
Date	28/04/2022

Appendix 5

Chemical Test Results – Chemtest Reports 22-14360-6 & 22-16401-1, Chemtech Report 109316-1

Modified Mean Calculation sheets

Table of Assessment Values – Commercial / Industrial End-Use

eurofins | Chemtest
Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Amended Report

Report No.:	22-14360-6		
Initial Date of Issue:	25-Apr-2022	**Date of Re-Issue:**	23-May-2022
Client	Eastwood & Partners		
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS		
Contact(s):	Daniel Nowell Geo		
Project	DN/AJK/46934 Lincs Gateway, Spalding		
Quotation No.:		**Date Received:**	19-Apr-2022
Order No.:	46934	**Date Instructed:**	19-Apr-2022
No. of Samples:	43		
Turnaround (Wkdays):	25	**Results Due:**	24-May-2022
Date Approved:	23-May-2022		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412730	1412731	1412732	1412733	1412734	1412735	1412736	1412737	1412738
Order No.: 46934		Client Sample Ref.:			TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP08	TP08
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.3	0.3	0.6	0.3	0.3	1.5	0.3	0.3	0.6
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-		-	-		-	-	
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.020	17	14	16	15	19	33	16	15	18
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Clay	Clay	Clay	Sand	Sand
pH	M	2010		4.0	8.3	8.2	8.6	8.6	9.0	7.4	9.0	8.7	8.7
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.041			0.31			0.018
Total Sulphur	M	2175	%	0.010			0.016			0.16			< 0.010
Sulphate (Acid Soluble)	U	2430	%	0.010			< 0.010			0.031			< 0.010
Arsenic	M	2455	mg/kg	1.0	7.2	13	8.2	1.9	6.4		5.4	4.7	7.0
Cadmium	M	2455	mg/kg	0.10	0.12	0.11	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	16	29	16	5.5	15		14	11	14
Copper	M	2455	mg/kg	0.50	9.7	16	10	3.2	8.7		8.0	6.1	6.2
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	14	25	14	4.9	14		13	9.7	13
Lead	M	2455	mg/kg	0.50	10	19	9.0	2.8	7.7		7.1	5.5	5.7
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	31	54	33	12	29		28	22	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20					1.3	1.9			
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412730	1412731	1412732	1412733	1412734	1412735	1412736	1412737	1412738
Order No.: 46934		Client Sample Ref.:			TP01	TP02	TP02	TP03	TP04	TP04	TP05	TP08	TP08
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.3	0.3	0.6	0.3	0.3	1.5	0.3	0.3	0.6
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners				**Chemtest Job No.:**	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:				**Chemtest Sample ID.:**	1412739	1412740	1412741	1412742	1412743	1412744	1412745	1412746	1412747
Order No.: 46934				Client Sample Ref.:	TP08	TP11	TP11	TP12	TP12	TP13	TP15	TP16	TP17
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	1.6	0.3	1.2	0.2	0.6	0.8	0.3	0.5	0.1
				Date Sampled:	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A		-		-			-		-
Asbestos Identification	U	2192		N/A		No Asbestos Detected		No Asbestos Detected			No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	30	17	33	16	29	26	19	20	16
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones and Roots	Stones	Stones and Roots
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Sand	Sand	Clay	Loam	Clay	Sand
pH	M	2010		4.0	8.3	8.6	8.5	8.5	8.7	8.5	8.5	8.4	8.5
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.093		0.050		0.017	0.037		0.035	
Total Sulphur	M	2175	%	0.010	0.046		0.043		0.022	0.026		0.028	
Sulphate (Acid Soluble)	U	2430	%	0.010	0.075		0.045		< 0.010	0.018		0.018	
Arsenic	M	2455	mg/kg	1.0		14		7.4	3.9	13	9.5	8.5	11
Cadmium	M	2455	mg/kg	0.10		0.13		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0		27		15	7.5	35	20	21	21
Copper	M	2455	mg/kg	0.50		20		9.5	2.9	13	21	7.6	12
Mercury	M	2455	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50		22		13	7.1	31	17	17	17
Lead	M	2455	mg/kg	0.50		14		8.0	2.7	13	17	8.2	11
Selenium	M	2455	mg/kg	0.20		< 0.20		< 0.20	< 0.20	0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50		36		14	< 0.50	49	38	19	24
Chromium (Hexavalent)	N	2490	mg/kg	0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20	1.1	1.3	1.2						1.1
Naphthalene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	0.18	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412739	1412740	1412741	1412742	1412743	1412744	1412745	1412746	1412747
Order No.: 46934		Client Sample Ref.:			TP08	TP11	TP11	TP12	TP12	TP13	TP15	TP16	TP17
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			1.6	0.3	1.2	0.2	0.6	0.8	0.3	0.5	0.1
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0		< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20		< 0.20							< 0.20
Phorate	N	2820	mg/kg	0.20		< 0.20							< 0.20
Demeton-S	N	2820	mg/kg	0.20		< 0.20							< 0.20
Disulfoton	N	2820	mg/kg	0.20		< 0.20							< 0.20
Fenthion	N	2820	mg/kg	0.20		< 0.20							< 0.20
Trichloronate	N	2820	mg/kg	0.20		< 0.20							< 0.20
Prothiofos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Fensulphothion	N	2820	mg/kg	0.20		< 0.20							< 0.20
Sulprofos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Azinphos-Methyl	N	2820	mg/kg	0.20		< 0.20							< 0.20
Coumaphos	N	2820	mg/kg	0.20		< 0.20							< 0.20
Alpha-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20		< 0.20							< 0.20
Beta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Delta-HCH	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Aldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20		< 0.20							< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan I	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDE	N	2840	mg/kg	0.20		< 0.20							< 0.20
Dieldrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDD	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan II	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20		< 0.20							< 0.20
4,4-DDT	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20		< 0.20							< 0.20
Methoxychlor	N	2840	mg/kg	0.20		< 0.20							< 0.20
Endrin Ketone	N	2840	mg/kg	0.20		< 0.20							< 0.20

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412748	1412749	1412750	1412751	1412752	1412753	1412754	1412755	1412756
Order No.: 46934		Client Sample Ref.:			TP18	TP19	TP20	TP20	TP21	TP21	TP22	TP22	TP23
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.1	0.5	0.1	1.2	0.1	0.9	0.1
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A	-	-	-	-	-		-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	16	12	19	23	29	9.3	15	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones	Stones and Roots	Stones	Stones and Roots	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Clay	Sand
pH	M	2010		4.0	8.5	8.6	8.6	8.6	8.3	8.2	8.6	8.3	8.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.11	0.12	0.20	0.17	0.21	0.39	
Total Sulphur	M	2175	%	0.010			0.23	0.023	0.11	0.13	0.11	0.15	
Sulphate (Acid Soluble)	U	2430	%	0.010			0.16	0.017	0.080	0.055	0.077	0.069	
Arsenic	M	2455	mg/kg	1.0	11	8.4	18	10	9.1		6.8	8.2	5.3
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	0.14	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	23	17	23	16	14		11	14	11
Copper	M	2455	mg/kg	0.50	13	11	19	7.5	23		8.7	9.5	7.5
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16		< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	19	15	20	15	15		10	13	9.2
Lead	M	2455	mg/kg	0.50	13	10	16	6.8	59		10	6.2	7.9
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	31	21	39	16	55		25	19	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20		1.2				2.2			0.20
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.37	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.98	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.75	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	8.7	< 0.10	1.8		6.8	0.15	0.81
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	3.1	< 0.10	0.43		2.9	< 0.10	0.33
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	27	0.18	3.0		7.2	0.28	2.9
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	25	0.13	2.4		5.6	0.25	2.7
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	16	0.11	1.2		3.0	0.13	1.7
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	17	0.13	1.1		2.6	0.11	1.5
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	29	< 0.10	1.6		4.2	0.18	2.4
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	11	< 0.10	0.62		1.6	< 0.10	0.95
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	27	< 0.10	1.3		3.8	< 0.10	2.2
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	20	< 0.10	0.84		2.6	0.17	1.5
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	3.9	< 0.10	0.19		0.53	0.18	0.29
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	22	< 0.10	0.95		3.0	0.13	1.6

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:			**Chemtest Sample ID.:**		1412748	1412749	1412750	1412751	1412752	1412753	1412754	1412755	1412756
Order No.: 46934			Client Sample Ref.:		TP18	TP19	TP20	TP20	TP21	TP21	TP22	TP22	TP23
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.1	0.1	0.1	0.5	0.1	1.2	0.1	0.9	0.1
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	210	< 2.0	15		44	< 2.0	19
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners				**Chemtest Job No.:**	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:				**Chemtest Sample ID.:**	1412757	1412758	1412759	1412760	1412761	1412762	1412763	1412764	1412765
Order No.: 46934				Client Sample Ref.:	TP23	TP24	TP24	TP25	TP25	TP28	TP28	TP29	TP30
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.5	0.1	2.4	0.1	0.5	0.1	0.9	0.1	0.5
				Date Sampled:	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
				Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A		-		-		-		-	
Asbestos Identification	U	2192		N/A		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.020	18	17	29	16	18	12	19	15	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones	Stones	Stones	Stones and Roots
Soil Texture	N	2040		N/A	Sand	Sand	Clay	Clay	Sand	Sand	Sand	Sand	Sand
pH	M	2010		4.0	8.7	8.6	8.3	8.6	8.5	8.1	8.5	8.3	8.4
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.19		0.46		0.017	1.1	0.093		0.024
Total Sulphur	M	2175	%	0.010	0.033		0.51		0.011	0.39	0.038		0.027
Sulphate (Acid Soluble)	U	2430	%	0.010	0.023		0.090		< 0.010	0.48	0.049		< 0.010
Arsenic	M	2455	mg/kg	1.0	1.7	5.0		6.6	2.7	11	2.2	3.5	4.1
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.16	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	5.3	14		16	6.4	19	6.5	11	11
Copper	M	2455	mg/kg	0.50	2.2	8.1		8.4	2.5	9.8	3.1	5.5	5.0
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	5.1	10		11	5.4	16	6.7	11	11
Lead	M	2455	mg/kg	0.50	2.0	8.9		9.4	2.3	11	2.8	8.2	6.0
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	0.24	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	< 0.50	10		12	< 0.50	41	< 0.50	21	25
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20			1.3			0.34			
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.61	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	0.11	< 0.10		< 0.10	< 0.10	1.4	< 0.10	< 0.10	0.11
Pyrene	M	2800	mg/kg	0.10	0.11	0.12		< 0.10	< 0.10	1.1	< 0.10	< 0.10	0.13
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.80	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.64	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.81	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.44	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	1.1	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.68	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.13	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.71	< 0.10	< 0.10	< 0.10

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:			**Chemtest Sample ID.:**		1412757	1412758	1412759	1412760	1412761	1412762	1412763	1412764	1412765
Order No.: 46934			Client Sample Ref.:		TP23	TP24	TP24	TP25	TP25	TP28	TP28	TP29	TP30
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.5	0.1	2.4	0.1	0.5	0.1	0.9	0.1	0.5
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
			Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	8.5	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20								< 0.20	
Phorate	N	2820	mg/kg	0.20								< 0.20	
Demeton-S	N	2820	mg/kg	0.20								< 0.20	
Disulfoton	N	2820	mg/kg	0.20								< 0.20	
Fenthion	N	2820	mg/kg	0.20								< 0.20	
Trichloronate	N	2820	mg/kg	0.20								< 0.20	
Prothiofos	N	2820	mg/kg	0.20								< 0.20	
Fensulphothion	N	2820	mg/kg	0.20								< 0.20	
Sulprofos	N	2820	mg/kg	0.20								< 0.20	
Azinphos-Methyl	N	2820	mg/kg	0.20								< 0.20	
Coumaphos	N	2820	mg/kg	0.20								< 0.20	
Alpha-HCH	N	2840	mg/kg	0.20								< 0.20	
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20								< 0.20	
Beta-HCH	N	2840	mg/kg	0.20								< 0.20	
Delta-HCH	N	2840	mg/kg	0.20								< 0.20	
Heptachlor	N	2840	mg/kg	0.20								< 0.20	
Aldrin	N	2840	mg/kg	0.20								< 0.20	
Heptachlor Epoxide	N	2840	mg/kg	0.20								< 0.20	
Gamma-Chlordane	N	2840	mg/kg	0.20								< 0.20	
Alpha-Chlordane	N	2840	mg/kg	0.20								< 0.20	
Endosulfan I	N	2840	mg/kg	0.20								< 0.20	
4,4-DDE	N	2840	mg/kg	0.20								< 0.20	
Dieldrin	N	2840	mg/kg	0.20								< 0.20	
Endrin	N	2840	mg/kg	0.20								< 0.20	
4,4-DDD	N	2840	mg/kg	0.20								< 0.20	
Endosulfan II	N	2840	mg/kg	0.20								< 0.20	
Endrin Aldehyde	N	2840	mg/kg	0.20								< 0.20	
4,4-DDT	N	2840	mg/kg	0.20								< 0.20	
Endosulfan Sulphate	N	2840	mg/kg	0.20								< 0.20	
Methoxychlor	N	2840	mg/kg	0.20								< 0.20	
Endrin Ketone	N	2840	mg/kg	0.20								< 0.20	

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412766	1412767	1412768	1412769	1412770	1412771	1412772
Order No.: 46934		Client Sample Ref.:			TP31	TP32	TP32	TP33	PIT A	PIT A	PIT B
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.4	0.6	0.1	0.8	1.5
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type	U	2192		N/A	-	-			-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	18	16	16	17	11	15	14
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots	Stones and Roots	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Clay	Clay	Clay	Sand	Sand	Clay	Clay
pH	M	2010		4.0	8.5	8.3	8.6	8.7	8.5	8.5	8.3
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			0.011	0.024	0.14	0.081	0.36
Total Sulphur	M	2175	%	0.010			0.014	< 0.010	0.053	0.036	0.18
Sulphate (Acid Soluble)	U	2430	%	0.010			< 0.010	< 0.010	0.047	0.020	0.11
Arsenic	M	2455	mg/kg	1.0	4.3	2.9	2.8	1.8	6.8	1.1	4.8
Cadmium	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2455	mg/kg	1.0	11	9.1	16	10	9.0	5.0	10
Copper	M	2455	mg/kg	0.50	5.2	4.3	7.8	4.8	7.6	4.2	7.9
Mercury	M	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2455	mg/kg	0.50	11	8.7	18	12	7.0	3.9	9.5
Lead	M	2455	mg/kg	0.50	6.0	5.3	7.3	4.1	9.6	5.3	5.7
Selenium	M	2455	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2455	mg/kg	0.50	20	17	29	18	21	10	22
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	M	2625	%	0.20						0.77	0.97
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.25	< 0.10	0.41
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	0.16
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	0.46	0.10	1.0
Pyrene	M	2800	mg/kg	0.10	< 0.10	0.15	< 0.10	< 0.10	0.39	< 0.10	0.95
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.40
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.34
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.26	< 0.10	0.46
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.24	< 0.10	0.31
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.17	< 0.10	0.25
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.13
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.23	< 0.10	0.29

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners		**Chemtest Job No.:**			22-14360	22-14360	22-14360	22-14360	22-14360	22-14360	22-14360
Quotation No.:		**Chemtest Sample ID.:**			1412766	1412767	1412768	1412769	1412770	1412771	1412772
Order No.: 46934		Client Sample Ref.:			TP31	TP32	TP32	TP33	PIT A	PIT A	PIT B
		Sample Type:			SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):			0.1	0.1	0.4	0.6	0.1	0.8	1.5
		Date Sampled:			12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
		Asbestos Lab:			DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.7	< 2.0	4.7
Demeton-O	N	2820	mg/kg	0.20							
Phorate	N	2820	mg/kg	0.20							
Demeton-S	N	2820	mg/kg	0.20							
Disulfoton	N	2820	mg/kg	0.20							
Fenthion	N	2820	mg/kg	0.20							
Trichloronate	N	2820	mg/kg	0.20							
Prothiofos	N	2820	mg/kg	0.20							
Fensulphothion	N	2820	mg/kg	0.20							
Sulprofos	N	2820	mg/kg	0.20							
Azinphos-Methyl	N	2820	mg/kg	0.20							
Coumaphos	N	2820	mg/kg	0.20							
Alpha-HCH	N	2840	mg/kg	0.20							
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20							
Beta-HCH	N	2840	mg/kg	0.20							
Delta-HCH	N	2840	mg/kg	0.20							
Heptachlor	N	2840	mg/kg	0.20							
Aldrin	N	2840	mg/kg	0.20							
Heptachlor Epoxide	N	2840	mg/kg	0.20							
Gamma-Chlordane	N	2840	mg/kg	0.20							
Alpha-Chlordane	N	2840	mg/kg	0.20							
Endosulfan I	N	2840	mg/kg	0.20							
4,4-DDE	N	2840	mg/kg	0.20							
Dieldrin	N	2840	mg/kg	0.20							
Endrin	N	2840	mg/kg	0.20							
4,4-DDD	N	2840	mg/kg	0.20							
Endosulfan II	N	2840	mg/kg	0.20							
Endrin Aldehyde	N	2840	mg/kg	0.20							
4,4-DDT	N	2840	mg/kg	0.20							
Endosulfan Sulphate	N	2840	mg/kg	0.20							
Methoxychlor	N	2840	mg/kg	0.20							
Endrin Ketone	N	2840	mg/kg	0.20							

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.:	22-16401-1
Initial Date of Issue:	20-May-2022
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Daniel Nowell Geo
Project	DN/AJK/46934 Lincs Gateway, Spalding

Quotation No.:		**Date Received:**	04-May-2022
Order No.:	46934	**Date Instructed:**	04-May-2022
No. of Samples:	3		
Turnaround (Wkdays):	15	**Results Due:**	24-May-2022
Date Approved:	19-May-2022	**Subcon Results Due:**	25-May-2022

Approved By:



Details: Stuart Henderson, Technical Manager

Results - Soil

Project: DN/AJK/46934 Lincs Gateway, Spalding

Client: Eastwood & Partners			**Chemtest Job No.:**		22-16401	22-16401	22-16401
Quotation No.:			**Chemtest Sample ID.:**		1421874	1421875	1421876
			Sample Location:		TP3	TP19	TP31
			Sample Type:		SOIL	SOIL	SOIL
			Top Depth (m):		0.30	0.10	0.10
			Date Sampled:		12-Apr-2022	12-Apr-2022	12-Apr-2022
Determinand	**Accred.**	**SOP**	**Units**	**LOD**			
Pendimethalin	S		mg/kg	0.01	< 0.02	< 0.02	0.02

Report Information

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<	"less than"
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Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at the indicated laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container
E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

2531

ANALYTICAL TEST REPORT

Contract no:	109316
Contract name:	Lincs Gateway, Spalding
Client reference:	-
Clients name:	Professional Soils Laboratory
Clients address:	5/7 Hexthorpe Road Doncaster DN4 0AR
Samples received:	16 May 2022
Analysis started:	16 May 2022
Analysis completed:	23 May 2022
Report issued:	23 May 2022

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing

Approved by:

Megan Harris

Senior Reporting Administrator

Chemtech Environmental Limited

SOILS

Lab number			109316-1	109316-2	109316-3	109316-4	109316-5	109316-6
Sample id			CP1	CP2	CP3	CP4	CP5	CP5
Depth (m)			12.50	17.40	5.60	3.00	7.00	16.50
Sample Type			D	D	D	D	D	D
Date sampled			-	-	-	-	-	-
Test	Method	Units						
pH	CE004 U	units	8.4	8.5	7.3	8.1	8.0	8.4
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	306	402	491	1122	1130	648
Sulphate (total)	CE062 U	mg/kg SO_4	924	1486	5877	2589	2190	1670

Chemtech Environmental Limited

SOILS

Lab number			109316-7	109316-8	109316-9	109316-10	109316-11	109316-12
Sample id			CP7	CP8	CP8	CP9	CP10	CP10
Depth (m)			7.50-7.80	3.00	17.20	4.25-4.70	7.00	7.70-8.20
Sample Type			D	D	D	D	D	D
Date sampled			-	-	-	-	-	-
Test	Method	Units						
pH	CE004 U	units	7.7	8.2	8.4	8.5	8.1	7.4
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	1656	788	421	344	885	2946
Sulphate (total)	CE062 U	mg/kg SO_4	4795	1609	1286	2206	2180	7393

Chemtech Environmental Limited

SOILS

Lab number			109316-13	109316-14
Sample id			CP11	CP12
Depth (m)			10.80	19.50
Sample Type			D	D
Date sampled			-	-
Test	Method	Units		
pH	CE004 U	units	9.1	8.2
Sulphate (2:1 water soluble)	CE061 U	mg/l SO_4	272	698
Sulphate (total)	CE062 U	mg/kg SO_4	1334	2081

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	U	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO_4
CE062	Sulphate (total)	Acid extraction, ICP-OES	Dry	U	100	mg/kg SO_4

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
109316-1	CP1	12.50	Y	All (NSD)
109316-2	CP2	17.40	Y	All (NSD)
109316-3	CP3	5.60	Y	All (NSD)
109316-4	CP4	3.00	Y	All (NSD)
109316-5	CP5	7.00	Y	All (NSD)
109316-6	CP5	16.50	Y	All (NSD)
109316-7	CP7	7.50-7.80	Y	All (NSD)
109316-8	CP8	3.00	Y	All (NSD)
109316-9	CP8	17.20	Y	All (NSD)
109316-10	CP9	4.25-4.70	Y	All (NSD)
109316-11	CP10	7.00	Y	All (NSD)
109316-12	CP10	7.70-8.20	Y	All (NSD)
109316-13	CP11	10.80	Y	All (NSD)
109316-14	CP12	19.50	Y	All (NSD)

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones, where applicable.

Eastwood&Partners
CONSULTING ENGINEERS

SITE: Lincs Gateway, Spalding	Job No. 46934	Date 26/04/2022
SUBJECT: Dibenz[a,h]anthracene Mean and Maximum Value Test for Granular Made Ground	Prepared DN	Checked AJK

Results	Sample	Log x = y
3.90	TP20 0.1 m	0.591
0.19	TP21 0.1 m	-0.721
0.53	TP22 0.1 m	-0.276
0.13	TP28 0.1 m	-0.886
0.10	Pit A 0.1 m	-1.000

Number of results : n =	5
Mean : X =	0.97
Standard deviation : s =	1.65
T value : t =	2.132

Corrected mean (95% confidence)

= X + t * s / n^0.5 = 2.54

Max value =	3.90
log xm = ym =	0.591
Number of results : N =	5
Mean y =	-0.458
Standard deviation of y : S =	0.648
T = (ym-ya) / S =	1.619
Tcrit (fom table A1.3) =	1.6

Result probably an outlier

Contaminant	Intended Land Use				
	Commercial/Industrial End Use (mg/kg)				
	Human Health	Phytoxicity			
		pH 5.0-5.5	pH 5.5-6.0	pH 6.0-6.5	pH >7.0
Arsenic	640	50			
Cadmium	190	3			
Chromium (III)	8600	400			
Chromium (VI)	33	-			
Lead	1100-6000	300			
Mercury	25.8	1			
Nickel	980	50	60	75	110
Selenium	12,000				
Copper	68,000	80	100	135	200
Zinc	730,000	200	200	200	300

Notes:

The assessment concentrations for arsenic, cadmium, chromium (III), chromium (VI), copper, nickel, mercury, selenium and zinc are taken from Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C., and Nathanail, J.F., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham. These are also all based on a sandy loam soil and 6% soil organic matter.

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land; Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010.

The threshold value is not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. The modified mean value should instead be compared with the threshold value.

The assessment values for phytotoxicity are levels at which plant growth is thought to be affected. These are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the '*The Code of Good Agricultural Practice for the Protection of Soil*', MAFF, 1998.

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

Organic Compounds	Intended Land Use Commercial (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	190 (76.4)[sol]	460 (183) [sol]	1100 (432) [sol]
Acenaphthene	84000 (57.0) [sol]	97000 (141) [sol]	100000
Acenaphthylene	83000 (86.1) [sol]	97000 (212) [sol]	100000
Fluorene	63000 (30.9) [sol]	68000	71000
Phenanthrene	22000	22000	23000
Anthracene	520000	540000	540000
Fluoranthene	23000	23000	23000
Pyrene	54000	54000	54000
Benzo(a)anthracene	170	170	180
Chrysene	350	350	350
Benzo(b)fluoranthene	44	44	45
Benzo(k)fluoranthene	1200	1200	1200
Benzo(a)pyrene	35	35	36
Dibenz(a,h)anthracene	3.5	3.6	3.6
Indeno(1,2,3-cd)pyrene	500	510	510
Benzo(g,h,i)perylene	3900	4000	4000
Phenol	760	1500	3200
Benzene	27	47	90
Toluene	56000 (869)[vap]	110000 (1920)[vap]	180000 (4360)[vap]
Ethylbenzene	5700 (518) [vap]	13000 (1220) [vap]	27000 (2840) [vap]
o-Xylene	6600 (478) [sol]	15000 (1120) [sol]	33000 (2620) [sol]
m-Xylene	6200 (625) [vap]	14000 (1470) [vap]	31000 (3460) [vap]
p-Xylene	5900 (576) [sol]	14000 (1350) [sol]	30000 (3170) [sol]

[sol] = S4ULs presented exceeds the solubility saturation limit, which is presented in brackets.

[vap] = S4ULs presented exceeds the vapour saturation limit, which is presented in brackets.

The assessment criteria for the sixteen polycyclic aromatic hydrocarbon (PAH) species covered under the USEPA test have been taken from Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C., and Nathanail, J.F., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham.. These are also all based on a sandy loam soil and 6% soil organic matter. This is also the case for phenol at 1% and 2.5% SOM. These are also all based on a sandy loam soil.

The assessment values for phenol (6% SOM) and the BTEX compounds are the Soil Guideline Values derived by DEFRA and Environment Agency using the '*Contaminated Land Exposure Assessment'* model. These are outlined in the Environment Agency's Science Report series SC050021.

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

TPH Fraction	Intended Land Use Commercial (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	3200 (304)[sol]	5900 (558)[sol]	12000 (1150)[sol]
Aliphatic EC >6-8	7800 (144)[sol]	17000 (322)[sol]	40000 (736)[sol]
Aliphatic EC >8-10	2000 (78)[sol]	4800 (190)[vap]	11000 (451)[vap]
Aliphatic EC >10-12	9700 (48)[sol]	23000 (118)[vap]	47000 (283)[vap]
Aliphatic EC >12-16	59000 (24)[sol]	82000 (59)[sol]	90000 (142)[sol]
Aliphatic EC >16-35	1,600,000	1,700,000	1,800,000
Aliphatic EC >35-44	1,600,000	1,700,000	1,800,000
Aromatic EC 5-7 (benzene)	26000 (1220)[sol]	46000 (2260)[sol]	86000 (4710)[sol]
Aromatic EC >7-8 (toluene)	56000 (869)[vap]	110000 (1920) [sol]	180000 (4360)[vap]
Aromatic EC>8-10	3500 (613)[vap]	8100 (1500)[vap]	17000 (3580)[vap]
Aromatic EC >10-12	16000 (364)[sol]	28000 (899)[sol]	34000 (2150)[sol]
Aromatic EC >12-16	36000 (169)[sol]	37000	38000
Aromatic EC >16-21	28000	28000	28000
Aromatic EC >21-35	28000	28000	28000
Aromatic EC >35-44	28000	28000	28000
Aliphatic + Aromatic EC >44-70	28000	28000	28000

[sol] = S4ULs presented exceeds the solubility saturation limit, which is presented in brackets.
[vap] = S4ULs presented exceeds the vapour saturation limit, which is presented in brackets.

The assessment criteria for each of the petroleum hydrocarbon fractions have been taken from Nathanail, C.P., McCaffrey, C., Gillett, A.G., Ogden, R.C., and Nathanail, J.F., 2015, 'The LQM/CIEH S4ULs for Human Health Risk Assessment', Land Quality Press, Nottingham.. These are also all based on a sandy loam soil.

Within the Environment Agency Science Report P5-080/TR3, Askari, K. & Pollard, S., 2005 *'The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils'* it is stated that the assessment values should not be considered individually; instead the potential additive effects should be calculated. This is achieved by calculating an individual Hazard Quotient (HQ) for each fraction. The HQ is the proportion of the assessment concentration represented by the recorded concentration. The HQs are then added together to form a Hazard Index (HI) and where this exceeds unity a potential significant risk to human health may exist.

Where only a TPH screen is undertaken, the assessment value used should be taken as the most onerous value given for individual carbon bands, as described above. This should be the assessment for Aliphatic band EC>8-10, assuming a SOM value of 1%. The assessment value should therefore be taken as 2,100 mg/kg.

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Prepared	DN	Checked	AJK	Date	28/04/2022	Job No	46934

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LINCS GATEWAY, SPALDING

ALCOR PROPERTIES LIMITED

ASSESSMENT CRITERIA – COMMERCIAL / INDUSTRIAL

Appendix 6

Gas Monitoring Results

Table of Atmospheric Pressures

Monitoring Date 05.05.2022 RG	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.6	20.6	0.0	0	1	1021	*(p)* -10.0, *(s)* -0.3	1.00	12.14
CP2	0.0	2.0	19.2	0.0	0	1	1021	0.0	1.10	4.80
CP3	0.0	2.3	19.1	0.0	0	0	1021	0.0	1.30	4.88
CP4	0.0	0.3	20.9	0.0	0	0	1021	0.0	0.90	10.47
CP5	0.0	1.3	18.3	0.0	0	0	1021	0.0	1.61	3.68
CP6	2.0	1.9	19.1	45.7	0	0	1022	*(p)* -5.0, *(s)* -0.7*	1.10	5.00
CP7	0.0	0.6	20.7	0.0	0	0	1022	*(p)* -4.5, *(s)* 0.0	1.05	4.95
CP8	0.0	0.9	19.0	0.0	0	0	1021	0.0	1.40	5.30
CP9	0.0	1.8	16.3	0.0	0	0	1021	0.0	1.33	4.15
CP10	0.0	0.4	20.4	0.0	0	0	1020	0.0	0.98	11.53
CP11	0.0	1.7	16.8	0.0	0	0	1019	0.0	1.66	4.80
CP12	0.0	0.6	20.4	0.0	0	0	1018	0.0	1.12	9.52
WS2	0.0	2.2	18.5	0.0	0	0	1018	0.0	-	-

(p) = Peak – flow sometimes peaked negative on opening valve before settling, (s) = Steady
**CP6 made an audible 'inhale' after monitor tube removed from bung.*

Monitoring Date 19.05.2022 DJ	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.7	20.0	0.0	0	0	1020	0.0	1.07	12.22
CP2	0.0	0.8	19.7	0.0	0	0	1020	0.0	1.25	4.79
CP3	0.0	2.3	18.5	0.0	0	0	1020	0.0	1.50	4.94
CP4	0.0	0.0	20.6	0.0	0	0	1020	0.0	1.13	10.52
CP5	0.0	2.6	16.4	0.0	0	0	1020	0.0	2.04	3.78
CP6	0.0	0.9	19.2	0.0	0	0	1020	0.0	1.42	5.06
CP7	0.0	1.1	19.9	0.0	0	0	1020	0.0	1.18	4.97
CP8	0.0	0.7	19.8	0.0	0	0	1020	0.0	1.50	5.07
CP9	0.0	5.3	12.2	0.0	0	0	1020	0.0	1.52	4.13
CP10	0.0	0.6	20.2	0.0	0	0	1020	0.0	1.14	10.41
CP11	0.0	3.3	16.7	0.0	0	0	1020	0.0	2.00	4.87
CP12	0.0	0.5	20.1	0.0	0	0	1020	0.0	1.49	9.47

Monitoring Date 27.06.2022 DJ	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.0	20.5	0.0	0	0	1015	0.0	1.40	11.77
CP2	0.0	4.9	17.0	0.0	0	0	1015	0.0	1.55	4.72
CP3	0.0	0.6	20.1	0.0	0	0	1015	0.0	1.77	4.91
CP4	0.0	0.1	20.5	0.0	0	0	1015	0.0	1.38	10.58
CP5	0.0	3.8	17.3	0.0	0	0	1015	0.0	2.73	3.62
CP6	0.0	3.0	18.8	0.0	0	0	1015	0.0	1.63	5.03
CP7	0.0	1.8	19.4	0.0	0	0	1015	0.6	1.28	4.95
CP8	0.0	0.5	20.1	0.0	0	0	1015	0.0	1.75	5.02
CP9	0.0	8.0	7.4	0.0	0	0	1015	0.0	1.53	4.16
CP10	0.0	0.5	20.1	0.0	0	0	1015	0.0	1.51	11.67
CP11	0.0	4.8	17.5	0.0	0	0	1015	0.0	2.58	4.83
CP12	0.0	0.1	20.2	0.0	0	0	1015	0.0	2.22	9.47

Monitoring Date 13.01.2022 RG	CH_4 %	CO_2 %	O_2 %	LEL	H_2S	CO	Atmos P. (mb)	Flow (l/hr)	Water Level (m bgl)	Base of Pipe (m bgl)
CP1	0.0	0.3	20.6	0.0	0	0	1018	0.0	1.46	12.00
CP2	0.0	3.4	18.3	0.0	0	0	1018	0.0	1.65	4.59
CP3	0.0	0.2	20.7	0.0	0	0	1020	0.0	2.30	4.80
CP4	0.0	0.1	20.8	0.0	0	0	1020	0.0	1.28	10.29
CP5	0.0	2.5	18.7	0.0	0	0	1020	0.0	2.64	3.59
CP6	0.0	4.3	17.6	0.0	0	0	1020	0.0	1.65	4.97
CP7	0.0	1.9	19.2	0.0	0	0	1020	0.0	1.54	4.89
CP8	0.0	1.8	19.0	0.0	0	0	1020	0.0	1.87	4.98
CP9	0.0	9.5	5.7	0.0	0	0	1020	0.0	1.55	4.13
CP10	0.0	0.6	20.1	0.0	0	0	1019	0.0	1.60	11.65
CP11	0.0	4.1	18.3	0.0	0	0	1019	0.0	2.77	4.76
CP12	0.0	0.2	20.5	0.0	0	0	1019	0.0	2.41	9.27

Eastwood & Partners CONSULTING ENGINEERS	**LINCS GATEWAY, SPALDING** **ALCAN CONSTRUCTION LTD** **GAS & GROUNDWATER MONITORING RESULTS**	**JOB NO.** **DATE**	46934 May 2022 – TBC	Concentration equivalent to CS2 Concentration equivalent to CS3

Date	Atmospheric Pressure (mb)	Atmospheric Trend	Relative Humidity (%)	Temp (ºC)	Weather
07.05.22	1027	-	65	17	Cloud/sun
08.05.22	1029	Rising	61	19	Cloud/sun
09.05.22	1026	Falling	61	19	Cloud/sun
10.05.22	1024	Falling	60	21	Cloud/sun
11.05.22	1021	Falling	55	22	Sunny
12.05.22	1020	Falling	54	22	Cloud/sun
13.05.22	1016	Falling	52	24	Cloud/sun
14.05.22	1021	Rising	58	21	Sunny
15.05.22	1017	Falling	72	17	Cloud/rain
16.05.22	1013	Falling	72	17	Cloudy
17.05.22	1019	Rising	62	22	Cloud/sun
18.05.22	1017	Falling	64	21	Cloud/rain
19.05.22	1020	Rising	62	21	Cloud/sun
20.05.22	1016	Falling	63	20	Cloud/sun
21.05.22	1020	Rising	60	19	Cloud/sun
22.05.22	1016	Falling	64	20	Cloudy
23.05.22	1003	Falling	72	17	Cloud/sun/rain
24.05.22	1005	Rising	66	17	Cloudy
25.05.22	1004	Falling	67	18	Cloud/sun
26.05.22	1019	Rising	63	18	Cloud/sun
27.05.22	1027	Rising	62	19	Cloud/sun
28.05.22	1026	Falling	61	15	Cloud/sun
29.05.22	1020	Falling	71	11	Cloudy
30.05.22	1011	Falling	71	13	Cloud/sun/rain
31.05.22	1011	Steady	64	16	Cloudy
01.06.22	1015	Rising	69	17	Cloud/rain
02.06.22	1023	Rising	70	18	Cloud/rain
03.06.22	1020	Falling	67	18	Cloud/rain
04.06.22	1022	Rising	69	15	Cloud/sun
05.06.22	1018	Falling	74	15	Cloud/rain
06.06.22	1015	Falling	73	16	Cloudy
07.06.22	1017	Rising	66	18	Cloud/sun
08.06.22	1020	Rising	64	20	Cloud/sun
09.06.22	1017	Falling	64	21	Cloud/sun
10.06.22	1010	Falling	65	21	Cloud/sun
11.06.22	1020	Rising	58	21	Sunny
12.06.22	1022	Rising	61	20	Cloud/sun
13.06.22	1023	Rising	63	19	Cloud/sun
14.06.22	1021	Falling	60	21	Cloud/sun
15.06.22	1017	Falling	65	20	Cloud/sun
16.06.22	1021	Rising	68	20	Cloud/sun
17.06.22	1023	Rising	63	21	Cloud/sun
18.06.22	1019	Falling	73	18	Cloud/rain
19.06.22	1016	Falling	73	15	Cloud/rain
20.06.22	1022	Rising	62	19	Cloud/sun
21.06.22	1009	Falling	65	21	Cloud/sun

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LINCS GATEWAY, SPALDING

ATMOSPHERIC CONDITIONS

22.06.22	1001	Falling	68	19	Cloud/sun
23.06.22	1009	Rising	65	18	Cloud/sun
24.06.22	1009	Steady	67	19	Cloud/sun
25.06.22	1007	Falling	47	22	Cloud/sun
26.06.22	1010	Rising	49	21	Sunny
27.06.22	1015	Rising	50	22	Sunny
28.06.22	1014	Falling	55	21	Cloud/sun
29.06.22	1014	Steady	56	22	Cloud/sun
30.06.22	1007	Falling	62	22	Cloud/sun/rain
01.07.22	1012	Rising	64	21	Cloud/sun/rain
02.07.22	1017	Rising	64	20	Cloud/sun
03.07.22	1019	Rising	61	20	Cloud/sun
04.07.22	1022	Rising	59	20	Cloud/sun
05.07.22	1026	Rising	60	21	Cloud/sun
06.07.22	1029	Rising	61	21	Cloudy
07.07.22	1029	Steady	63	22	Cloud/sun
08.07.22	1030	Rising	62	23	Cloud/sun
09.07.22	1030	Steady	54	21	Cloud/sun
10.07.22	1027	Falling	51	25	Sun
11.07.22	1023	Falling	46	29	Sun
12.07.22	1022	Falling	46	29	Cloud/sun
13.07.22	1024	Rising	46	24	Sunny
14.07.22	1023	Falling	46	23	Cloud/sun
15.07.22	1023	Steady	50	24	Cloud/sun
16.07.22	1027	Rising	50	23	Cloud/sun
17.07.22	1027	Steady	39	30	Sunny
18.07.22	1021	Falling	34	35	Sunny
19.07.22	1016	Falling	33	35	Sunny
20.07.22	1011	Falling	54	27	Cloud/sun/rain
21.07.22	1018	Rising	63	22	Cloud/sun
22.07.22	1024	Rising	64	22	Cloudy

Taken from BBC Weather website and weatheronline.co.uk
Highlighted rows denote gas monitoring visits.