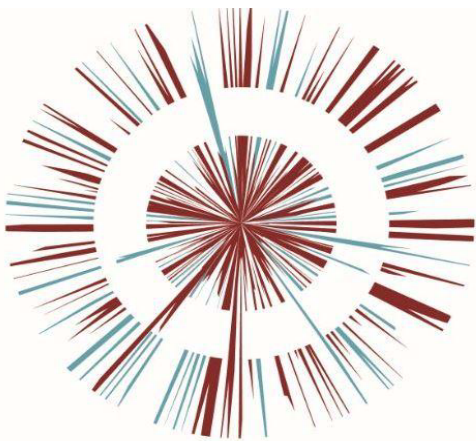




OMEGA ZONE 8, ST HELENS

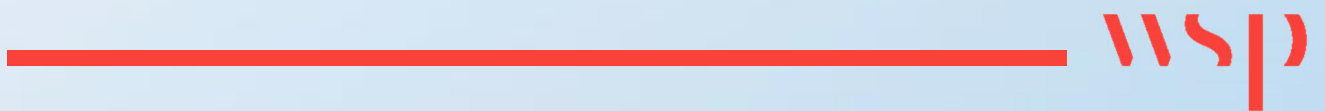
Omega St Helens Ltd / T. J. Morris Limited



Document Title
ES Vol. 2 Appendix 1.1
EIA Scoping Report
Document No. OPP DOC.11.18d

Appendix B

CONTAMINATED LAND PHASE I
DESK STUDY





Omega Warrington Limited (OWL)

OMEGA ZONE 8 - WARRINGTON

Phase 1 Geo-Environmental Assessment





Omega Warrington Limited (**OWL**)

OMEGA ZONE 8 - WARRINGTON

Phase 1 Geo-Environmental Assessment

PHASE 1 GEO-ENVIRONMENTAL ASSESSMENT (V1.0) CONFIDENTIAL

PROJECT NO. 11191042-SI1

OUR REF. NO. 11158 (002)

DATE: MAY 2019

Omega Warrington **Limited (OWL)**

OMEGA ZONE 8 - WARRINGTON

Phase 1 Geo-Environmental Assessment

WSP

8 First Street
Manchester
M15 4GU

WSP.com

QUALITY CONTROL

Issue/revision	First issue	Second Issue
Remarks	Issue 1	Issue 2 – updated site boundary
Date	02 May 2019	24 May 2019
Prepared by	Emily Lyons	Emily Lyons / Jess Kinchington
Signature		
Checked by	Paula Gallagher	Paula Gallagher
Signature		
Authorised by	Andy Moore	Andy Moore
Signature		
Project number	11191042-SI1	11191042-SI1
Report number	11158	11158(002)

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UXO DESK STUDY REPORT

1 INTRODUCTION

1.1 TERMS OF REFERENCE

WSP UK Ltd was instructed by Omega Warrington Limited (OWL) to undertake a desk-based contaminated land assessment of land to the west of Skyline Drive (referred to as Omega Zone 8). Warrington (the site).

The report is required to support a planning application for the construction of several warehouse sheds, associated with the adjacent Omega South Business Park. The work was undertaken in accordance with our proposal dated 22 June 2018.

The site location and current layout are presented in Drawings 1 and 2 respectively within Appendix A. It should be noted that the site boundary has been extended to the west since the first issue of this report (ref: 11191042-SI1/11158, May 2019); the additional portion of land is indicated on Drawing 2 in Appendix A.

1.2 CLIENT AIMS

Based on discussions and correspondence to date, we understand that OWL proposes to submit a planning application for the development of several warehouse sheds and associated infrastructure including offices, car parks and connecting roads. WSP understand development plans have not been finalised.

We understand that OWL requires this report to:

- Provide information on potential ground contamination.
- Identify likely constraints associated with ground conditions that may impact the proposed development.
- Assess potential risks and liabilities associated with contamination.
- Present information to support the forthcoming planning application.

1.3 SOURCES OF INFORMATION

The following relevant sources of information were used in the production of this report. Information from these sources relating to the underlying ground conditions has also been included in Sections 2 to 5 of this report, where appropriate:

- Site walkover completed 20 December 2018;
- Landmark 'Envirocheck Report' reference 174134158_1_1;
- British Geological Survey (BGS) 1:50,000 scale interactive map viewer accessed on 24 August 2018;
- BGS Borehole log reference SJ59SE2547;
- UXO Desk Study Report undertaken by Zetica (dated 11 September 2018, Reference P7831-18-R1-A);
- Email correspondence with Zetica (dated 13 May 2019);
- Coal Authority Report (dated 03 January 2019, reference 51001980112001);
- Coal Authority Report (parcel of land in the west) (dated 13 May 2019, reference 51002108134001);
- Coal Authority interactive map viewer accessed on 24 August 2018; and,

- Information on surface water quality / catchment details from <http://environment.data.gov.uk/catchment-planning/WaterBody/GB112069060990> accessed on 28 August 2018.

1.4 CONFIDENTIALITY AND LIMITATIONS

This report is addressed to and may be relied upon by the following:

Omega Warrington Limited

Condor House

St Paul's Churchyard

London

United Kingdom

EC4M 8AL

This assessment has been prepared for the sole use of the above-named party. This report shall not be relied upon or transferred to any other parties without the express written authorisation of WSP. No responsibility will be accepted where this report is used in its entirety or in part, by any other party. Information provided by others is taken in good faith as being accurate. WSP cannot and will not accept liability for any deficiencies in third party information. WSP general limitations are presented in Appendix B.

2 SITE DESCRIPTION

2.1 SITE DESCRIPTION AND CURRENT USE

Site location and current layout plans are shown in Drawings 1 and 2 with the redline boundary shown on OS mapping in Drawing 3. A selection of site photographs is presented as Appendix C.

Table 1 summarises the site details gathered during the desk study and site walkover. It should be noted the site walkover was completed in December 2018 prior to extension of the site boundary to the west; therefore, descriptions relating to the western portion have been generated from aerial imagery.

Table 1 – Summary of site details

Detail	Comment
Name and Address of Site	Land to west of Lingley Mere Business Park, Lingley Green Avenue, Warrington WA5 3UZ
National Grid reference	355224, 390505
Site Description and Current Use	<p>The site is bounded to the north by the M62 motorway and to the east by the Omega Business Park and the Lingley Mere Business Park with associated warehouses. The entire site boundary is tree lined, with ditches in places.</p> <p>The site is currently used for agricultural purposes comprising a number of open fields separated by wire / wooden fences observed to be in variable condition. Machine tracks associated with farm use are present in the southwest. Localised areas of mature trees are present in the southwest (approximately 2.3ha) and centre (2.4ha).</p> <p>A stream enters the site from the west flows in a southerly direction in the southwest before exiting site in the south and flowing in an easterly direction adjacent to the southern site boundary. In addition there are a number of ponds (17) and surface water drains (4) on site. The surface water features are indicated on Drawing 2 in Appendix A. Ponds measure between 20m-96m in length, with the largest pond located in the south of the site. The most northerly drain, has been culverted beneath the M62 and resurfaces at the sites northern boundary, transecting the site in a NW-SE direction. Surface water drains also run through the centre of the site.</p> <p>To the north of the site, an embankment is present, approximately 3 – 4m in height associated with the M62 motorway.. Overhead powerlines enter the site from the north and trend through the area in a southerly direction.</p> <p>A small pile of rubble comprising brick and concrete was observed in the south. No visual or olfactory evidence of contamination was encountered.</p>
Area	Approximately 65.8Ha.
Site Setting and Surrounding Area	The site is located to the west and southwest of Omega Business Park, Warrington and northwest of the Mersey Valley Golf & Country Club. The M62 motorway runs east-west and is immediately north with agricultural fields beyond. Distribution warehouses and residential housing are present to the east and south of the site respectively.

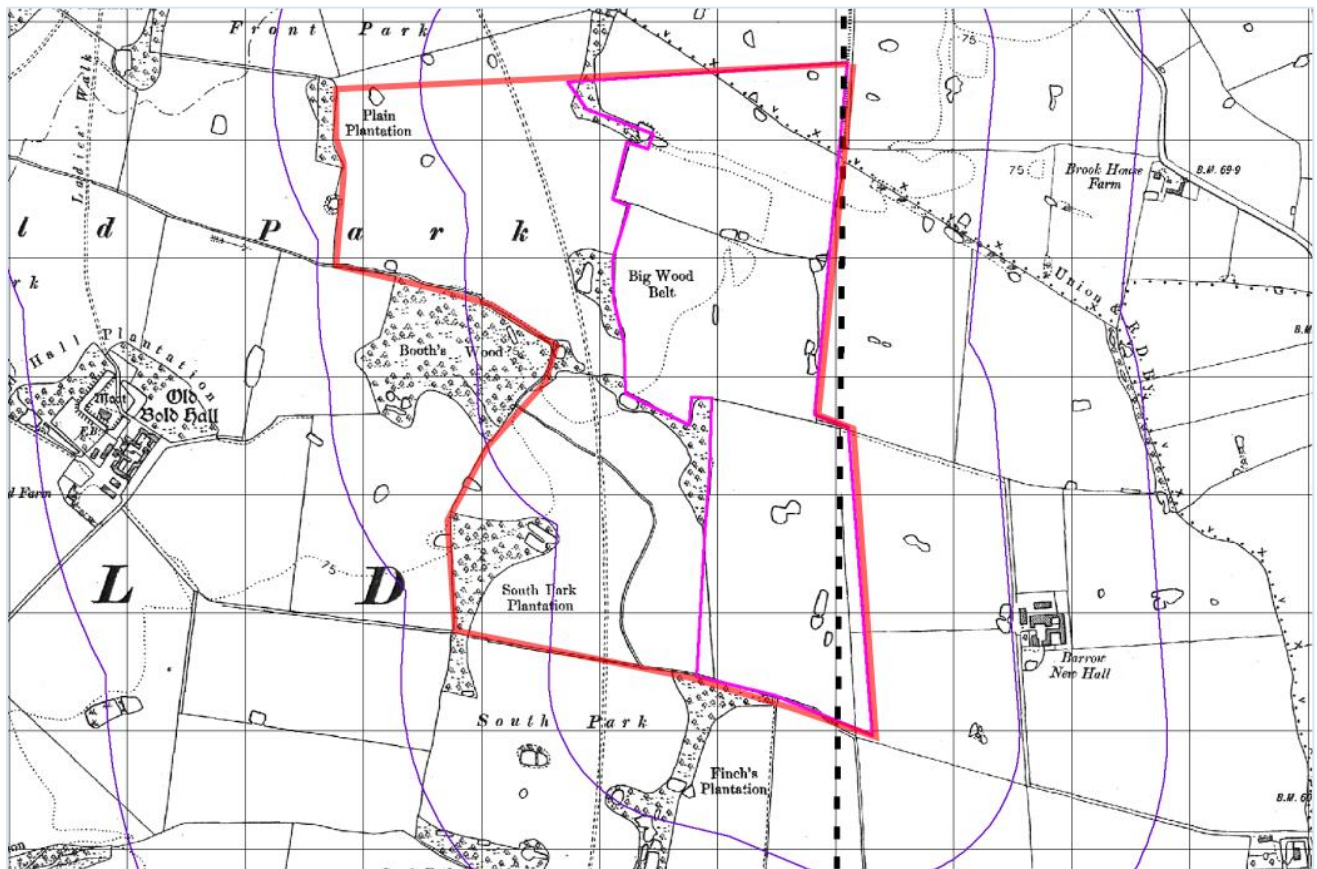
Topography and Ground Cover	The site is relatively flat at approximately 25m AOD and currently used for growing crops.
Flooding	There is a high risk of flooding from surface water at the centre of the site, according to site sensitivity data (Appendix D).

3 HISTORICAL LAND USES

3.1 SITE HISTORY

A study of historical Ordnance Survey (OS) maps provided as part of the Envirocheck Report (Appendix D) was undertaken to identify potentially significant contaminative former land uses on the site. It should be noted the site boundary provided on the OS maps corresponds to the boundary covered by the first version of this report, shown in pink on the 1908 extract below, with the approximate revised current development site boundary shown on red.

Extract 1 – Envirocheck boundary and Development Boundary



The earliest available maps from 1849 indicate that the site comprised open fields, potentially used for agriculture with a number of ponds located across the site. At this time the onsite stream is shown to be present in the southwest in addition to a plantation which both remain until present day. A track trends through the centre of the site in a north-south direction. Mapping history to 2016 indicate the site has remained undeveloped with no buildings shown. Pylons appear in the north east of the site in 1990.

Adjacent land to the east and north east was developed as Burtonwood Airfield by circa 1956. The historical mapping suggests that there have been no buildings or structures associated with the airfield positioned within the site area. The airfield was disused from circa 1978 with the runway, taxiways and associated buildings in the southern part of the airfield (in close proximity to the site)

demolished by approximately 1990. The areas to the northeast and southeast of the site were subsequently redeveloped as Omega Business Park and Lingley Mere Business Park respectively.

3.2 SURROUNDING AREA HISTORY

Table 2 summarises the potentially contaminative or sensitive off-site historical uses (within 500m) shown on the available OS mapping or as indicated by the Envirocheck Report.

Table 2 – Summary of historical uses within a 500m radius of the site

Dates present	Use	Distance/ Bearing
1849	Farm (Johnsons Plantation).	Onsite
1849 - Present	Farm (Finch's Plantation).	Immediately south
1849 - Present	Farm (Plain Plantation).	Immediately west
1849 - Present	Farm (South Park Plantation).	320m south
1849 - Present	Farm (Park Farm).	500m south
1908 - 1929	Potentially Infilled Land (water).	Between 50m and 100m to northeast
1956 – 1978 (disused), southern area demolished by 1990, northern area demolished by 2018	Burtonwood Airfield – Runways, taxiways, buildings, stores, hangers.	Immediately east and up to greater than 500m
1970-1975	Refuse/slag heap.	250m southeast
No dates provided (indicated on Envirocheck Report)– possibly related to refuse/slag heap above	Landfill site.	Located outside the site but immediately adjacent to the southeast corner of the site
1991-2007	Disposal of Radioactive Substances – probably at a lab on Lingley Mere Business Park	250m southeast
1973 - ?	Water abstraction.	250m south
1976 - present	M62 motorway.	Immediately north
1994 - ?	Pumping station on sewage network – discharge consent of freshwater stream/river.	250m southeast
2003	Substantial Pollution Incident Registered – agricultural materials & waste.	Immediate north
1999 - present	Construction Business Parks – warehouses, distribution centres	Immediate southeast and 150m northeast

4 REGULATORY INFORMATION

4.1 REGULATORY DATABASE

Reference was made to the Landmark Information Group data provision service. This includes information and data collated from several organisations, including the Environment Agency (EA), the Local Authority, the British Geological Survey (BGS), and Department for Environment, Food & Rural Affairs (DEFRA), Health & Safety Executive (HSE) and the Coal Authority. The Envirocheck Report is provided in Appendix D.

None of the following were identified on or within 500m of the site boundary:

- Contaminated Land register entries and notifications;
- Authorised industrial processes (IPC / IPPC / LAPPC);
- Fuel stations;
- Enforcements, prohibitions or prosecutions;
- Hazardous substance planning consents; or
- Control of Major Accident Hazard (COMAH) sites.

4.2 RADON

The site is located within a lower probability radon area where less than 1% of properties are at or above the action level. As such, no radon protection measures are required for new dwellings or extensions.

4.3 UNEXPLODED ORDNANCE

Due to the site being located adjacent to a former airbase, a UXO Desk Study has been conducted by Zetica and presented as Appendix G to this report.

Whilst the site boundary provided in the report corresponds to only part of the site, email correspondence from Zetica (dated 13 May 2019, included in Appendix G) confirms the conclusions of the report remains valid for the additional site area, i.e. the risk from unexploded ordnance (UXO) at the site is low.

4.4 LANDFILL AND WASTE MANAGEMENT ACTIVITY

Onsite there are two possible areas of infilled land relating to former ponds, as indicated by OS mapping; one in the north along the most northern surface water drain and the other to the east along the site boundary with plot 7E/F of Omega South.

The Envirocheck Report indicates a number of potentially infilled land (water) records within 250m of the site boundary, located to the northeast. The records relate to unknown filled ground (pond marsh, river stream etc) and were mapped between 1929 and 1954.

One historical landfill is indicated to be present within 500m of the site, located adjacent to the southeast. The licence holder is the Royal Air Force and the licence is indicated to be cancelled. No other pertinent information has been provided. No waste treatment or disposal sites are located within 500m of the site boundary.

4.5 SENSITIVE LAND USES

The site does not lie within 500m of the following: Site of Special Scientific Interest (SSSI), Marine Nature Reserve, National Nature Reserve, Ramsar Site, Special Area of Conservation, Special Protection Area or World Heritage Site.

5 ENVIRONMENTAL SETTING

5.1 GEOLOGY

The published geological maps indicate the presence of Glacial Till across the whole site and immediate surrounding area. Till is an unsorted glacial sediment comprised of clay and boulders of intermediate size. The solid geology is shown to be undifferentiated Triassic rocks comprising interbedded sandstone and conglomerates. There are two faults within the site boundaries trending approximately north-south. One skims the edge of the western boundary, whilst the other, known as the Roaring Meg Fault (downthrown to the west) transects the site.

There is one BGS borehole (SJ59SE2547 - Appendix E) located immediately adjacent to the northern site boundary and the borehole log has been consulted to confirm the published geology. The borehole recorded Made Ground associated with the M62 motorway construction to 1.9m below ground level (bgl) over Glacial Till (stiff sandy gravelly clay with subangular fine to coarse of mudstone, coal and sandstone) with the uppermost section possible embankment fill, to 8m bgl. The sandstone bedrock was not reached by this borehole.

5.1.1 PREVIOUS INVESTIGATIONS

Several previous intrusive investigations have been undertaken within the wider Omega North and Omega South Business Park areas, which can be viewed via the Warrington Borough Council planning portal. Our review of previous ground investigations indicates that exploratory holes have not been undertaken within the proposed Omega Zone 8 site boundary.

Excerpts of the previous intrusive investigation of the adjacent Omega South site (Geotechnics 2014 Report number 70037840/10884) are included in Appendix F. A borehole location plan and logs for the nearest boreholes to Omega Zone 8 (boreholes A01, A07, F01 and F05, to the east of Omega Zone 8) are presented in Appendix F and show a general sequence of a thin veneer of topsoil overlying clay, with sandstone bedrock proven at depths of 7.50m below ground level (bgl) to deeper than 8.80m bgl.

5.2 COAL AUTHORITY COAL MINING REPORT

The Envirocheck Report indicates the site is within an area which may be affected by coal mining activity. However, the site is not within a Development High Risk Area in relation to coal mining.

Two Coal Authority Coal Mining Reports have been obtained for the site for the eastern and western portions of the site (presented in Appendix E). The reports state the site is within an area that could be affected by underground mining in seven seams of coal at 630m to 960m depth and last worked in 1984. The Coal Authority considers any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

A damage notice or claim for alleged subsidence damage was made in July 2002 for a parcel of land in the northeast, part of a wider claim for land associated with a farm located to the north. However, the claim was rejected. There are a further two claims within 50m of the site boundary, also located in the north, however the Coal Authority states the claims do not match the property address.

5.3 HYDROGEOLOGY

HYDROGEOLOGICAL CLASSIFICATION

Table 3 below provides a summary of the hydrological features within 500m of the site.

Table 3 – Hydrogeological features within 500m of the site

Hydrogeological Aspect	Details
Geology	The bedrock geology (undifferentiated Triassic rocks) is classified by the EA as a Principal aquifer which is overlain by the secondary undifferentiated aquifer in the superficial drift (Glacial Till).
Groundwater Protection Zones (SPZ)	The site is located within a Zone 3 Total Catchment source protection zone.
Groundwater abstractions	There is one groundwater abstraction within 250m of the site located 240m south. The abstraction is operated by North West Water and used for public water supply.

GROUNDWATER LEVELS

The ground investigation undertaken within Plot 7F of Omega South provides groundwater depths encountered during borehole drilling and post groundwater monitoring visits indicates groundwater was struck at depths ranging 0.4-3.5m bgl. Later monitoring visits recorded groundwater levels ranging from 0.99-3.78m bgl. However, it was considered that the groundwater monitoring data obtained was not indicative of a clearly defined groundwater table on the site, with the levels more likely indicative of seepages from within the Made Ground and granular layers within the Glacial Till.

The closest BGS borehole (SJ59SE2547 - Appendix E) did not strike water during investigation in 2006.

It is likely that there are localised perched water bodies within the Glacial Till.

5.4 HYDROLOGY

SURFACE WATER FEATURES

Table 4 provides a summary of the notable surface water features within 500m of the site.

Table 4 – Hydrological features within 500m of the site

Surface Water Feature	Distance (Approximate)	Flow Direction
Drains	Onsite	North-south trending drains flow south. East-west trending drains flow east.
Stream	Onsite and immediately south	Southeast – flows into Whittle Brook
Surface water abstractions	No surface water abstractions are present within 2km of the site.	

EA River Basins
Management Plan

The site is located within the Sankey catchment as part of the EA defined river basin management plans. The ecological water body classification is moderate, chemical water body classification is good with an overall classification of moderate.

6 CONCEPTUAL SITE MODEL

6.1 INTRODUCTION

Plausible source-pathway-receptor contaminant linkages have been refined in line with industry good practice (principally CLR11 and R&D66).

The potential risks from contamination within soil and groundwater are assessed according to the environmental setting/ground model, likely presence of potential sources of contamination and the proposed use of the site.

The source-pathway-receptor model forms the basis of the risk assessment; potential risks are only considered to exist if there is a credible source (e.g. a chemical substance capable of causing harm); a pathway for migration of the source to a receptor; and a sensitive receptor that could be affected (e.g. nearby river or site user). A source-pathway-receptor contaminant linkage assessment is termed a conceptual site model (CSM). A preliminary CSM is produced prior to intrusive ground investigation and is refined following collection of site-specific data (if appropriate).

6.2 PRELIMINARY GROUND MODEL

There is the potential for deposits of Made Ground to be present beneath surface coverings (topsoil), associated with infilling of former ponds located in the north and east. A historical landfill was present adjacent to the site in the southeast (unknown deposits), remnant from 1970 operations, present beneath surface coverings (topsoil).

A significant thickness of low permeability cohesive Glacial Till (>6m) is present, which will likely offer protection to the underlying the Principal aquifer (Triassic Sandstone) from any potential surface contamination that may be present.

There is likely to be limited migration of shallow water due to the presence of the low permeability deposits which will in turn limit migration of any potential contaminants present.

Potentially infilled ponds may pose a risk to surface waters, as high rainfall periods could release contaminants from the made ground fill to the ground surface as flood water.

6.3 POTENTIAL CONTAMINATION / SOURCES

No obvious primary sources of contamination (e.g. tanks) have been identified on or in the immediate vicinity of the site. However, there is the potential for contamination associated with any Made Ground materials (e.g. infilled ponds) and the historical landfill site located adjacent to the southeast.

Table 5 summarises the potential on-site contamination sources identified:

Table 5 – Potential contamination / sources

Description	Potential Contaminants in Soil and Groundwater
Contamination, asbestos, ground gases associated with Made Ground materials – e.g. in infilled ponds	Various including asbestos, agricultural waste (e.g. used tyres, empty pesticide containers) etc

Description	Potential Contaminants in Soil and Groundwater
Contamination, asbestos, ground gases associated with historical landfill operations off-site to the south	Unknown

6.4 POTENTIAL RECEPTORS

In the context of the proposed land use, the following receptors of soil and/or groundwater impact have been identified:

Human Health

- Construction workers during redevelopment
- Future maintenance workers if working below ground / in confined spaces

It is considered that future site users are unlikely to constitute potentially viable receptors for the proposed development as the likelihood of significant contamination is low and the proposed site use (i.e. warehouse sheds on hardstanding) will likely remove any potential exposure pathways.

Controlled Waters

The main controlled waters receptors are listed below.

- Shallow groundwater beneath the site
- Secondary undifferentiated superficial aquifer and principal bedrock aquifer below site
- Several unnamed drains onsite and along site boundaries
- Unnamed stream (tributary of Whittle Brook) immediate south of the site

Other

- Below ground infrastructure and services – e.g. plastic pipes, buried concrete

6.5 POTENTIAL PATHWAYS

The potential pathways via which sources and receptors could be linked are considered to be:

- Direct contact
- Inhalation of dust
- Migration of gases/vapours through shallow soils, followed by accumulation and Inhalation
- Migration of shallow groundwater to wider groundwater/surface water environment

6.6 POTENTIALLY COMPLETE CONTAMINANT LINKAGES

Given the historical uses of the site, the likelihood of gross and / or widespread contamination or hazardous ground gases / vapours being present is low.

Infilled ponds are scarce and small in size. In the event that Made Ground has been deposited to infill ponds, the potential for ground gas exists but migration is expected to be limited due to the presence of low permeability clays around and beneath them.

If contamination is present, risks to construction workers would likely be adequately mitigated by appropriate health and safety practices – e.g. use of gloves, washing hands before eating, damping down.

The potential for exposure of future maintenance workers to unacceptable risks from ground contamination or ground gases/vapours is low.

In addition, given the likely ground conditions, the likelihood of a potentially complete contaminant linkage between contamination present on site and controlled waters is also considered to be low.

7 CONCLUSIONS AND RECOMMENDATIONS

The historical review has identified that the use of the site has remained the same from 1849-present, comprising open fields, potentially used for agriculture. A stream is present onsite in the southwest corner and a number of ponds are present. Onsite there are two possible areas of infilled land relating to former ponds. Furthermore, there is a potential for localised contamination associated with Made Ground. Historical landfill operations in the wider area also poses a potential source of contamination.

The site is likely to be underlain by low permeability cohesive soils, which would likely limit mobile contaminant laterally and vertically to the Principal Aquifer. The sandstone bedrock is expected at a depth of >7.5m bgl.

WSP is aware of ground investigation that have been performed on other parcels of land within the Omega South Business Park, but our review has not identified investigation locations within the proposed site boundary.

The key considerations for future development of the site are:

- Risk posed by potential contamination onsite to controlled waters and future site users is considered to be low due to the presence of low permeability clay beneath the site and site end-use design which removes any potential contamination pathways (hardstanding);
- Likelihood of ground gas is low as the number and small size of potentially infilled ponds containing gaseous materials is low; and,
- If contamination is present, risks to construction workers would likely be adequately mitigated by appropriate health and safety practices.

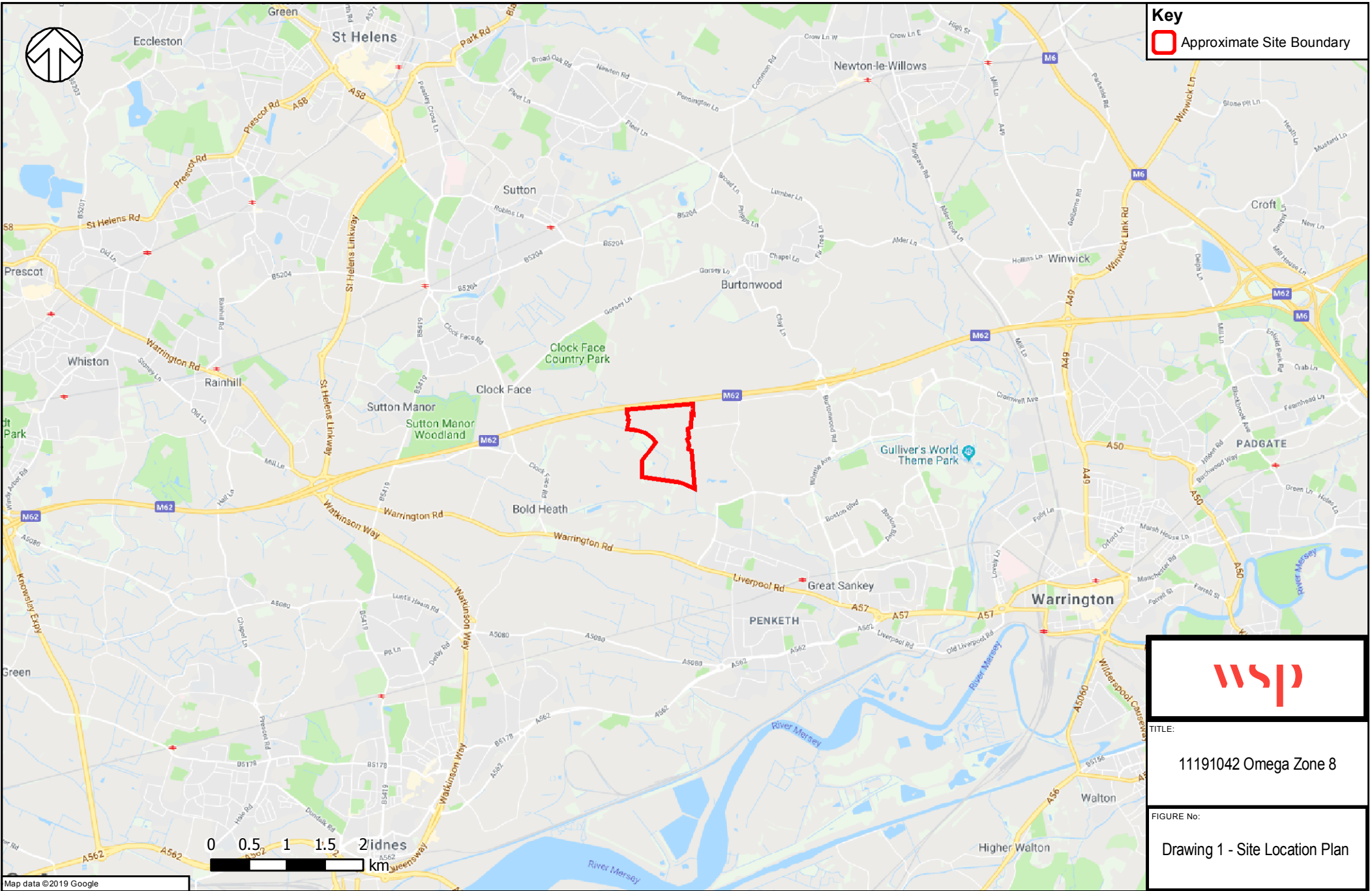
It is recommended that an intrusive ground investigation is undertaken to confirm:

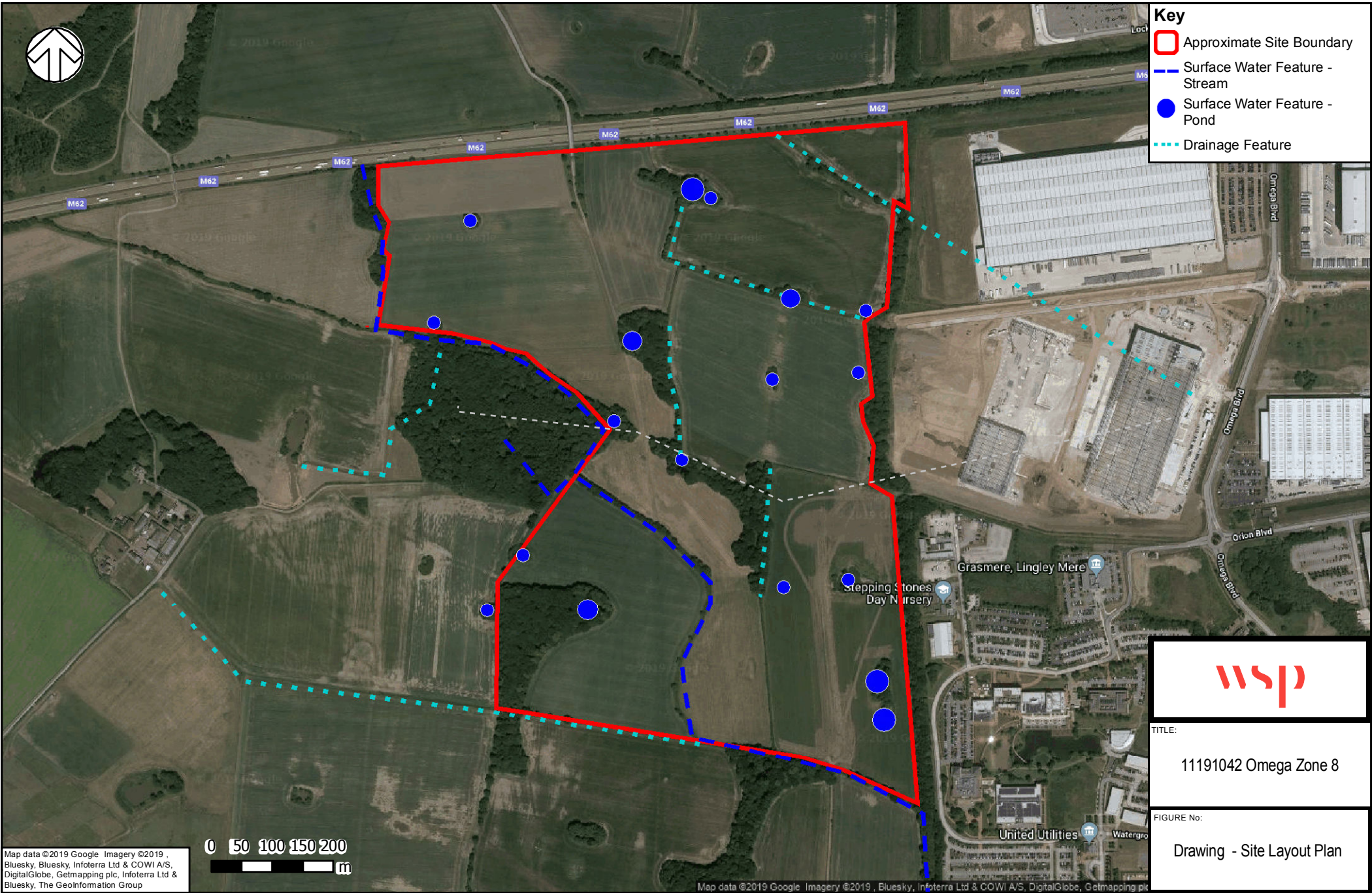
- The presence/absence of Made Ground deposits in infilled ponds;
- The shallow soils profile;
- Chemical nature of topsoil and Made Ground (if present);
- Potential for use of infiltration in future developments; and,
- Shallow soil engineering properties.

If contamination is found to be present, a remediation strategy should be undertaken to identify mitigation measures appropriate to the proposed site development and to ensure protection to the surrounding environment.

Appendix A

DRAWINGS **wsp**



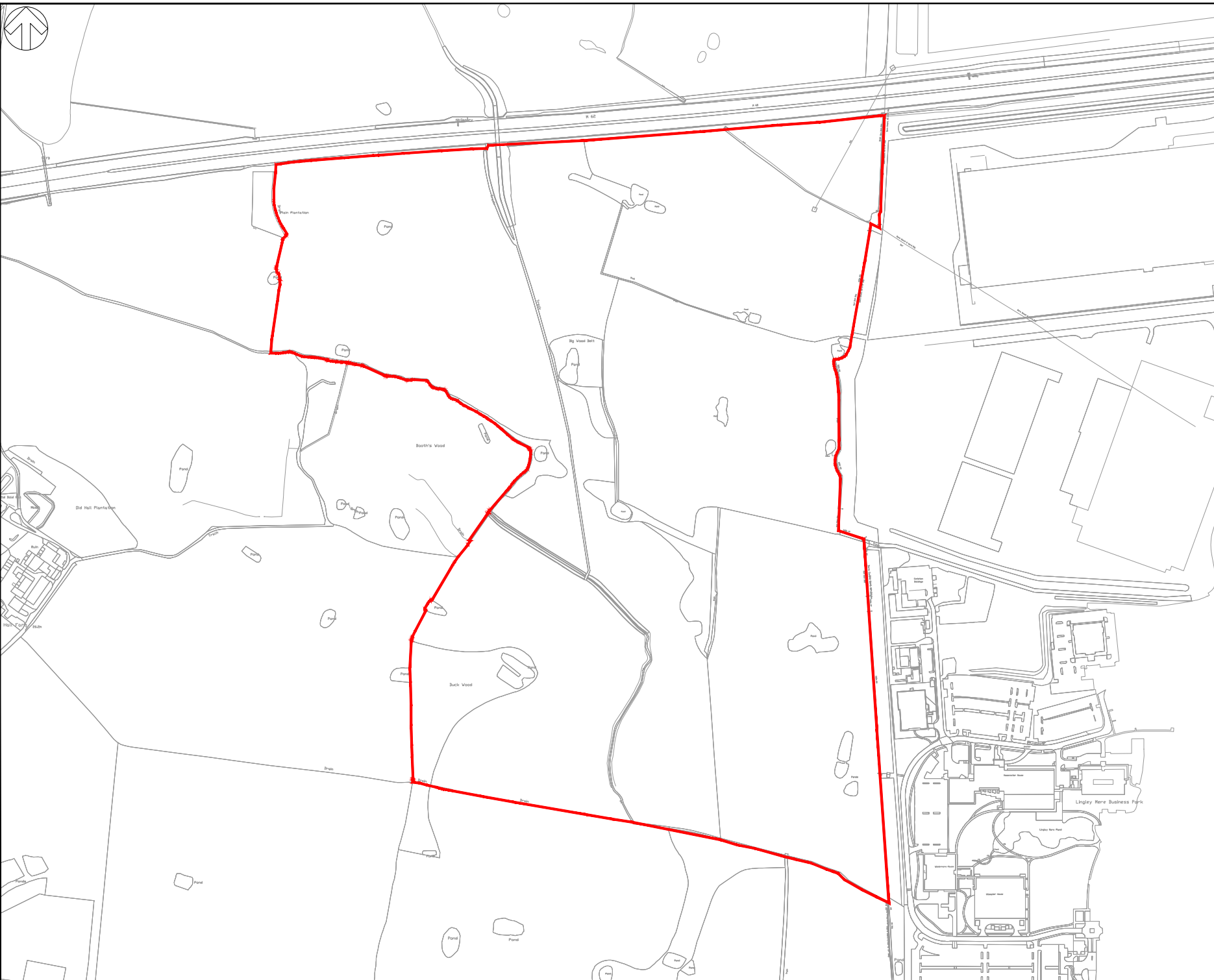


TITLE:

11191042 Omega Zone 8


FIGURE No:

Drawing - Site Layout Plan



KEY

— RED LINE BOUNDARY

A	16/06/2019	TS	PREP ISSUE	IF	
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS					
S0 - WORK IN PROGRESS					
					
8 First Street, Manchester, M15 4GU, UK T+ 44 (0) 161 200 5000 wsp.com					
CLIENT					
OMEGA WARRINGTON LTD					
PROJECT					
N/A					
LIFE PROJECT					
OMEGA WARRINGTON ZONE 8					
TITLE					
RED LINE BOUNDARY PLAN					
SCALE @ 1: 1 : 2500 m		CHECKED SG		APPROVED SG	
PROJECT NO 11190723		DRAWN BY TS		DATE April 19	
DRAWING NO 0723-Z8-SK-003					REV A
© WSP UK Ltd					

Appendix B

GENERAL LIMITATIONS

wsp

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

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

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

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

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

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

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

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

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

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

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

- 24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
- 25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

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

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

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

Appendix C

SITE WALKOVER PHOTOGRAPHS

wsp



Photo 1: North facing. Field of crops with electricity pylons



Photo 2: Northwest facing. Embankment to M62 motorway



Photo 3: Southeast facing. Onsite water feature flowing in south easterly direction.



Photo 4: North facing. Culvert underneath the M62



Photo 5: Southeast facing. Northern field of crops.



Photo 6: East facing. Grassed field.



Photo 7: East facing. Onsite pond.



Photo 8: Southeast facing. Grassed field.



Photo 9: East facing. Onsite central pond.



Photo 10: Southeast facing. Standing water.



Photo 11: South facing. Grassed fields.



Photo 12: West facing: Offsite adjacent stream



Photo 13: East facing. Small stockpile of rubble.



Photo 14: North facing. Grassed fields with wooden electricity pylons trending north to south.

Appendix D

ENVIROCHECK REPORT

wsp



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

177499144_1_1

Customer Reference:

11191042-S11

National Grid Reference:

355270, 390030

Slice:

A

Site Area (Ha):

33.49

Search Buffer (m):

1000

Site Details:

Old Bold Hall Farmhouse, Warrington Road

WIDNES

WA8 3XJ

Client Details:

Miss M Quentemeijer

WSP UK Ltd

The Victoria

150-182 The Quays

Salford

Manchester

M50 3SP

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	25
Hazardous Substances	-
Geological	28
Industrial Land Use	33
Sensitive Land Use	35
Data Currency	36
Data Suppliers	41
Useful Contacts	42

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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes		n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	4
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2	Yes			
Pollution Incidents to Controlled Waters	pg 2			5	17
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 6			8	
River Quality	pg 7	1			2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 8		1		
Water Abstractions	pg 8		1		(*3)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 9	Yes	n/a	n/a	n/a
Drift Deposits	pg 9	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones	pg 9	1			
Extreme Flooding from Rivers or Sea without Defences	pg 9	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10	14	18	38	64

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 25		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 25	3	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 25		7	4	28
Registered Landfill Sites	pg 27		1		
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 27				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 28	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 28	Yes	Yes	Yes	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	pg 30	Yes	n/a	n/a	n/a
Mining Instability	pg 30	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 30	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 31	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 31	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 33				8
Fuel Station Entries	pg 33				1
Points of Interest - Commercial Services	pg 33				3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 34				2
Points of Interest - Public Infrastructure	pg 34			1	5
Points of Interest - Recreational and Environmental	pg 34			2	
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	pg 35	1			1
Areas of Unadopted Green Belt	pg 35	1			
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 35	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
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (S)	0	1	355274 390000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	0	1	355000 390030
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (N)	0	1	355274 390030
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	165	1	355000 390000
1	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: O/S No.10 Bembridge Close Ps Great Sankey, Warrington, Cheshire, . Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992843 Permit Version: 1 Effective Date: 25th November 1994 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Whittle Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A7NW (SE)	266	2	355510 389530
2	Discharge Consents Operator: Snw Homes Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Snw Homes Development Swo Lingley Green, Great Sankey, Warrington, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016991125 Permit Version: 1 Effective Date: 1st July 1991 Issued Date: Not Supplied Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Whittle Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	528	2	355780 389370
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Barrowhall Lane Cso, Penketh, Warrington, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982891 Permit Version: 3 Effective Date: 1st November 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Whittle Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	884	2	356190 389290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Barrowhall Lane Cso, Penketh, Warrington, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982891 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 23rd May 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Whittle Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	884	2	356190 389290
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Barrowhall Lane Cso, Penketh, Warrington, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982891 Permit Version: 2 Effective Date: 24th May 1995 Issued Date: Not Supplied Revocation Date: 31st October 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Whittle Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	884	2	356190 389290
4	Local Authority Pollution Prevention and Controls Name: Ace Of Hearts Garage Location: 14 Warrington Road, Bold Heath, ST HELENS, Merseyside, WA Authority: St Helens Metropolitan Borough Council, Environmental Health Department Permit Reference: Petpermit010 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A2NW (SW)	977	3	354808 388982
	Nearest Surface Water Feature	A15SW (N)	0	-	355356 390574
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Whittle Brook Incident Date: 1st December 1994 Incident Reference: 94752623 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (S)	393	2	355500 389400
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; None Pollution Found Incident Date: 21st August 1996 Incident Reference: 96751863 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (S)	394	2	355505 389400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Unknown Note: Whittle Brook Incident Date: 1st March 1995 Incident Reference: 95750419 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (S)	398	2	355500 389395
5	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Unknown Note: Whittle Brook Incident Date: 7th March 1995 Incident Reference: 95750463 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (S)	399	2	355505 389395
6	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Copse On Park Road, Off Liverpool Road, GREAT SANKEY, Cheshire Authority: Environment Agency, North West Region Pollutant: Inert : Construction / Demolition Material Note: Not Supplied Incident Date: 1st February 1999 Incident Reference: 651 Catchment Area: Sankey Brook Old Course Receiving Water: River Stretch (Freshwater) Cause of Incident: Deliberate Action Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A7SW (S)	493	2	355500 389300
7	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 18th August 1995 Incident Reference: 95752132 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SE)	511	2	355600 389300
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Unknown Note: Tributary Whittle Brook; No Specific Cause Incident Date: 6th May 1994 Incident Reference: 94751310 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: High Temperature Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SE)	515	2	355600 389295
8	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Whittle Brook Incident Date: 26th October 1993 Incident Reference: 93430104 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	517	2	355800 389400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 27th June 1991 Incident Reference: 91430068 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6SE (S)	555	2	355200 389300
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Tributary Whittle Brook Incident Date: 22nd February 1991 Incident Reference: 91430020 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (S)	593	2	355500 389200
11	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Lingley Green Avenue, Great Sankey, GREAT SANKEY, Cheshire Authority: Environment Agency, North West Region Pollutant: Other Note: Not Supplied Incident Date: 23rd July 1999 Incident Reference: 30559 Catchment Area: River Mersey (Etherow) Receiving Water: River Stretch (Freshwater) Cause of Incident: Unauthorised Activity : Flytipping: MOU Response E Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (E)	753	2	356201 390001
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Unknown Note: Whittle Brook; None Pollution Found Incident Date: 26th April 1994 Incident Reference: 94750798 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	792	2	355500 389000
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Whittle Brook; Oil & Construction Incident Date: 6th January 1993 Incident Reference: 93430001 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	806	2	356100 389300
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Whittle Brook Incident Date: 8th January 1992 Incident Reference: 92430004 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	887	2	356200 389300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Whittle Brook Incident Date: 9th April 1993 Incident Reference: 93430040 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	890	2	356200 389295
14	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Whittle Brook; Sewage Incident Date: 14th October 1996 Incident Reference: 96752188 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	891	2	356205 389300
14	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Whittle Brook Incident Date: 13th June 1991 Incident Reference: 91430059 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	894	2	356205 389295
15	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Whittle Brook Incident Date: 1st July 1992 Incident Reference: 92430085 Catchment Area: Mersey - Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	888	2	356300 389500
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; None Pollution Found Incident Date: 26th April 1996 Incident Reference: 96750905 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	946	2	356200 389200
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Whittle Brook; None Pollution Found Incident Date: 24th April 1991 Incident Reference: 91430048 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	949	2	356200 389195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Whittle Brook; None Pollution Found Incident Date: 11th May 1991 Incident Reference: 91430056 Catchment Area: Sankey Brook Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	953	2	356205 389195
17	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Whittle Brook, Near Barrowhall Lane, GREAT SANKEY, Cheshire Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Dyestuffs Note: Not Supplied Incident Date: 24th August 1999 Incident Reference: 31704 Catchment Area: Sankey (Sutton) Brook Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	957	2	356000 389000
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP Authority: Environment Agency, North West Region Permit Reference: CB7352 Dated: 25th September 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under S13 or S14 RSA in respect of a registration under S7 or S10 RSA where the sum of the registered holdings does not exceed 20 megabecquerels Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP Authority: Environment Agency, North West Region Permit Reference: CB7379 Dated: 25th September 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: Bw5969 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under S13 or S14 RSA in respect of a registration under S7 or S10 RSA where the sum of the registered holdings does not exceed 20 megabecquerels Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: AV3931 Dated: 14th May 1996 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under S13 or S14 RSA in respect of a registration under S7 or S10 RSA where the sum of the registered holdings does not exceed 20 megabecquerels Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: AK0766 Dated: 22nd December 1993 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: AK3889 Dated: 22nd December 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to an authorisation under S13 or S14 RSA in respect of a registration under S7 when Technetium 99M is used being =< 10 gigabecquerels Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: AA4804 Dated: 24th June 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Registration under S7 or S10 RSA where the sum of the registered holdings does not exceed 20 megabecquerels Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
18	Registered Radioactive Substances Name: United Utilities Water Plc Location: Lingley Green Avenue, Warrington, WA5 3LQ Authority: Environment Agency, North West Region Permit Reference: AK3854 Dated: Not Supplied Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Exempt authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A11SE (SE)	257	2	355710 389725
	River Quality Name: Whittle Bk GQA Grade: River Quality B Reach: Qsl At A570 To Union Bank Bk Estimated Distance (km): 3.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A10SE (SW)	0	2	355181 389984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Whittle Bk GQA Grade: River Quality C Reach: Union Bank Bk To Fwl Estimated Distance (km): 3.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A7SW (S)	671	2	355426 389113
	River Quality Name: Union Bank Bk GQA Grade: River Quality D Reach: Qsl At Clock Face Road To Whittle Bk Estimated Distance (km): 2.2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A6SE (S)	673	2	354988 389240
19	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 19th March 2003 Incident Reference: 144336 Water Impact: Category 2 - Significant Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Other Agricultural Material Or Waste	A15NW (N)	54	2	355428 390984
20	Water Abstractions Operator: North West Water Ltd Licence Number: 2569026001 Permit Version: 100 Location: B/Holes (2) At Bold Heath & Park Farm, Whiston \$203 Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (S)	240	2	355300 389600
	Water Abstractions Operator: North West Water Ltd Licence Number: 2569026001 Permit Version: 100 Location: B/Holes (2) At Bold Heath & Park Farm, Whiston Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9100 Yearly Rate (m3): 3060000 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1578	2	353800 389100
	Water Abstractions Operator: United Utilities Customer Sales Ltd Licence Number: 2569026003 Permit Version: 1 Location: Bold Heath Authority: Environment Agency, North West Region Abstraction: Water supply related: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1627	2	353740 389107

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Customer Sales Ltd Licence Number: 2569026003 Permit Version: 1 Location: Bold Heath Authority: Environment Agency, North West Region Abstraction: Water supply related: Process water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1632	2	353735 389104
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A11NE (NE)	0	2	355579 390230
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A11NW (N)	0	2	355274 390030
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A11NW (N)	0	2	355274 390030
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A10NE (W)	0	1	355000 390030
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A11NW (N)	0	1	355274 390030
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A11SW (S)	0	1	355274 390000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A10NE (W)	0	1	355000 390030
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11NW (N)	0	1	355274 390030
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11SW (S)	0	1	355274 390000
21	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A11NW (N)	0	2	355274 390030
	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	A11SW (S)	0	2	355232 389876
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A11SW (S)	0	2	355232 389872
	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	A7NW (SE)	138	2	355441 389655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	0	4	355431 390758
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	0	4	355402 390773
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 243.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	0	4	355402 390773
25	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 48.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	0	4	355067 390795
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	0	4	355200 390906
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 663.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11SW (S)	0	4	355233 389871
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NE (NW)	0	4	355173 390141
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11NW (N)	0	4	355362 390358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 235.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SE (NW)	0	4	355044 390369
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15SW (N)	0	4	355359 390434
32	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 37.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15SW (N)	0	4	355356 390574
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15SW (N)	0	4	355327 390599
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15SW (N)	0	4	355212 390631
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SE (N)	0	4	355045 390690
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NE (N)	1	4	355186 390292
37	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NE (NW)	2	4	355054 390355
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	7	4	355418 390786

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	12	4	355418 390786
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 530.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15SE (NE)	27	4	355648 390620
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	36	4	355142 390947
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 538.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A15NW (N)	40	4	355457 390905
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 583.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NE (W)	88	4	355079 390107
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 951.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10SE (SW)	99	4	355067 389905
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11SE (SE)	99	4	355556 389851
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	104	4	355043 391008
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	104	4	355043 391008

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 24.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NE (N)	112	4	355027 391015
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 413.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	123	4	354860 390352
50	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 161.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11SE (SE)	130	4	355587 389865
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	185	4	354860 390352
52	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: Sankey Primacy: 1	A10NW (NW)	188	4	354844 390333
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11NE (NE)	246	4	355675 390230
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11SE (E)	274	4	355729 389896
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7NW (S)	275	4	355336 389513
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7NW (S)	276	4	355451 389516

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7NW (S)	320	4	355436 389462
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 385.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7NW (S)	320	4	355491 389473
59	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11SE (E)	332	4	355786 389895
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.9 Watercourse Level: Underground Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7NW (S)	342	4	355270 389500
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7NW (S)	344	4	355270 389500
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	368	4	354628 390465
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	368	4	354656 390570
64	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	374	4	354671 390356
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	378	4	354667 390357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7NE (SE)	382	4	355769 389565
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A11NE (E)	391	4	355821 390222
68	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	392	4	354653 390364
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7NW (S)	394	4	355341 389416
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NW (NW)	400	4	354566 390751
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NW (NW)	415	4	354553 390699
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 650.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14NW (NW)	415	4	354561 390747
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6NE (S)	431	4	355114 389461
74	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	442	4	354556 390686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	445	4	354553 390662
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	446	4	354588 390441
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	449	4	354584 390445
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 398.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6NE (SW)	455	4	354936 389498
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6NE (SW)	457	4	354974 389476
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A14SW (NW)	459	4	354570 390446
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	460	4	354543 390584
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	463	4	354560 390347
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (NE)	470	4	355893 390308

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	478	4	355902 390384
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 583.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A14SW (NW)	480	4	354543 390584
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (NE)	483	4	355903 390353
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (NE)	483	4	355903 390353
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (NE)	485	4	355905 390350
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	486	4	355906 390373
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	488	4	355906 390373
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	490	4	355908 390369
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A10NW (NW)	510	4	354535 390347

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	510	4	355941 390203
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	512	4	355943 390203
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	512	4	355943 390203
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A9NE (NW)	518	4	354527 390347
97	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: Sankey Primacy: 1	A12NW (E)	534	4	355965 390211
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 718.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	544	4	355977 390174
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16NW (NE)	574	4	356039 390879
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 251.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A7SE (SE)	587	4	355832 389337
101	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: Sankey Primacy: 1	A7SE (SE)	587	4	355832 389337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	610	4	356036 390276
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 401.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6NW (SW)	612	4	354614 389624
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7SW (S)	620	4	355224 389218
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	622	4	356042 390668
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	644	4	356046 390663
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 429.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A16SW (NE)	648	4	356046 390663
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	680	4	356106 390287
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12NW (E)	680	4	356106 390287
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7SW (S)	683	4	355398 389111

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A7SW (S)	693	4	355356 389102
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A7SW (S)	693	4	355360 389104
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SE (S)	698	4	355202 389120
114	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NW (SE)	718	4	356154 389601
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A6SE (S)	721	4	355202 389120
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A13NE (NW)	726	4	354219 390886
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8SW (SE)	739	4	356053 389348
118	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 34.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A13NE (NW)	743	4	354205 390919
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NW (SE)	744	4	356073 389367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 36.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NW (SE)	758	4	356196 389607
121	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NW (SE)	769	4	356198 389570
122	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: Sankey Primacy: 1	A8NW (SE)	772	4	356201 389570
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NW (SE)	779	4	356208 389565
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A8SW (SE)	790	4	356052 389267
125	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	793	4	354709 389243
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	807	4	354702 389231
127	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: Sankey Primacy: 1	A13SE (W)	819	4	354215 390411
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8SW (SE)	862	4	355986 389107

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A2NE (S)	877	4	355163 388967
130	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (SE)	883	4	356268 389431
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (SE)	888	4	356272 389428
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A6SW (SW)	892	4	354706 389127
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	892	4	354706 389127
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	904	4	354692 389122
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8SW (SE)	905	4	356179 389239
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 960.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Whittle Brook Catchment Name: Sankey Primacy: 1	A8SW (SE)	906	4	356179 389238
137	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: Sankey Primacy: 1	A6SW (SW)	909	4	354685 389119

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 31.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (SE)	934	4	356318 389419
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	937	4	354652 389108
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A12SE (E)	937	4	356398 389771
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	941	4	354647 389107
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A13NW (NW)	957	4	353976 390967
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (E)	958	4	356397 389589
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (SE)	959	4	356348 389426
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A13NW (NW)	961	4	353995 390768
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A13NW (NW)	961	4	353995 390768

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (E)	962	4	356398 389569
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	963	4	354615 389101
149	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8NE (SE)	964	4	356398 389562
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	966	4	354609 389102
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 260.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A5NE (W)	981	4	354224 389612
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A6SW (SW)	988	4	354568 389104
153	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: Sankey Primacy: 1	A6SW (SW)	989	4	354566 389104
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 317.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 2	A2NE (S)	995	4	355131 388853
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A8SE (SE)	998	4	356356 389348

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Historical Landfill Sites Licence Holder: Royal Air Force Location: Barrows Hall Lane, Great Sankey, Cheshire Name: RAF Site Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16834 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: W190, 60416	A11SW (SE)	5	2	355437 389798
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	6	355274 390030
	Local Authority Landfill Coverage Name: St Helens Metropolitan District Council - Landfill data has been supplied by another authority		0	5	355274 390030
	Local Authority Landfill Coverage Name: Warrington Unitary Council - Has not been able to supply Landfill data		0	7	355419 390040
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15NW (N)	9	-	355422 390785
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15NW (N)	47	-	355462 390872
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15NW (N)	75	-	355489 390959
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15SE (NE)	162	-	355557 390655
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15NE (N)	186	-	355603 390891
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15SE (NE)	207	-	355600 390638
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15SE (NE)	223	-	355619 390665
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15SE (NE)	316	-	355702 390568
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A15NE (NE)	357	-	355773 390882
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A15SE (NE)	358	-	355757 390696
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7NE (SE)	438	-	355565 389366
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SE (S)	524	-	355576 389280
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16NW (NE)	536	-	355936 390703

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SW (S)	622	-	355518 389172
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16NW (NE)	651	-	356067 390862
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SW (S)	651	-	355412 389142
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8NW (SE)	674	-	356076 389514
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16SW (NE)	680	-	356068 390562
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16NW (NE)	683	-	356100 390991
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A7SW (S)	708	-	355340 389094
177	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SW (S)	716	-	355239 389111
178	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8SW (SE)	718	-	355994 389309
179	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SE (SE)	732	-	355703 389100
180	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A16SW (NE)	758	-	356144 390544
181	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SE (S)	764	-	355668 389055
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16NW (NE)	770	-	356190 390933
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A7SW (S)	777	-	355468 389014
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16SW (NE)	784	-	356180 390644
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A3NW (S)	832	-	355461 388960
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A12NE (E)	836	-	356275 390112
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16SE (E)	850	-	356263 390436
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A12NE (E)	896	-	356338 390074
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A12NE (E)	915	-	356352 390138
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A9NW (W)	924	-	354129 390250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A16NE (NE)	946	-	356360 391028
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A16NE (NE)	948	-	356360 390808
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A8NE (SE)	948	-	356336 389423
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A16SE (NE)	987	-	356391 390499
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1929	A12NE (E)	991	-	356414 390342
196	Registered Landfill Sites Licence Holder: R.A.I. Licence Reference: Z 60416 Site Location: R.A.F. Great Sankey, Great Sankey, Warrington, Cheshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: Not Supplied Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Old Licence - Wastes Not To Hand	A11SW (SE)	11	2	355428 389788
197	Registered Waste Treatment or Disposal Sites Licence Holder: A Daniels & C Lunnun Licence Reference: 61709 Site Location: B.H.L Autos Barrow Hall Lane, Great Sankey, WARRINGTON, Cheshire, WA5 3AE Operator Location: Croft Riding Centre, Spring Lane, Croft, Warrington, Cheshire Authority: Environment Agency - North West Region, South Area Site Category: Scrapyard Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 1st December 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Vehicles & Automotive Parts Prohibited Waste: Waste N.O.S.	A8NW (SE)	793	2	356210 389530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A11NW (N)	0	1	355274 390030
	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: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (S)	0	1	355274 390000
	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: 90 - 120 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (N)	0	1	355274 390500
	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: 90 - 120 mg/kg Lead Concentration: >1200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SE (NW)	0	1	355000 390500
	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: 90 - 120 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (N)	0	1	355274 390030
	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: 90 - 120 mg/kg Lead Concentration: 600 - 1200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A10NE (W)	31	1	355000 390030
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (E)	38	1	355500 390030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15NW (N)	69	1	355274 391000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (NE)	80	1	355500 390500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (N)	99	1	355000 391000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15NW (N)	106	1	355500 391000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13SE (NW)	447	1	354500 390500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NW)	459	1	354500 391000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9NE (W)	525	1	354500 390030
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A5NE (SW)	772	1	354500 389500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A3NW (S)	791	1	355274 389000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NW (NW)	953	1	354000 391000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A11NW (N)	0	8	355274 390030
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11NW (N)	0	-	355274 390030
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	355000 390030
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	1	355274 390030
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	165	1	355000 390000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A11NW (N)	0	1	355274 390030
	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	A11SW (S)	0	1	355274 390001
	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	A10NE (W)	0	1	355000 390030
	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	A11NW (N)	0	1	355274 390030
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	355274 390001
	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	A10NE (W)	0	1	355000 390030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	Contemporary Trade Directory Entries Name: D C Domestics Location: 17, Freshwater Close, Great Sankey, Warrington, WA5 3PU Classification: Cookers - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (S)	550	-	355591 389256
198	Contemporary Trade Directory Entries Name: D C Electrical Location: 17, Freshwater Close, Great Sankey, Warrington, WA5 3PU Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (S)	550	-	355591 389256
199	Contemporary Trade Directory Entries Name: Ruben Baillet Cleaning Contractors Location: 16, Mayfair Close, Great Sankey, Warrington, WA5 3PL Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SE)	650	-	355774 389221
200	Contemporary Trade Directory Entries Name: Car Washing Location: 223, Park Road, Great Sankey, Warrington, WA5 3PH Classification: Commercial Vehicle & Car Cleaning Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SE)	799	-	355817 389075
201	Contemporary Trade Directory Entries Name: 100 Percent Gas Location: 2, York Avenue, Great Sankey, Warrington, WA5 3JG Classification: Gas Appliances - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (SE)	921	-	356003 389046
202	Contemporary Trade Directory Entries Name: H S K Motors Ltd Location: Warrington Road, Bold Heath, Widnes, Cheshire, WA8 3XN Classification: Car Dealers - Used Status: Active Positional Accuracy: Manually positioned within the geographical locality	A2NW (SW)	965	-	354819 388991
202	Contemporary Trade Directory Entries Name: Texaco Location: Warrington Road, Bold Heath, Widnes, Cheshire, WA8 3XN Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A2NW (SW)	966	-	354815 388991
203	Contemporary Trade Directory Entries Name: Sara Marleau Fine Fabrics Ltd Location: 35, Stockdale Drive, Great Sankey, Warrington, WA5 3RU Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	974	-	356393 389507
204	Fuel Station Entries Name: Ace Of Hearts Garage Location: Warrington Road , Bold Heath , Widnes, Merseyside, WA8 3XN Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A2NW (SW)	966	-	354815 388991
205	Points of Interest - Commercial Services Name: Deans Car Cleaning Location: 223 Park Road, Great Sankey, Warrington, WA5 3PH Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7SE (SE)	800	9	355817 389075
206	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	A8NE (SE)	891	9	356311 389521
207	Points of Interest - Commercial Services Name: Ace of Hearts Garage Location: Warrington Road, Bold Heath, Widnes, WA8 3XN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A2NW (SW)	965	9	354819 388991

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	Points of Interest - Manufacturing and Production Name: Tank Location: WA5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (SE)	672	9	356099 389580
209	Points of Interest - Manufacturing and Production Name: Tank Location: WA5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (E)	758	9	356199 390084
210	Points of Interest - Public Infrastructure Name: Outfall Location: WA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	483	9	355737 389395
211	Points of Interest - Public Infrastructure Name: Outfalls Location: WA5 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A7SE (SE)	591	9	355841 389338
212	Points of Interest - Public Infrastructure Name: Burtonwood Airfield (Disused) Location: WA5 Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to address or location	A16NE (NE)	871	9	356279 390767
213	Points of Interest - Public Infrastructure Name: Texaco Location: Warrington Road, Bold Heath, Widnes, WA8 3XN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A2NW (SW)	966	9	354815 388991
213	Points of Interest - Public Infrastructure Name: Ace of Hearts Garage Location: Warrington Road, Bold Heath, Widnes, WA8 3XN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A2NW (SW)	966	9	354798 388998
213	Points of Interest - Public Infrastructure Name: Ace of Hearts Garage Location: Warrington Road, Bold Heath, Widnes, WA8 3XN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A2NW (SW)	966	9	354815 388991
214	Points of Interest - Recreational and Environmental Name: Play Area Location: Freshwater Close, WA5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	438	9	355681 389412
214	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SE)	442	9	355690 389413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	Areas of Adopted Green Belt Authority: St Helens Metropolitan Borough Council Plan Name: St Helens Unitary Development Plan Status: Adopted Plan Date: 2nd July 1998	A11NW (N)	0	5	355274 390030
216	Areas of Adopted Green Belt Authority: Warrington Borough Council Plan Name: Core Strategy Status: Adopted Plan Date: 21st July 2014	A2NE (S)	601	10	355138 388880
217	Areas of Unadopted Green Belt Authority: St Helens Metropolitan Borough Council Plan Name: Bold Forest Area Action Plan Status: Submission Draft Plan Date: 6th May 2016	A11NW (N)	0	5	355274 390030
218	Nitrate Vulnerable Zones Name: Whittle Brook Nvz Description: Surface Water Source: Environment Agency, Head Office	A11NW (N)	0	12	355274 390030
219	Nitrate Vulnerable Zones Name: Sankey Brook (Black Bk To Mersey) Nvz Description: Surface Water Source: Environment Agency, Head Office	A12NW (E)	416	12	355939 390280

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices St Helens Metropolitan Borough Council - Environmental Protection Department Knowsley Metropolitan Borough Council - Department of Planning and Development Warrington Borough Council - Environmental Health Department Halton Borough Council - Environmental Health Department	December 2014 January 2015 March 2015 October 2017	Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2018	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	July 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Halton Borough Council - Environmental Health Department Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division	April 2013 February 2013 February 2015 June 2013	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 February 2015 January 2015 November 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 February 2015 January 2015 November 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - North West Region	January 2015	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area	July 2018	Quarterly
Water Abstractions Environment Agency - North West Region	July 2018	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2018	Quarterly
Flood Defences Environment Agency - Head Office	May 2018	Quarterly
OS Water Network Lines Ordnance Survey	May 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
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	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	April 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	April 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	July 2018	Quarterly
Local Authority Landfill Coverage Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council Warrington Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council Warrington Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Warrington Borough Council - Environmental and Regeneration	August 2015 August 2015 February 2016 June 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Warrington Borough Council - Environmental and Regeneration	August 2015 August 2015 February 2016 June 2016	Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	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	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	June 2018	Quarterly
Points of Interest - Education and Health PointX	June 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2018	Quarterly
Points of Interest - Public Infrastructure PointX	June 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	

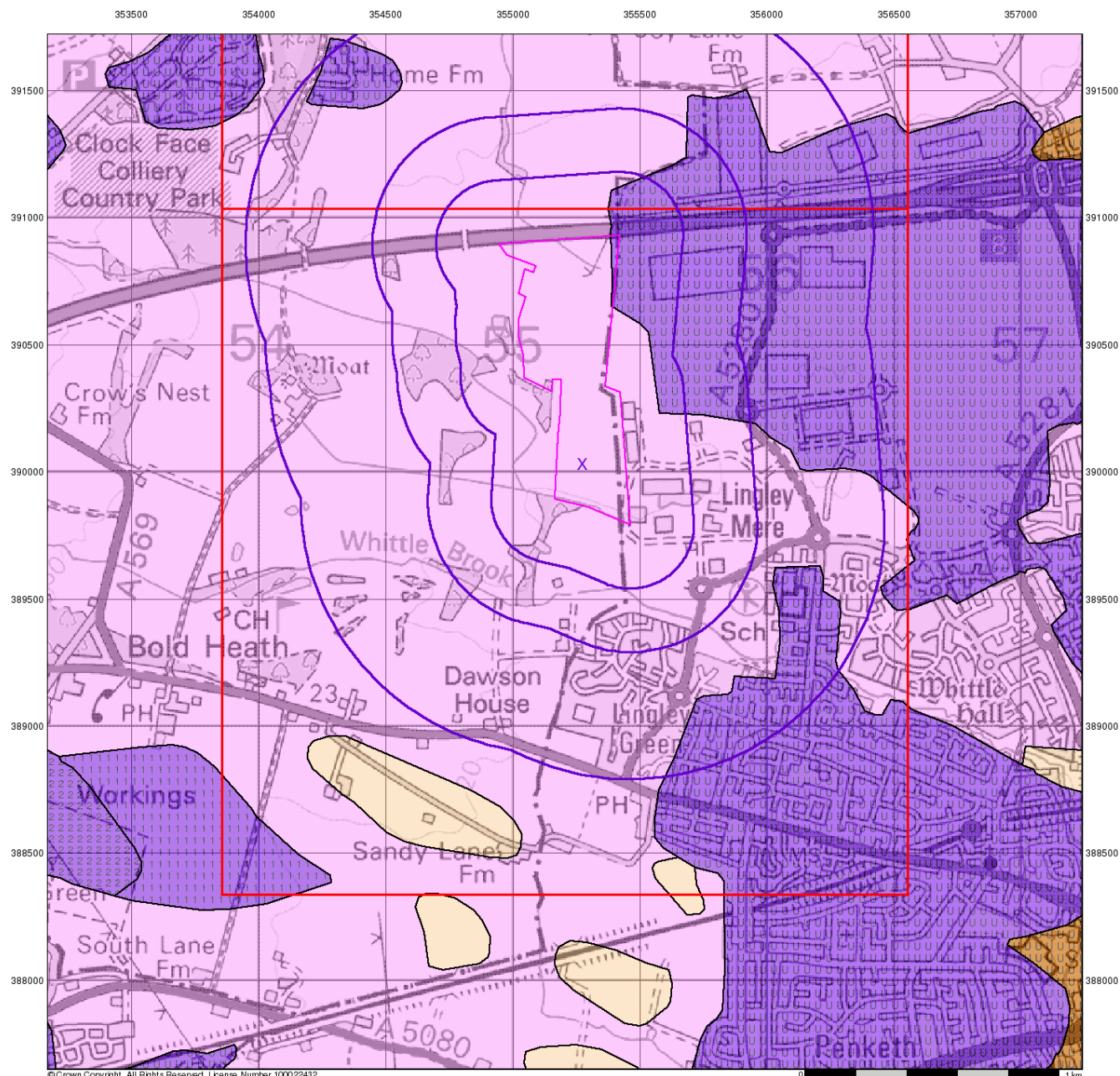
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Warrington Borough Council	February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified
Areas of Unadopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Warrington Borough Council	February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	August 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	August 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2018	Bi-Annually
Special Areas of Conservation Natural England	August 2018	Bi-Annually
Special Protection Areas Natural England	August 2018	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	St Helens Metropolitan Borough Council - Environmental Health Department Town Hall, Corporation Street, St Helens, Merseyside, WA10 1HE	Telephone: 01744 456000 Fax: 01744 733337 Website: www.sthelens.gov.uk
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	St Helens Metropolitan Borough Council Town Hall, Corporation Street, St Helens, Merseyside, WA10 1HP	Telephone: 01744 456000 Fax: 01744 733337 Website: www.sthelens.gov.uk
6	Merseyside Waste Disposal Authority 2nd Floor, North House, 17 North John Street, Liverpool, Merseyside, L2 5QY	Telephone: 0151 2551444 Fax: 0151 2271848 Email: enquiries@merseysidewda.gov.uk
7	Warrington Borough Council - Environmental Health Department Technical Services, Palmyra House, Palmyra Square North, North Warrington, Cheshire, WA1 1JN	Telephone: 01925 444400 Fax: 01925 442024 Website: www.warrington.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Warrington Borough Council Town Hall, Warrington, Cheshire, WA1 1UH	Telephone: 01925 442140 Fax: 01925 442024 Website: www.warrington.gov.uk
11	Halton Borough Council Municipal Buildings, Kingsway, Widnes, Cheshire, WA8 7QF	Telephone: 0151 424 2061 Fax: 0151 471 7302 Website: www.halton.gov.uk
12	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	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

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

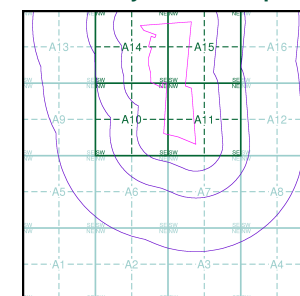
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

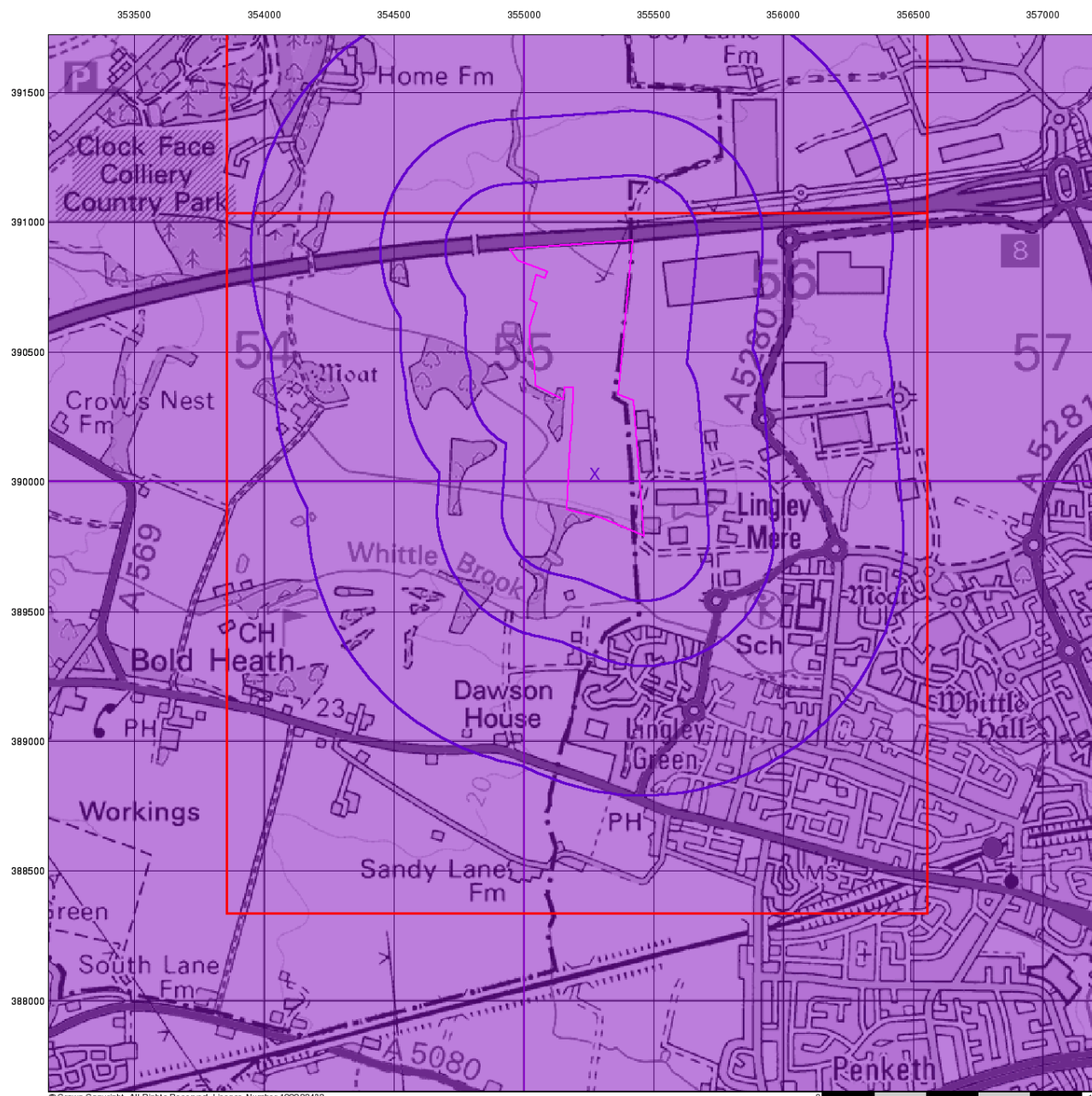
Order Number: 177499144_1_1
 Customer Ref: 11191042-S11
 National Grid Reference: 355270, 390030
 Slice: A
 Site Area (Ha): 33.49
 Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ



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0 1 km



Bedrock Aquifer Designation

General

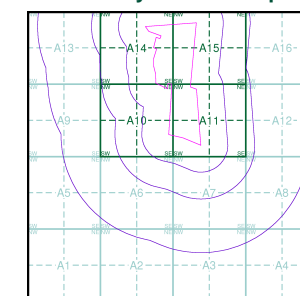
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 Map ID

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

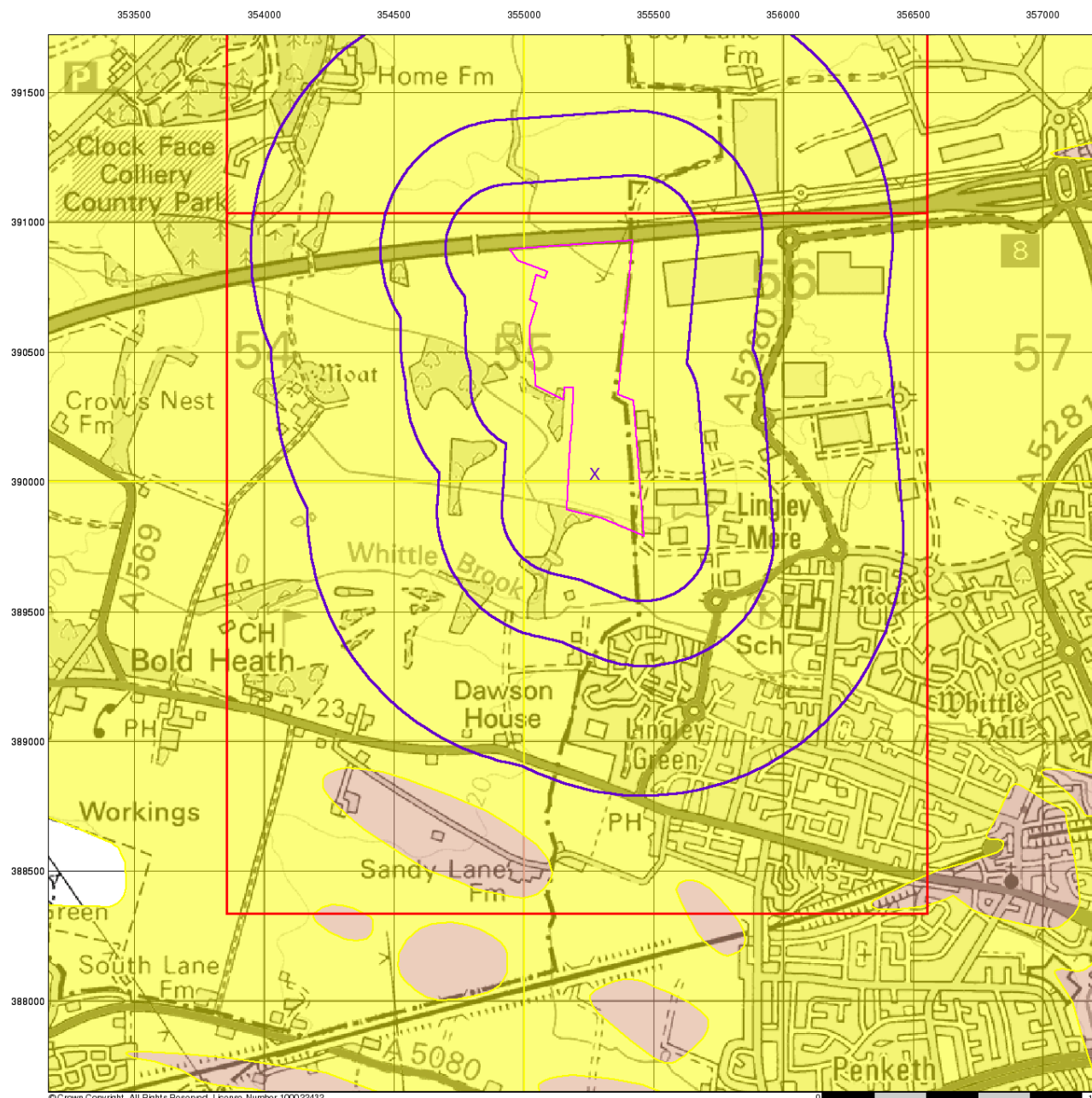
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Superficial Aquifer Designation

General

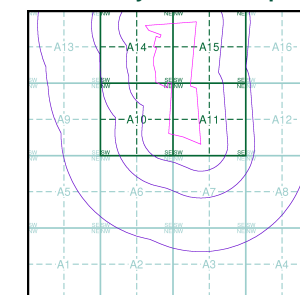
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 Map ID

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

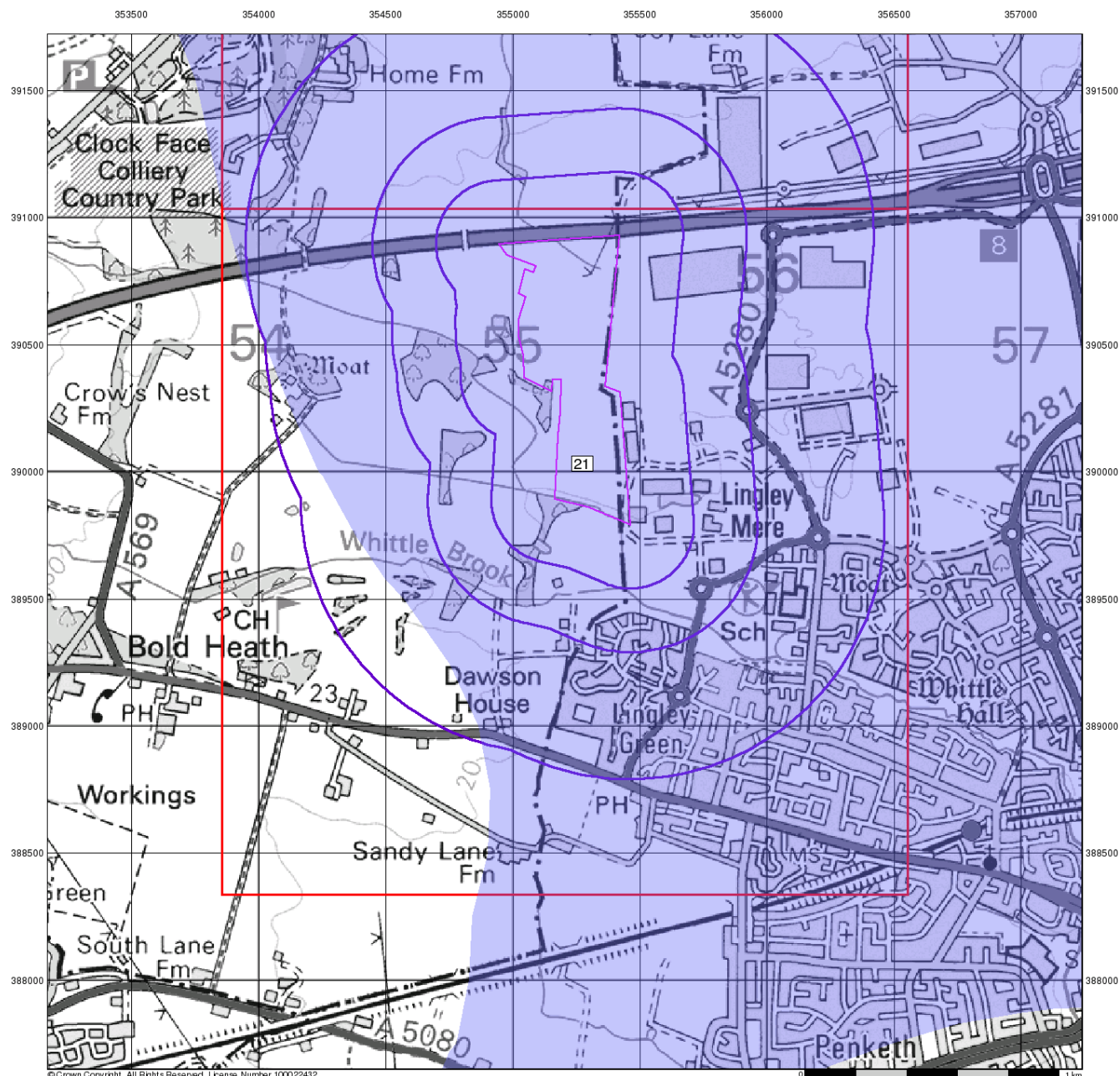
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Source Protection Zones

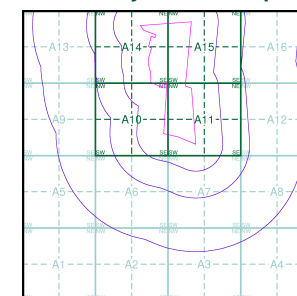
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 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

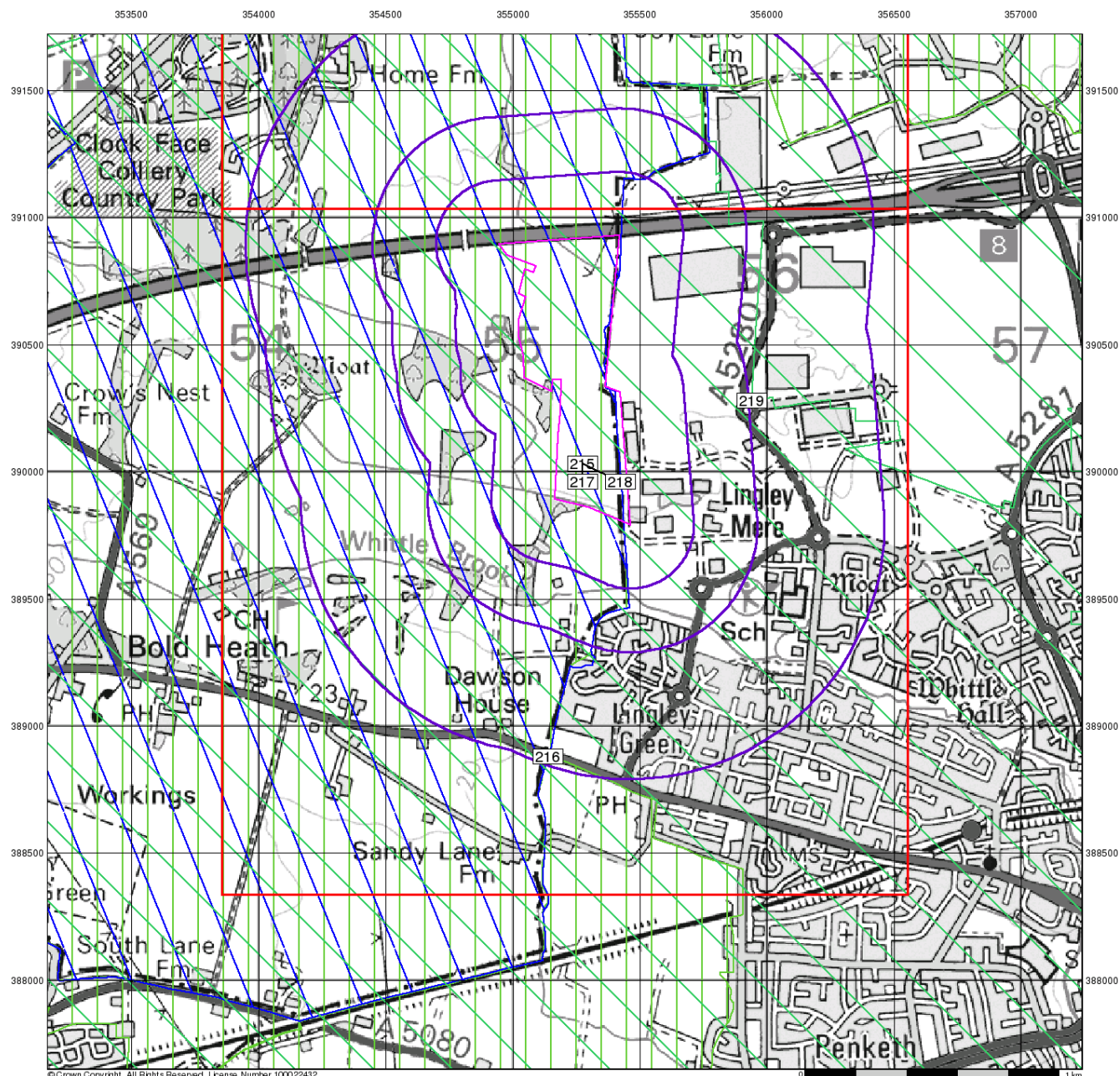
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Sensitive Land Uses

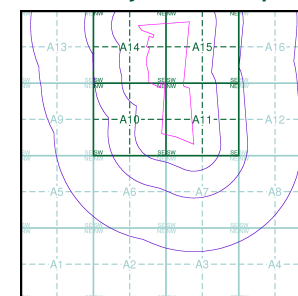
General

- 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

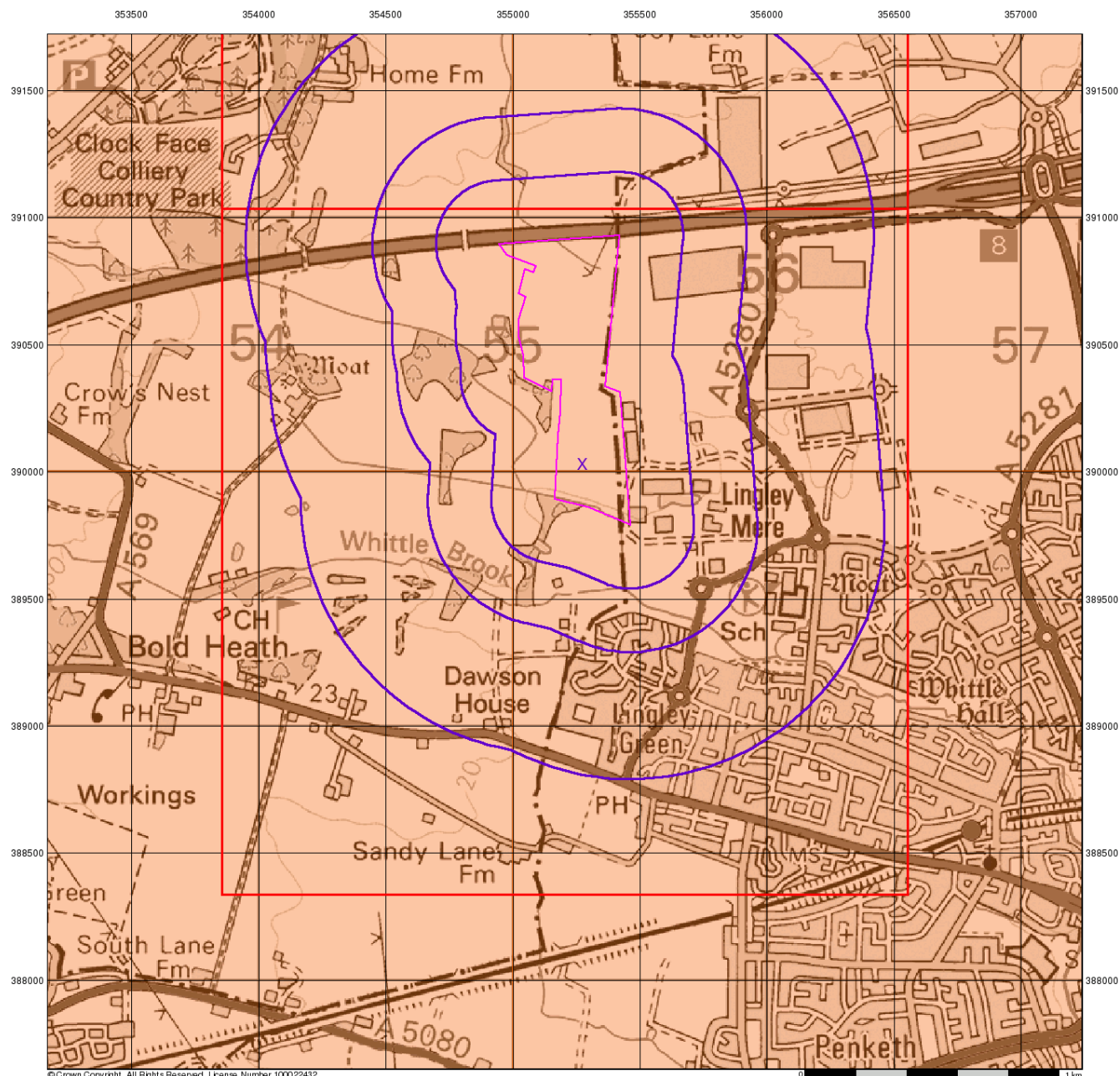
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0 1 km



BGS Flood GFS Data

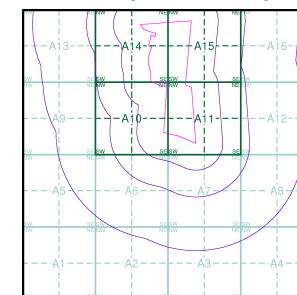
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



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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		
	Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

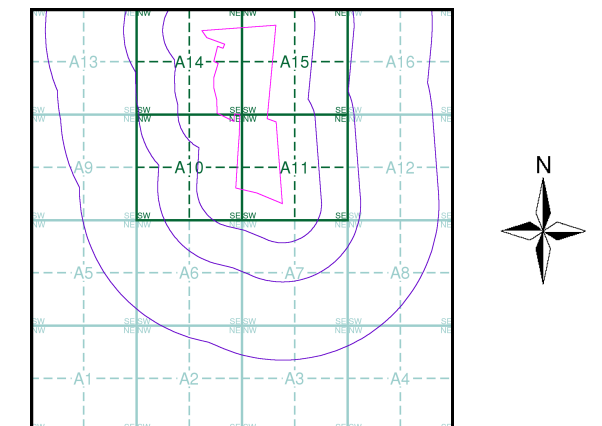
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849	3
Cheshire	1:10,560	1881 - 1882	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1896	6
Cheshire	1:10,560	1899	7
Lancashire And Furness	1:10,560	1908	8
Cheshire	1:10,560	1910	9
Lancashire And Furness	1:10,560	1928 - 1929	10
Lancashire And Furness	1:10,560	1928 - 1929	11
Lancashire And Furness	1:10,560	1928	12
Lancashire And Furness	1:10,560	1938 - 1939	13
Lancashire And Furness	1:10,560	1951	14
Ordnance Survey Plan	1:10,000	1954 - 1956	15
Ordnance Survey Plan	1:10,000	1958	16
Ordnance Survey Plan	1:10,000	1965 - 1969	17
Ordnance Survey Plan	1:10,000	1970 - 1978	18
Ordnance Survey Plan	1:10,000	1975	19
Ordnance Survey Plan	1:10,000	1982 - 1989	20
Warrington	1:10,000	1984	21
St Helens	1:10,000	1984	22
Ordnance Survey Plan	1:10,000	1990 - 1993	23
10K Raster Mapping	1:10,000	1999	24
10K Raster Mapping	1:10,000	2006	25
VectorMap Local	1:10,000	2018	26

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

Landmark
INFORMATION GROUP

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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Small Bridge Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Cut Fill Km Post Plantings Width of Road Steep Grade

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Small Bridge Pipe (Culvert) Tunnel Dismantled Railroad

Double-track Railroad with First Class Station Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

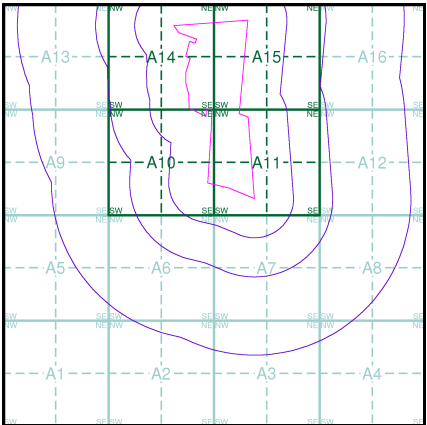
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849	3
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Lancashire And Furness	1:10,560	1928 - 1929	11
Lancashire And Furness	1:10,560	1928	12
Lancashire And Furness	1:10,560	1938 - 1939	13
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Ordnance Survey Plan	1:10,000	1975	19
Ordnance Survey Plan	1:10,000	1982 - 1989	20
Warrington	1:10,000	1984	21
St Helens	1:10,000	1984	22
Ordnance Survey Plan	1:10,000	1990 - 1993	23
10K Raster Mapping	1:10,000	1999	24
10K Raster Mapping	1:10,000	2006	25
VectorMap Local	1:10,000	2018	26

Russian Map - Slice A



Order Details

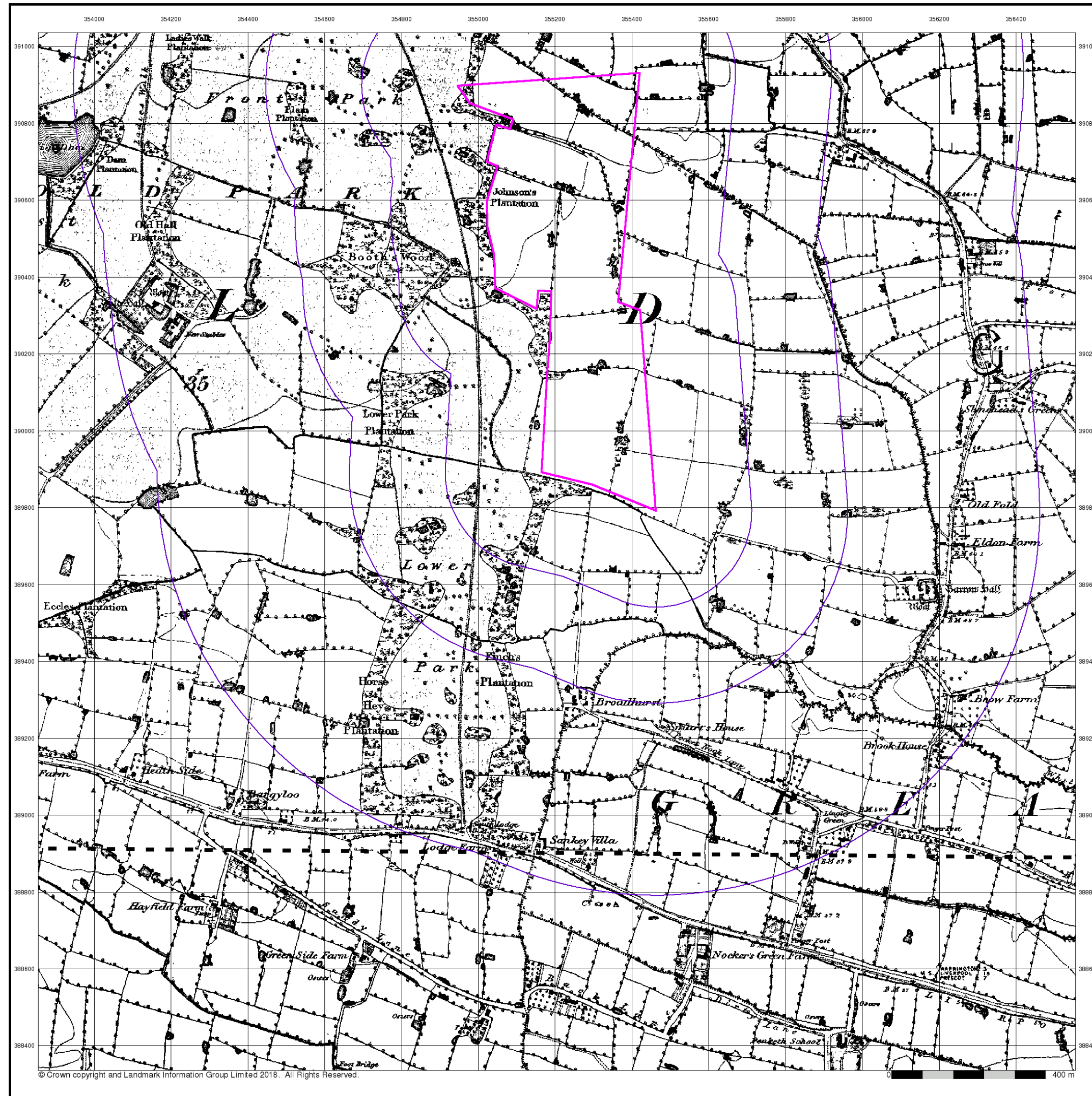
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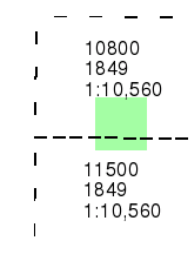
Lancashire And Furness

Published 1849

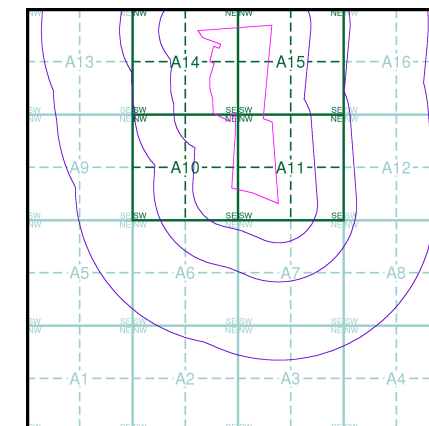
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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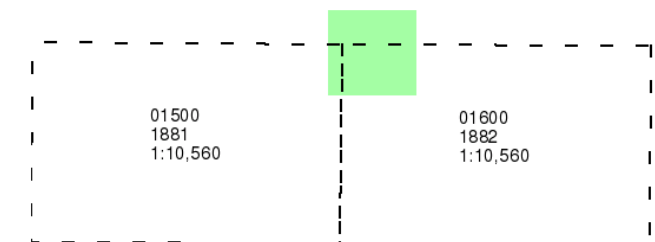
Cheshire

Published 1881 - 1882

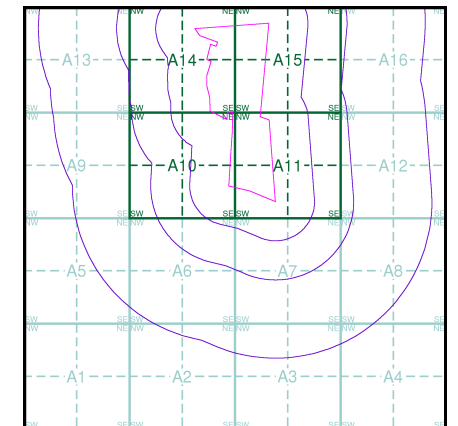
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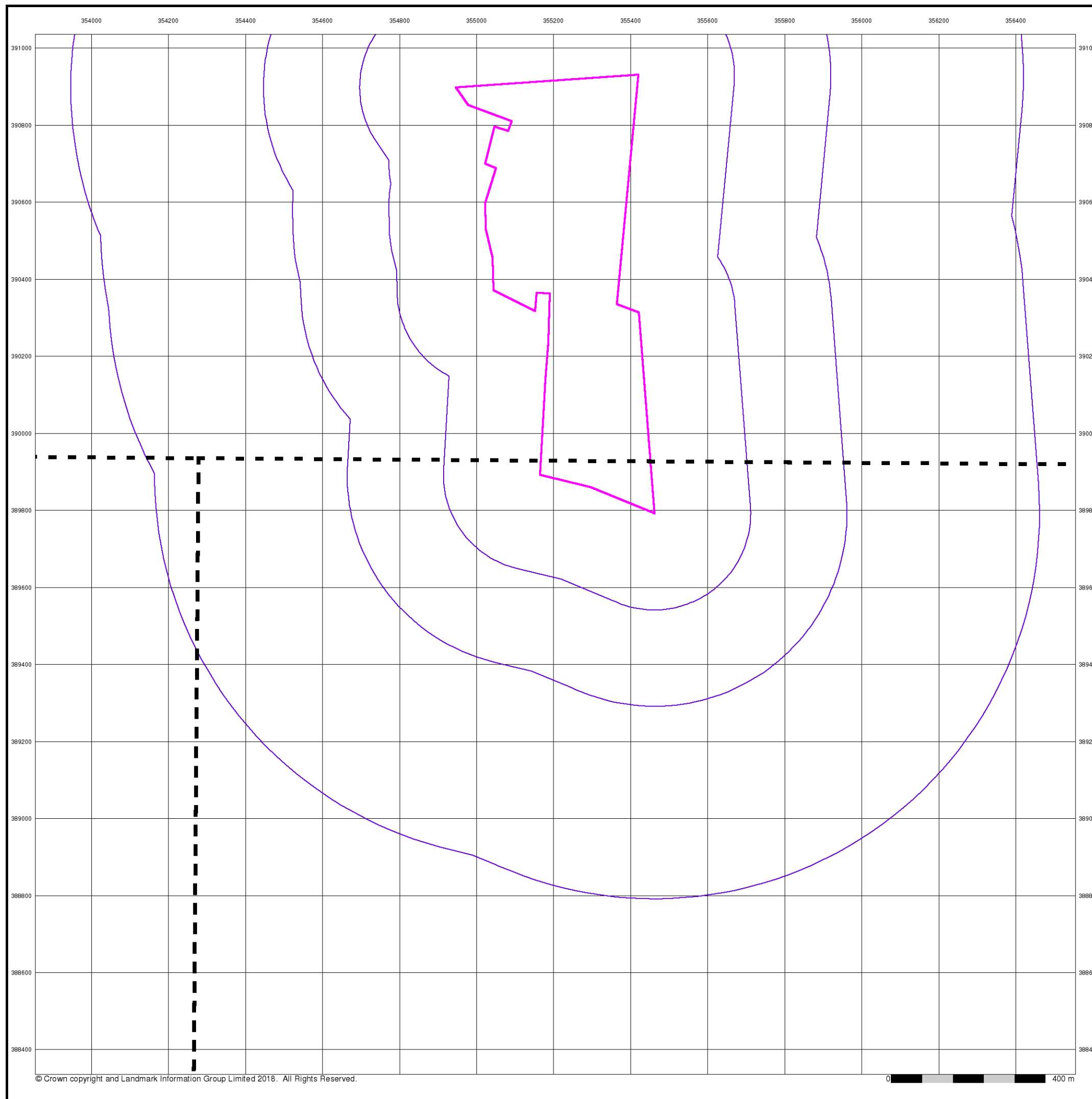
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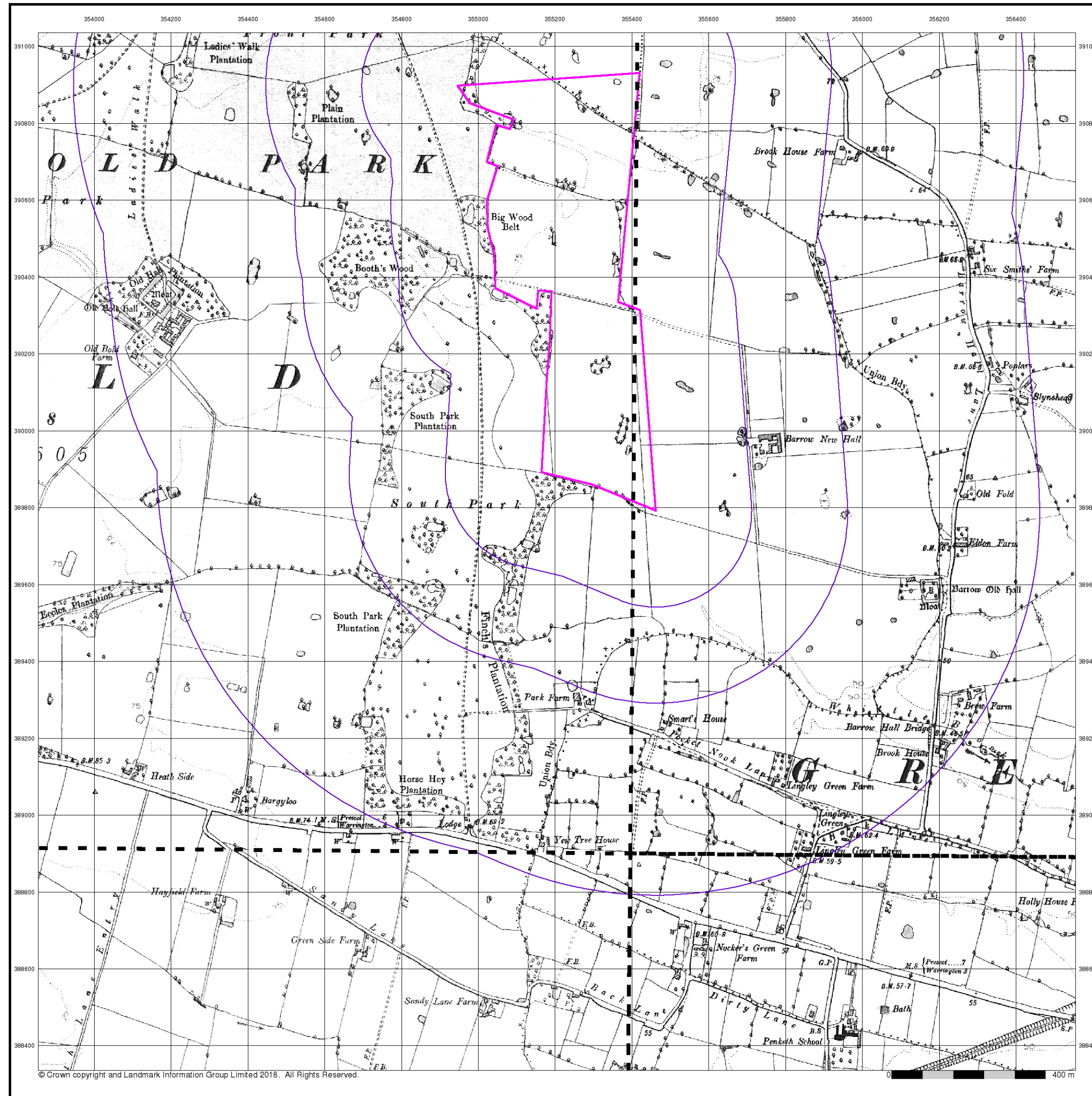
Site Details

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Lancashire And Furness

Published 1894

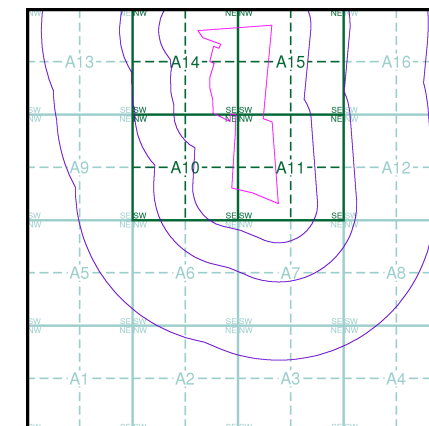
Source map scale - 1:10,560

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)

108SW 1894 1:10,560	108SE 1894 1:10,560
115NW 1894 1:10,560	115NE 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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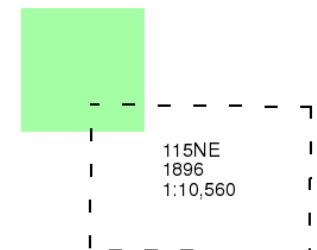
Lancashire And Furness

Published 1896

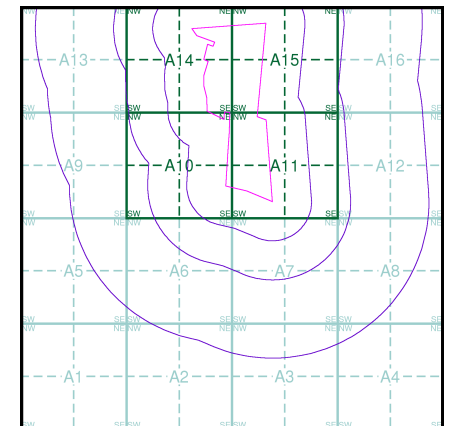
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

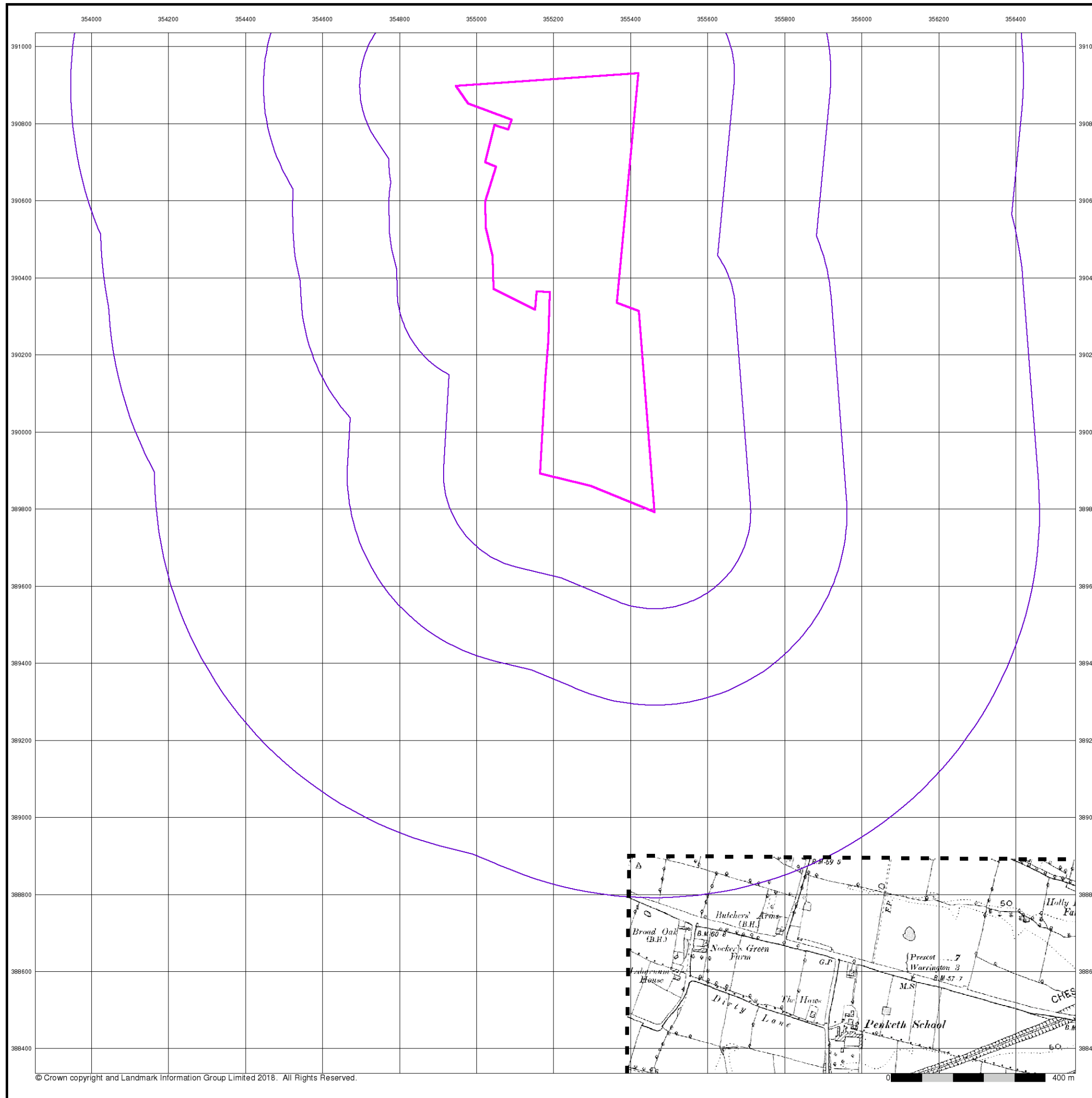
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Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

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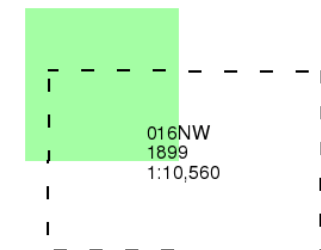
Cheshire

Published 1899

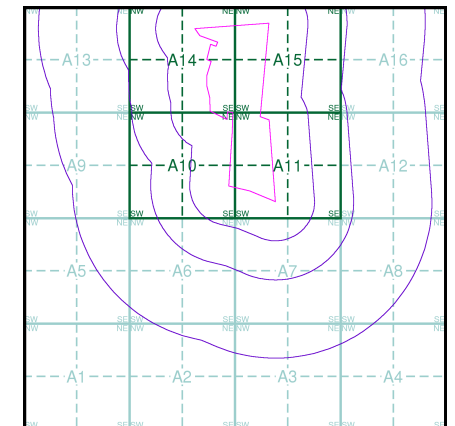
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

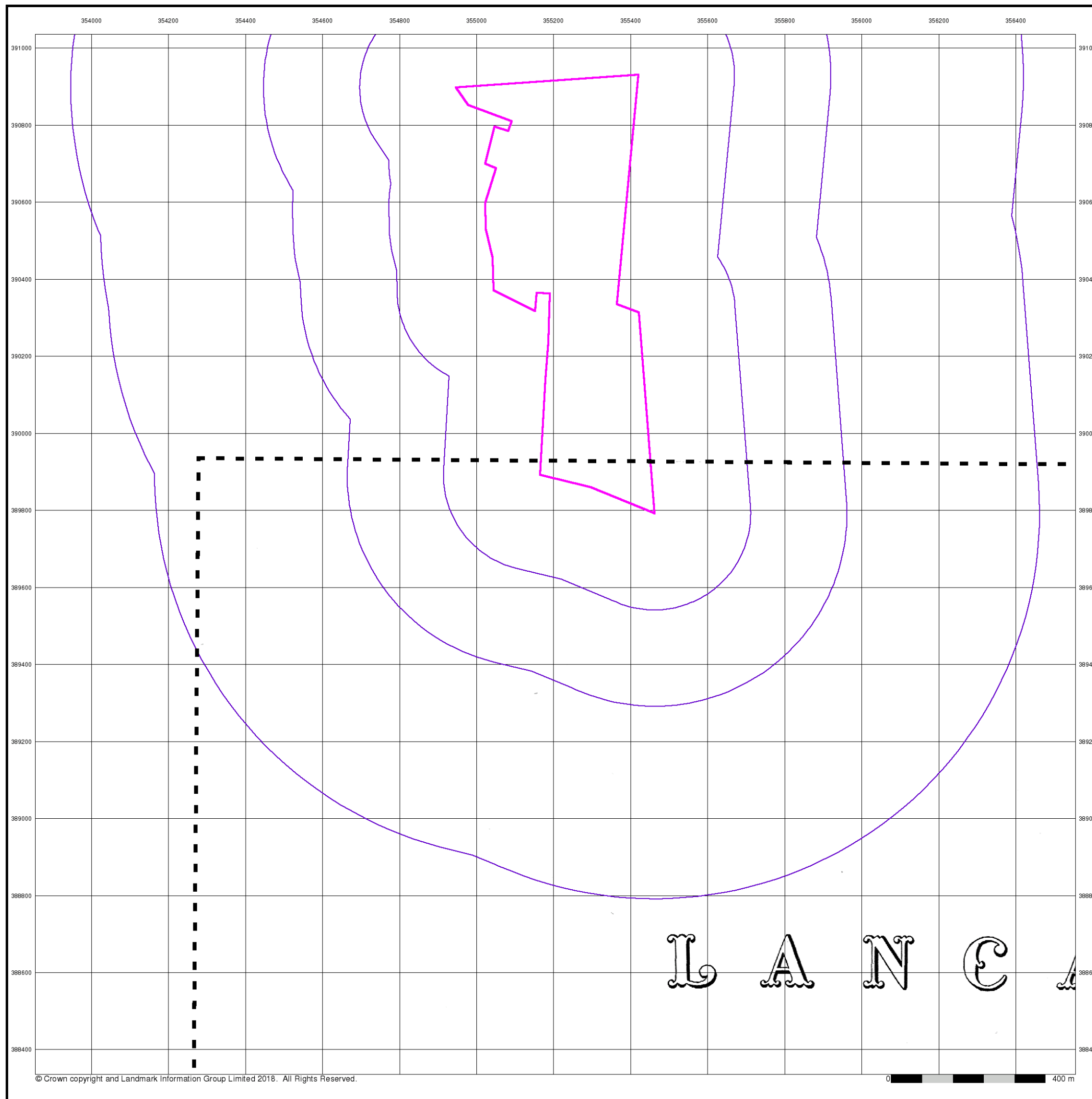
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Search Buffer (m): 1000

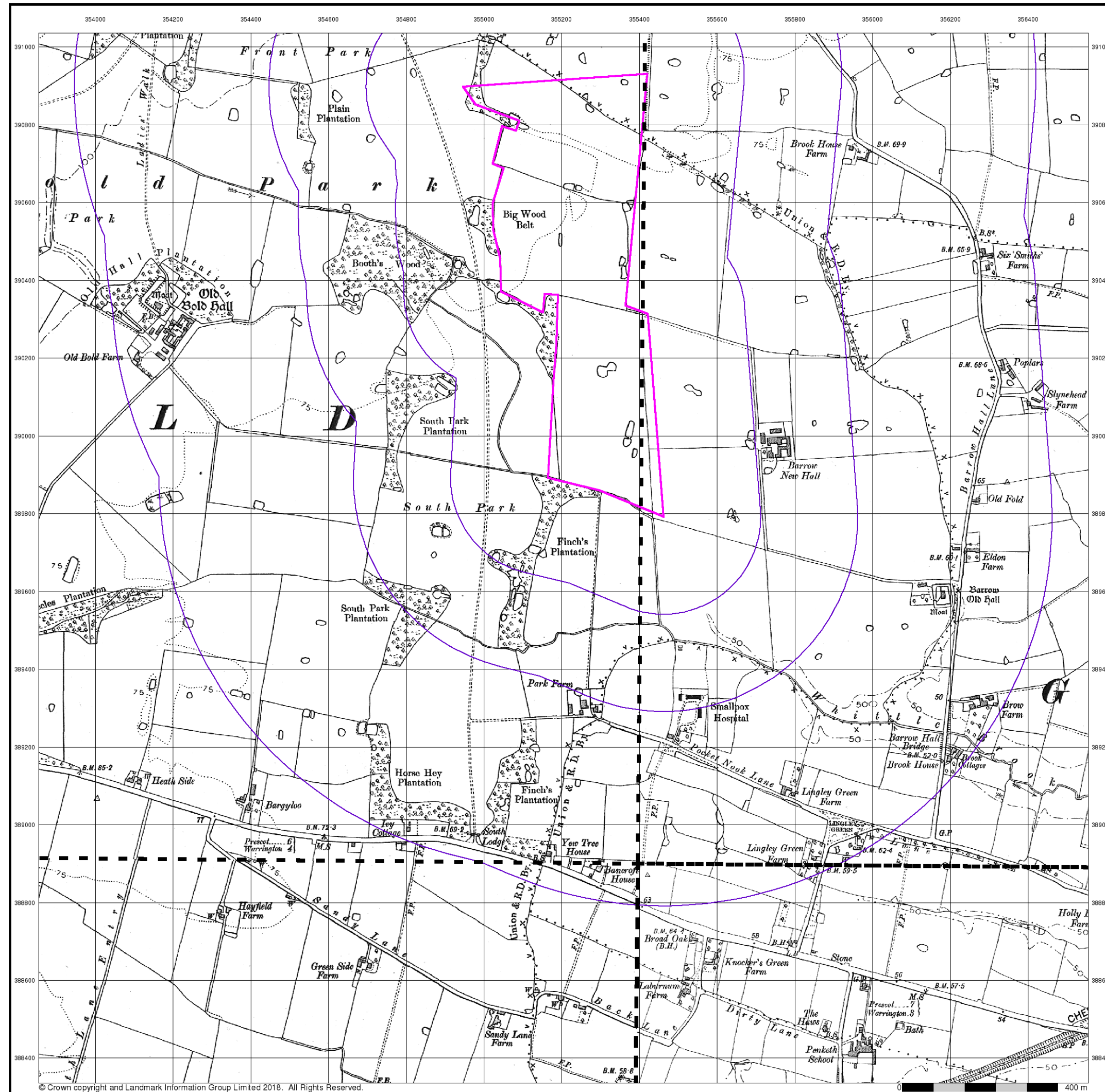
Site Details

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Lancashire And Furness

Published 1908

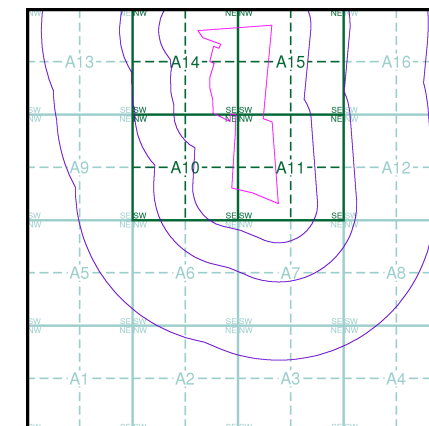
Source map scale - 1:10,560

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)

108SW 1908 1:10,560	108SE 1908 1:10,560
115NW 1908 1:10,560	115NE 1908 1:10,560

Historical Map - Slice A



Order Details

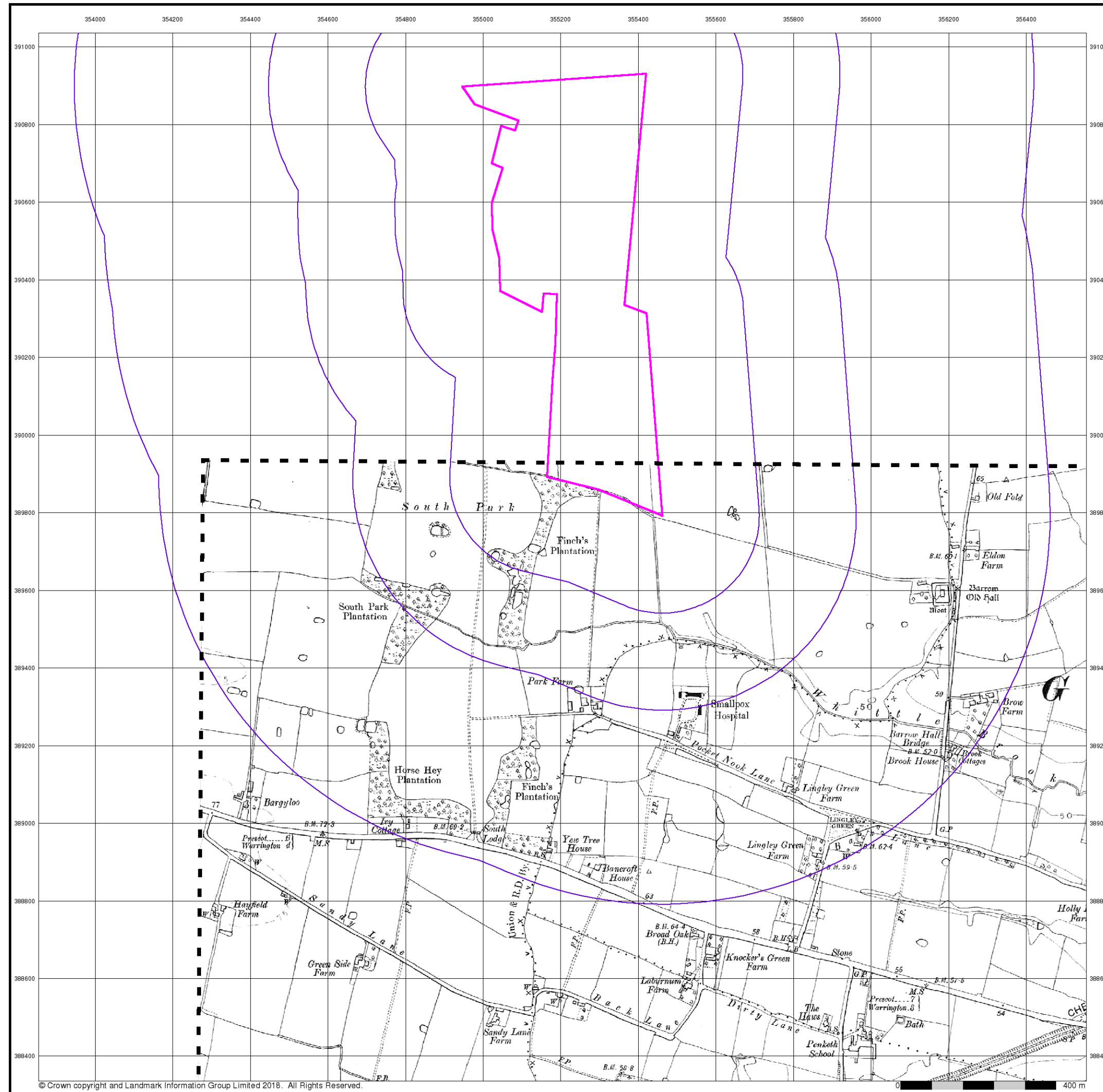
Order Number: 177499144_1_1
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National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

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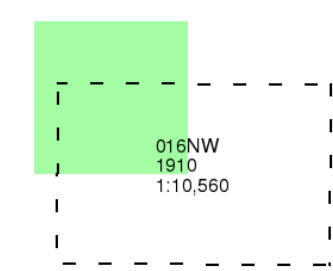
Cheshire

Published 1910

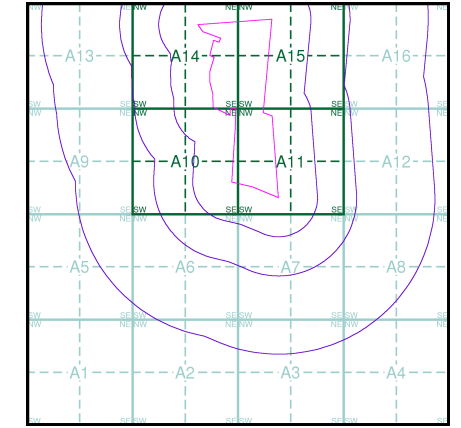
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

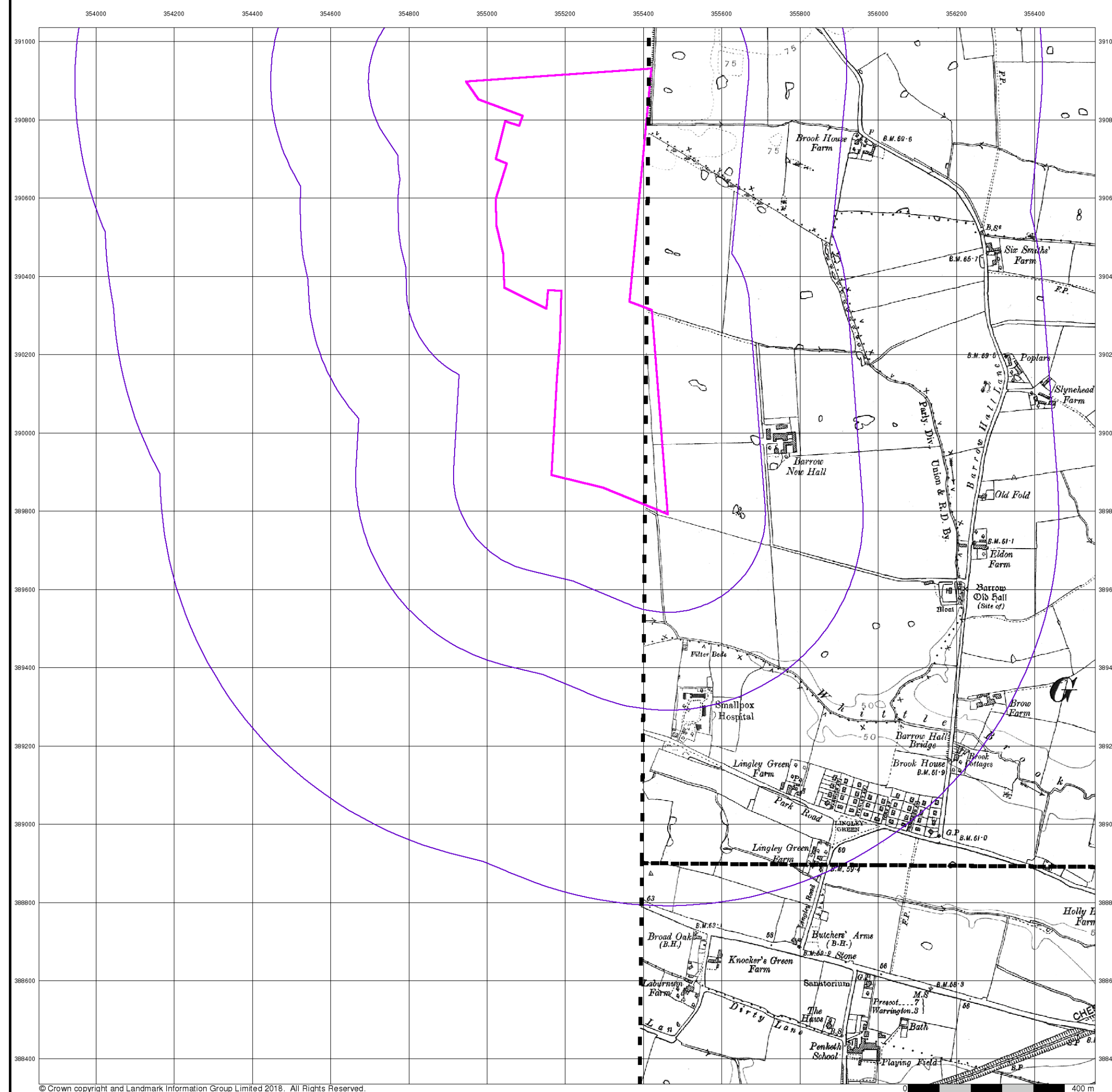
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Site Area (Ha): 33.49
Search Buffer (m): 1000

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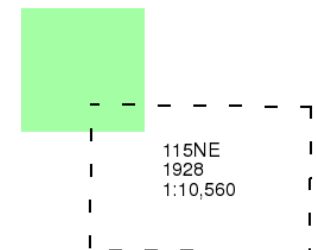
Lancashire And Furness

Published 1928

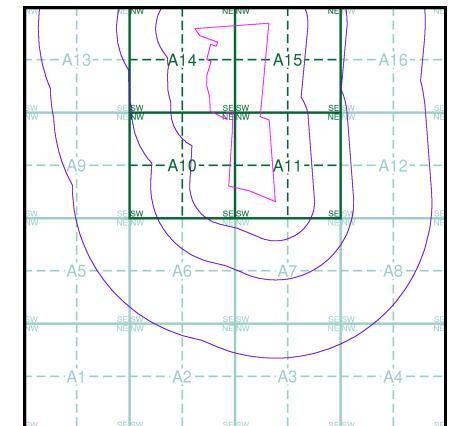
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

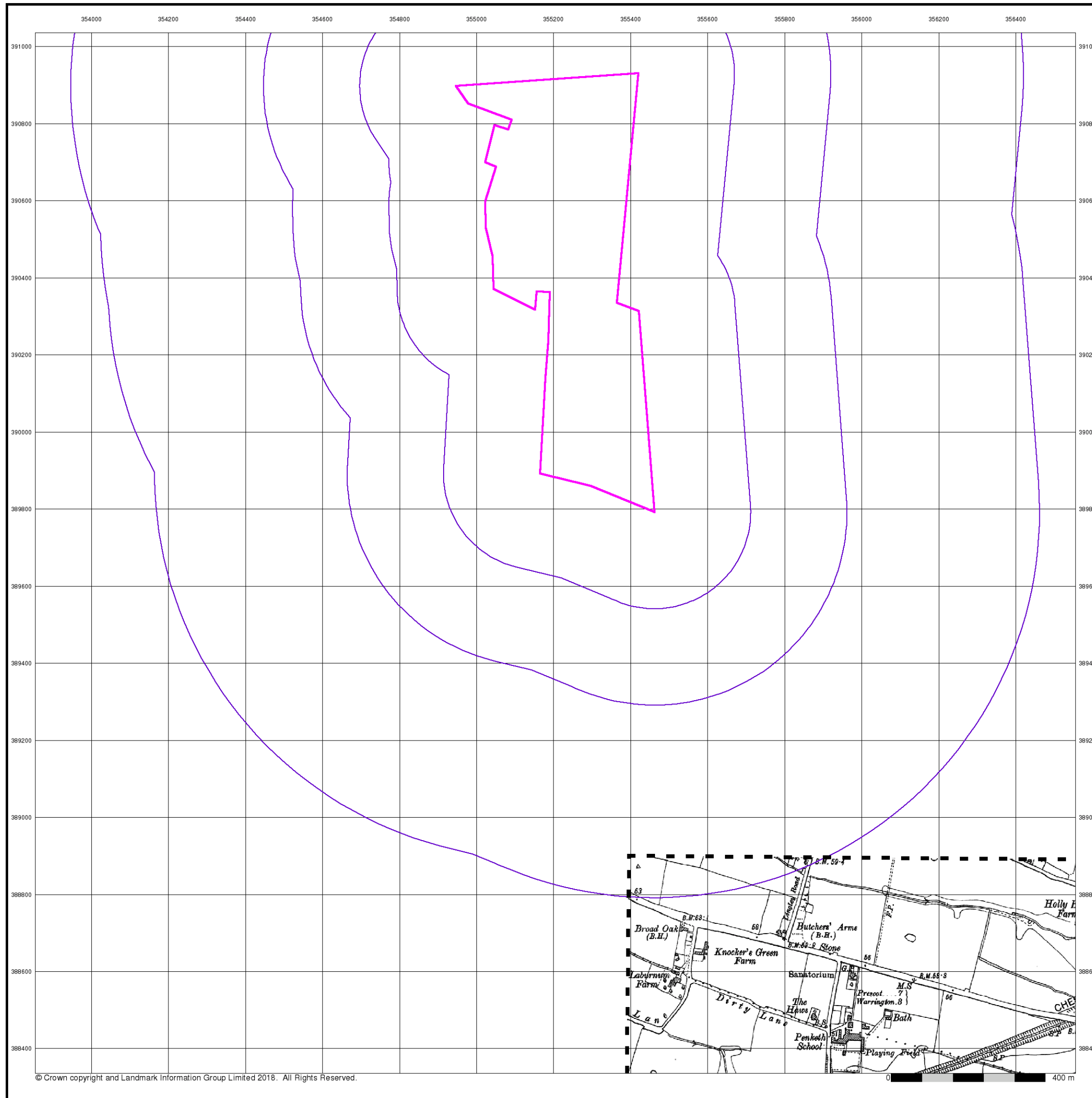
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Site Details

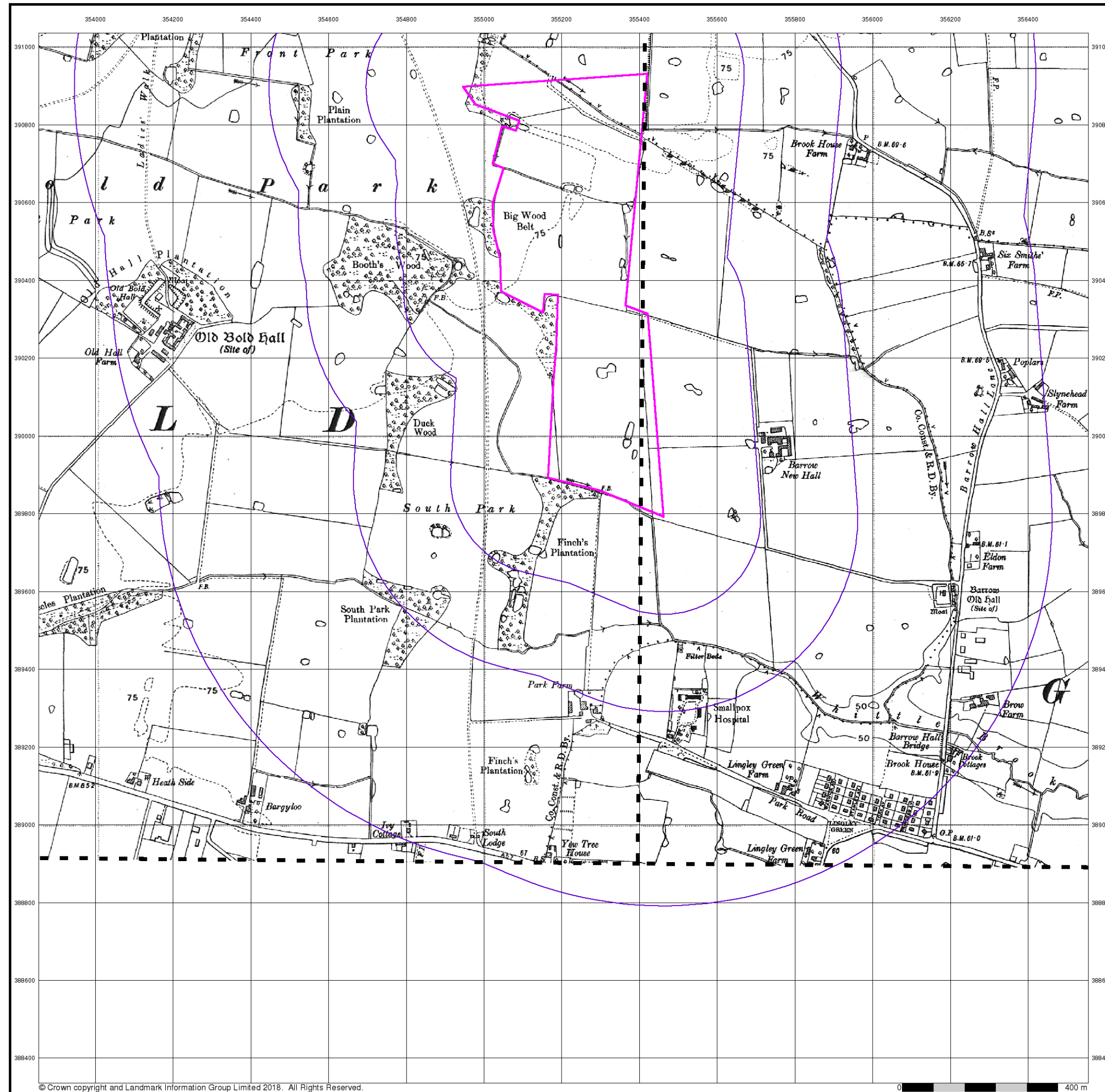
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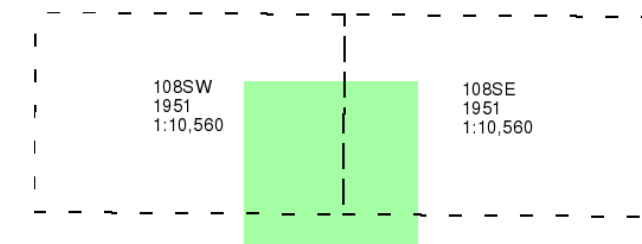
Lancashire And Furness

Published 1951

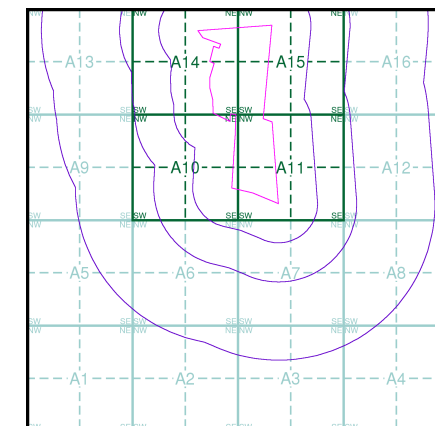
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

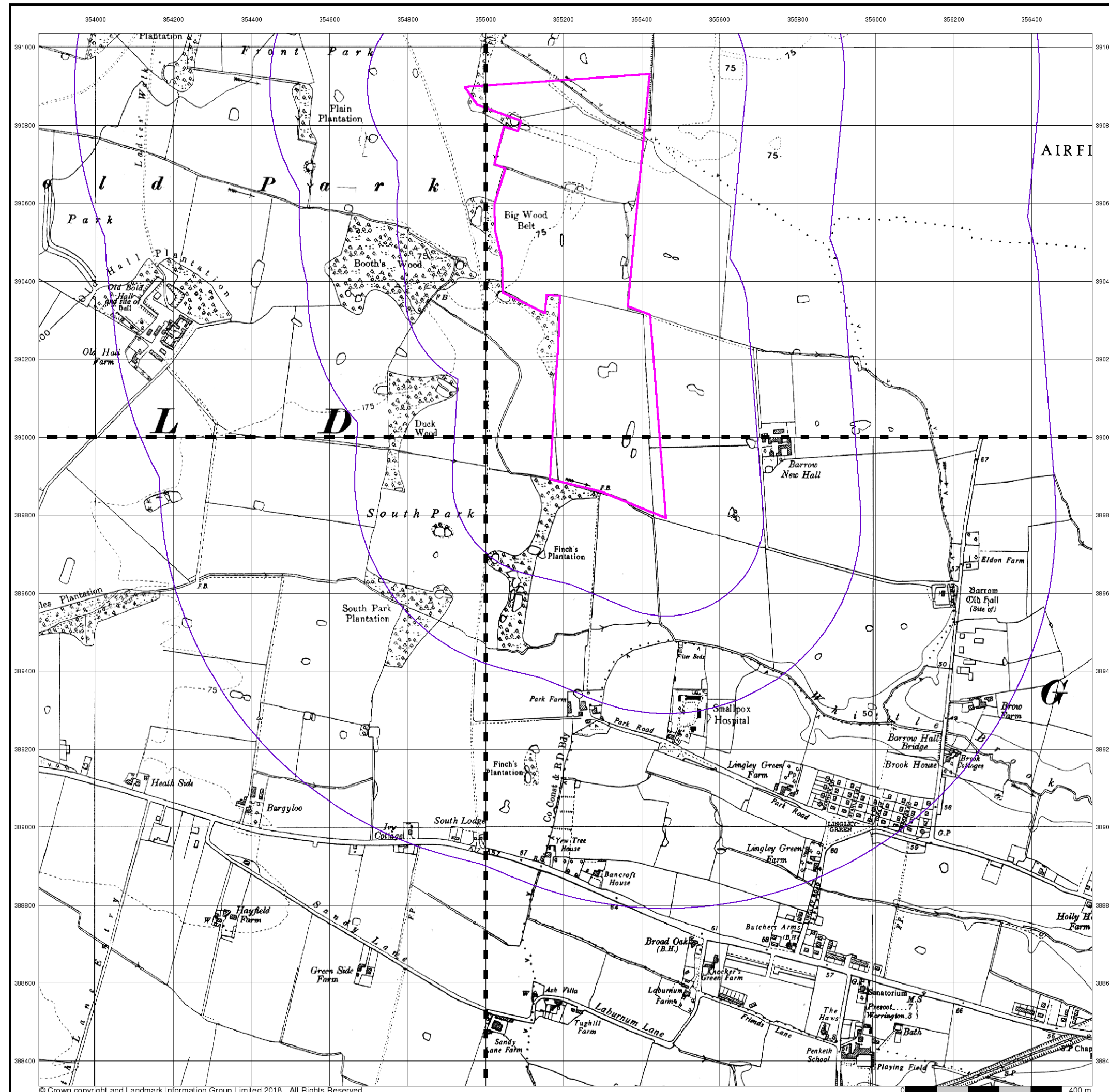
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1954 - 1956

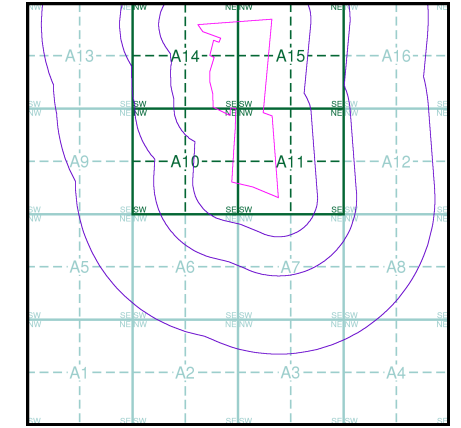
Source map scale - 1:10,000

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)

SJ59SW	SJ59SE
1956	1956
1:10,560	1:10,560
SJ58NW	SJ58NE
1956	1954
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
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Site Details

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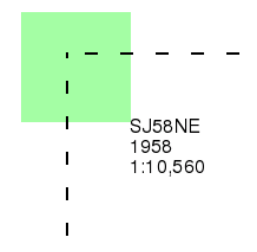


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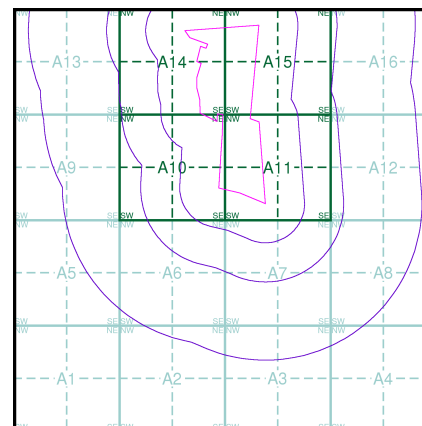


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1965 - 1969

Source map scale - 1:10,000

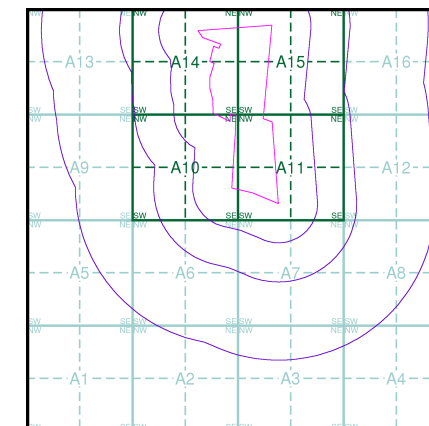
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

SJ59SW	SJ59SE
1965	1965
1:10,560	1:10,560

SJ58NW	
1969	
1:10,000	

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1970 - 1978

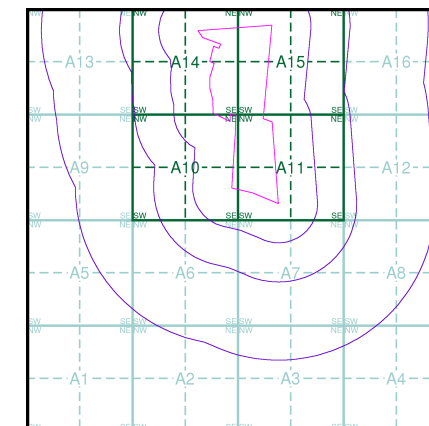
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ59SW	SJ59SE
1974	1978
1:10,000	1:10,000
	SJ58NE
	1970
	1:10,560

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

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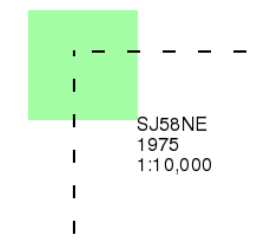
Ordnance Survey Plan

Published 1975

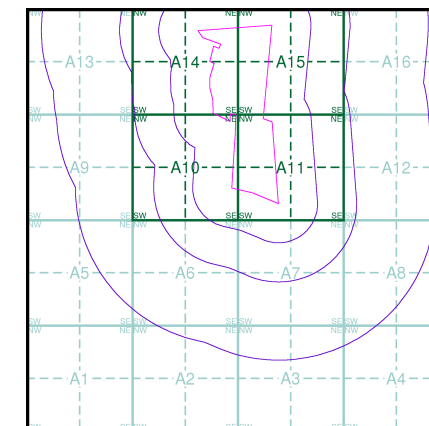
Source map scale - 1:10,000

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

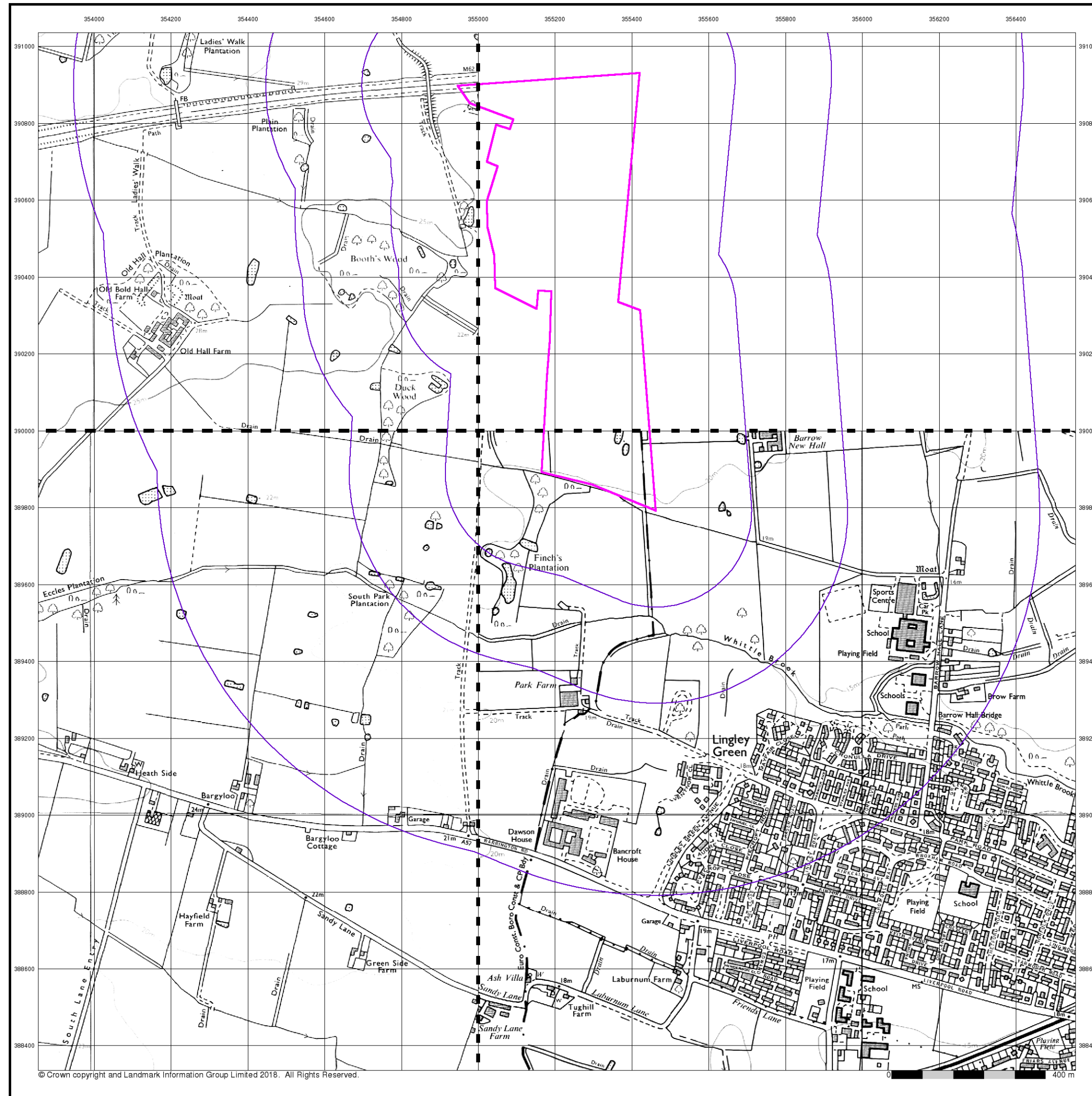
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Ordnance Survey Plan

Published 1982 - 1989

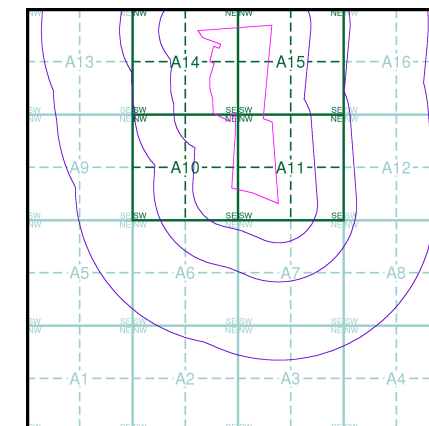
Source map scale - 1:10,000

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)

SJ59SW	1982	1:10,000
SJ58NW	1987	1:10,000
SJ58NE	1989	1:10,000

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

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Warrington

Published 1984

Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

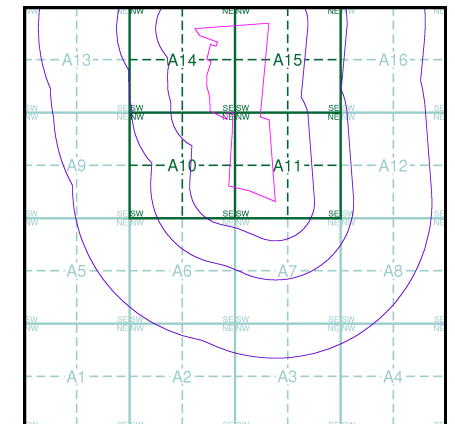
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SJ59SE
1984
1:10,000

SJ58NE
1984
1:10,000

Russian Map - Slice A



Order Details

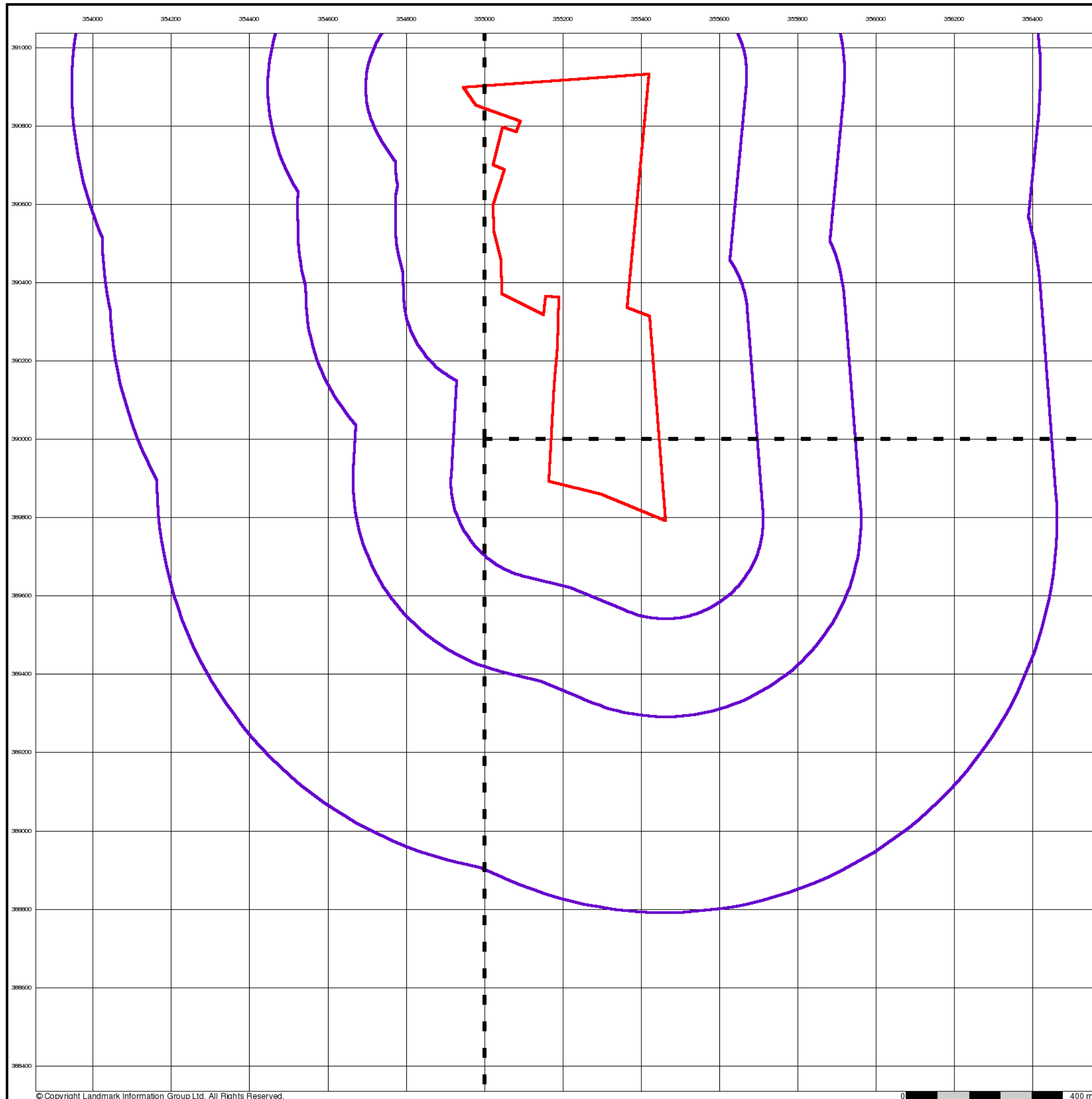
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

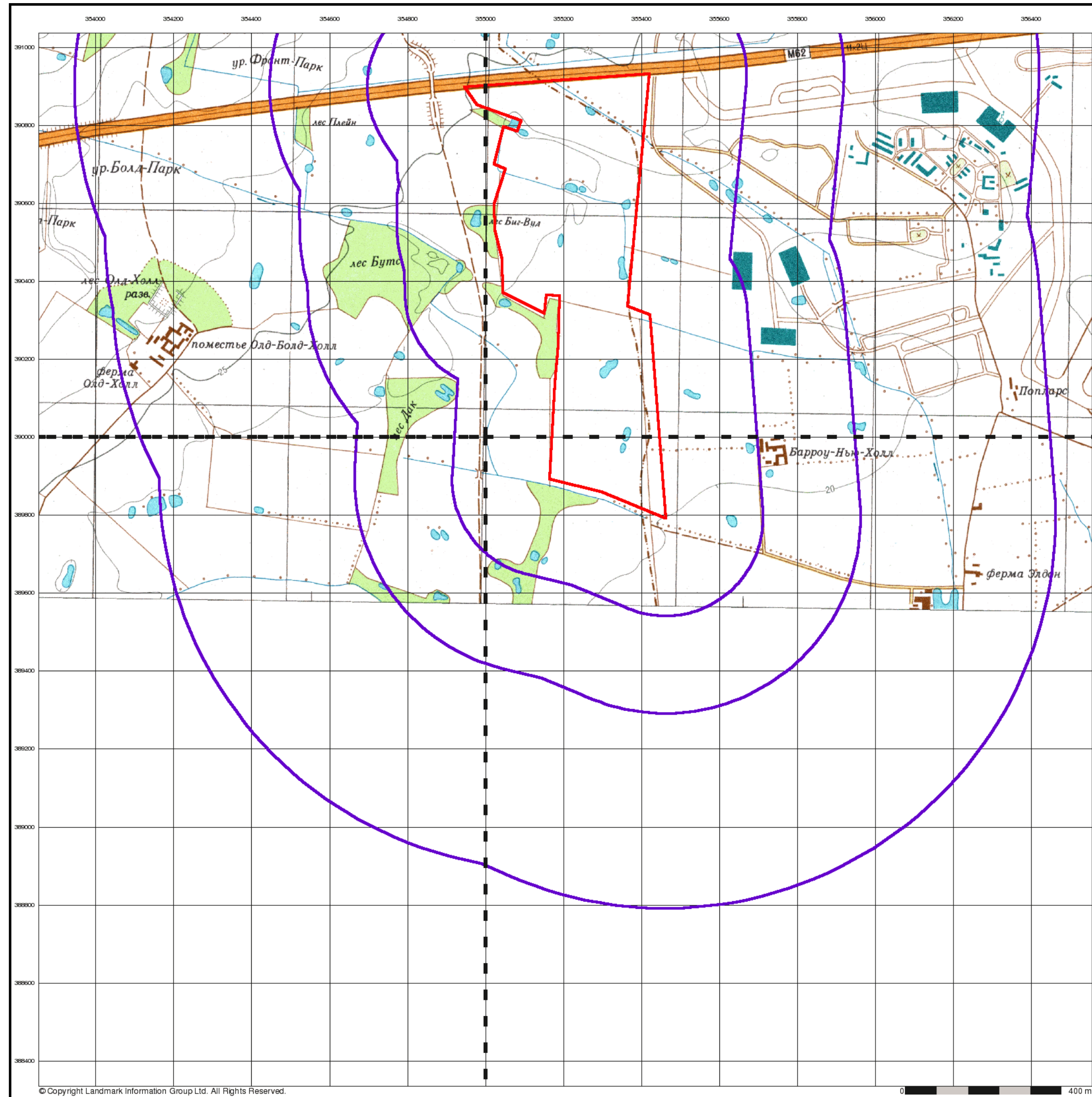
Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

Landmark
INFORMATION GROUP

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





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St Helens

Published 1984

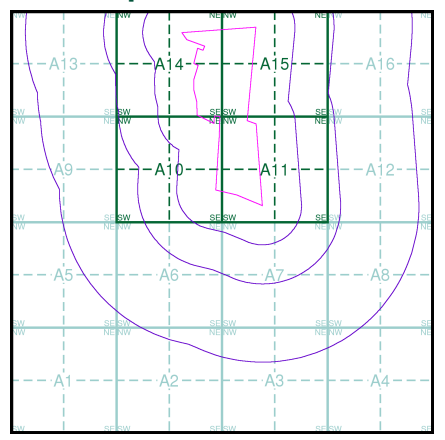
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ59SW 1984 1:10,000	SJ59SE 1984 1:10,000
SJ58NW 1984 1:10,000	SJ58NE 1984 1:10,000

Russian Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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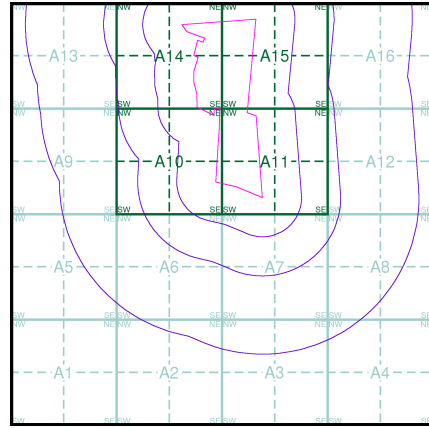
Ordnance Survey Plan
Published 1990 - 1993
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ59SE	1990
1:10,000	
SJ58NE	1993
1:10,000	

Historical Map - Slice A



Order Details

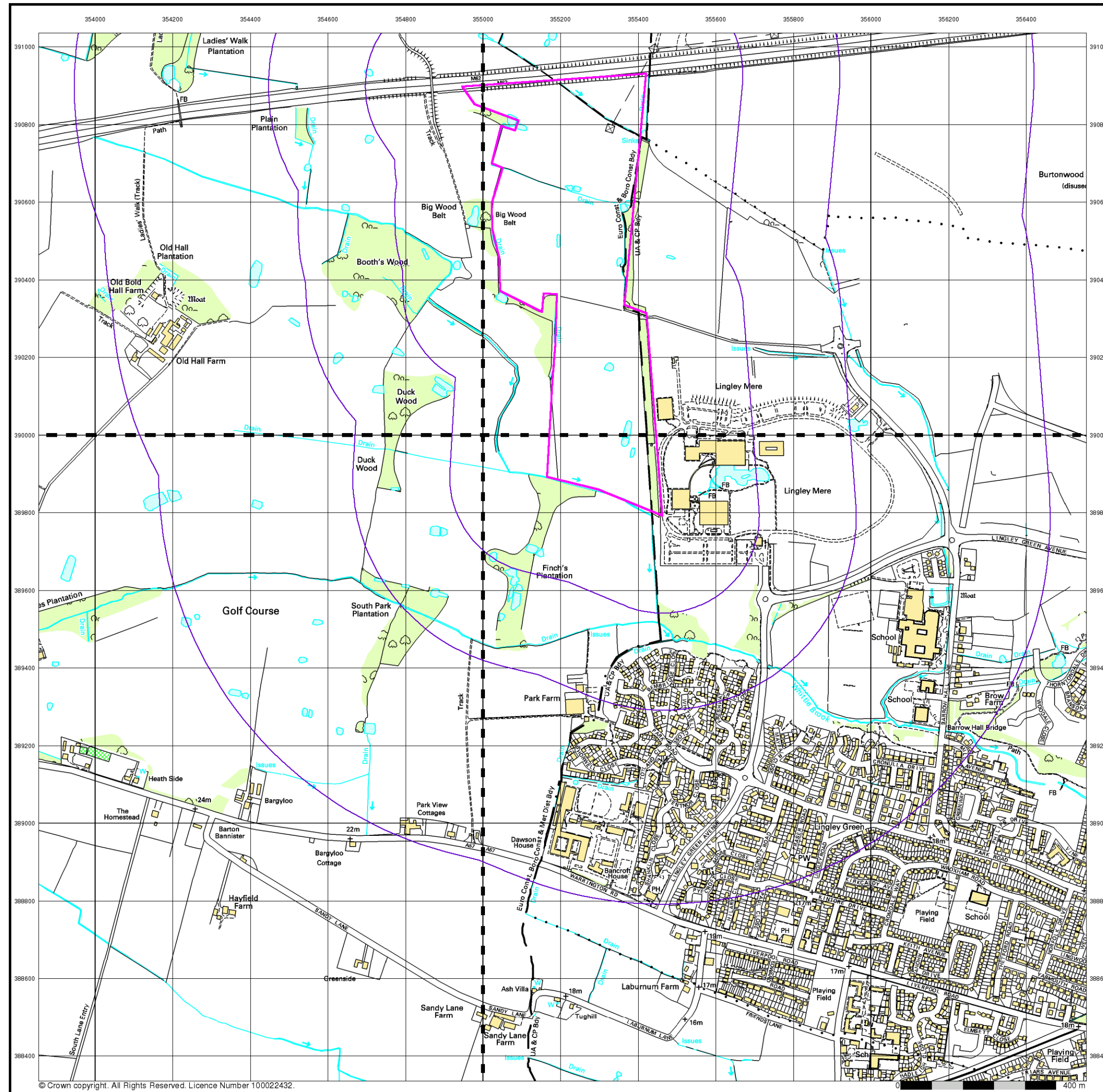
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 1999

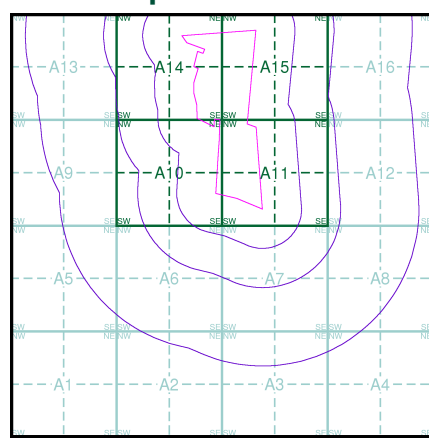
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ59SW	SJ59SE
1999	1999
1:10,000	1:10,000
SJ58NW	SJ58NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

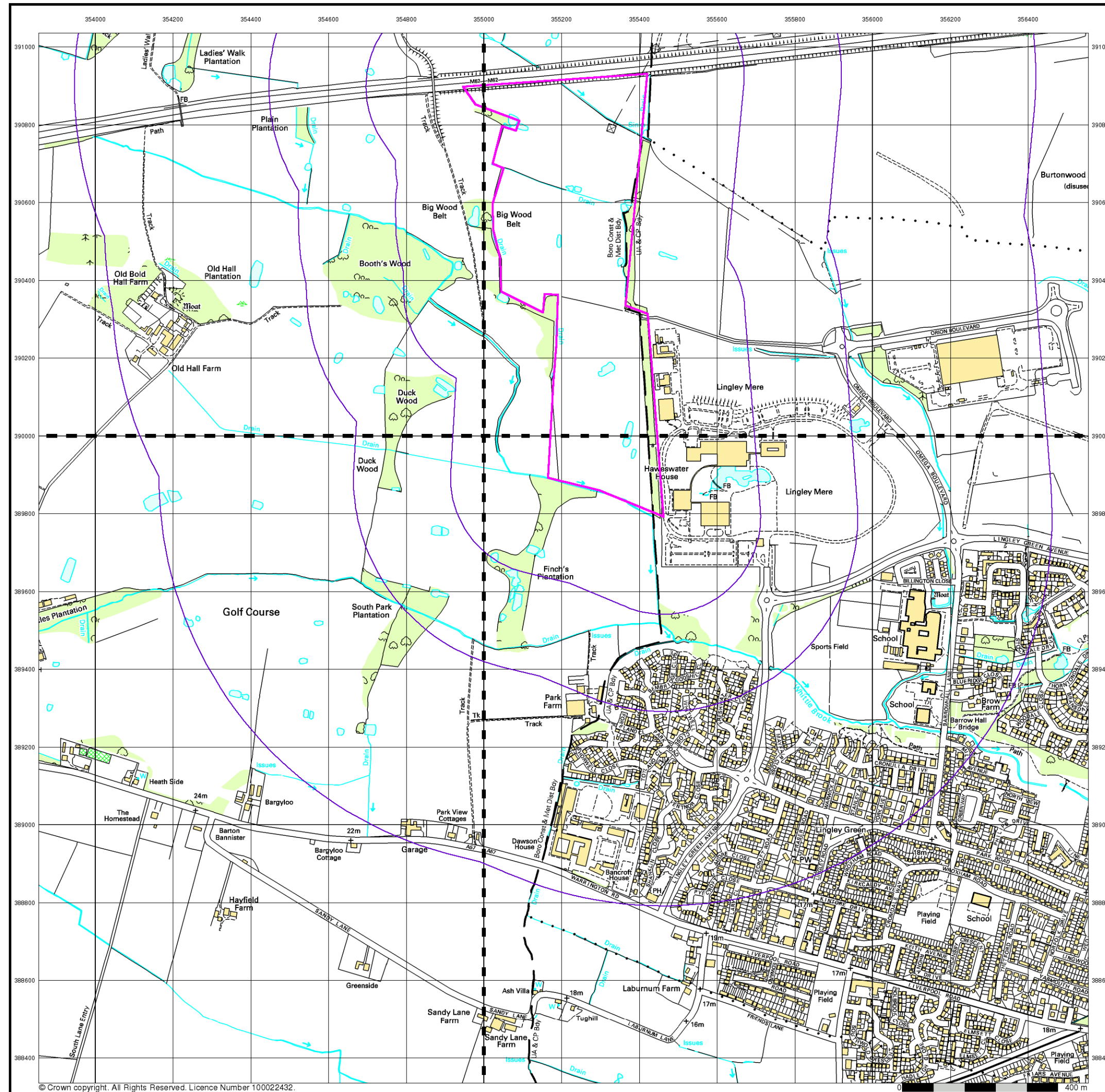
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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



10k Raster Mapping

Published 2006

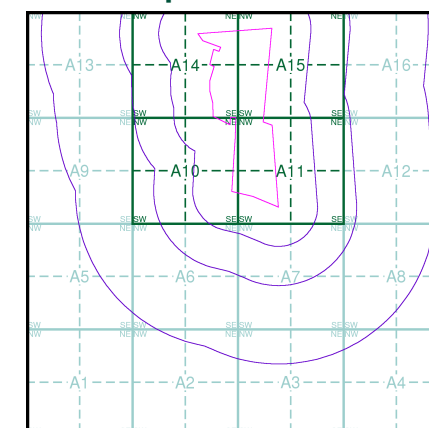
Source map scale - 1:10,000

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)

SJ59SW	SJ59SE
2006	2006
1:10,000	1:10,000
SJ58NW	SJ58NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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VectorMap Local

Published 2018

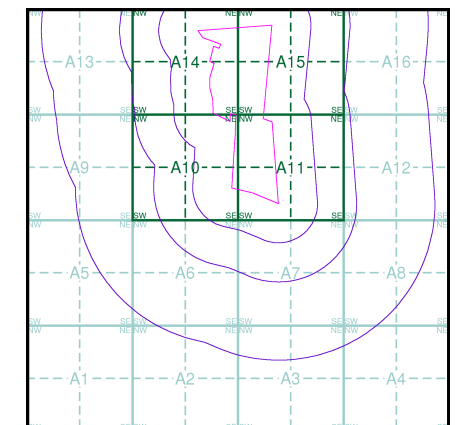
Source map scale - 1:10,000

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)

SJ59SW	SJ59SE
2018	2018
Variable	Variable
SJ58NW	SJ58NE
2018	2018
Variable	Variable

Historical Map - Slice A



Order Details

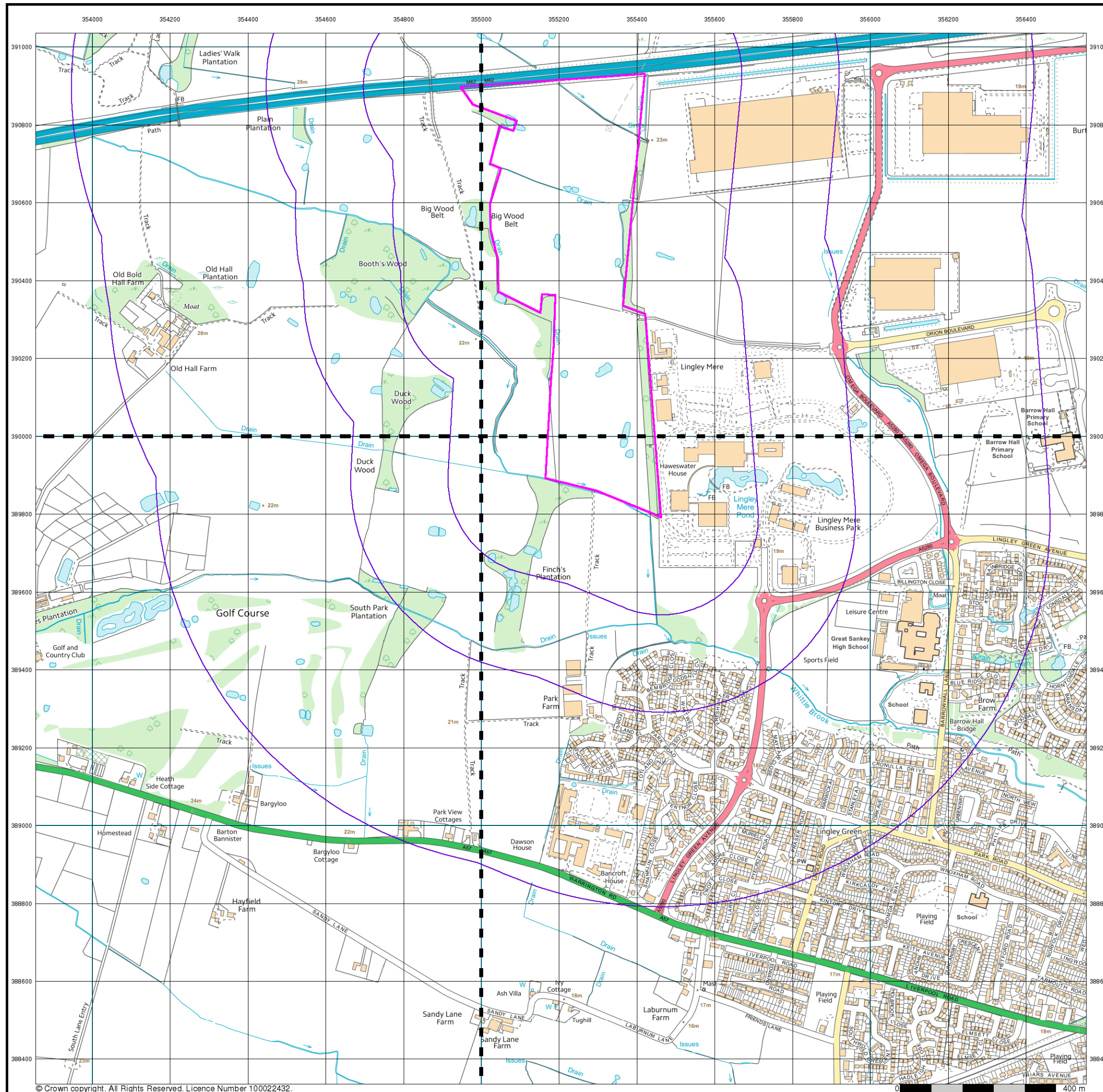
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Customer Ref: 11191042-S11
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Site Area (Ha): 33.49
Search Buffer (m): 1000

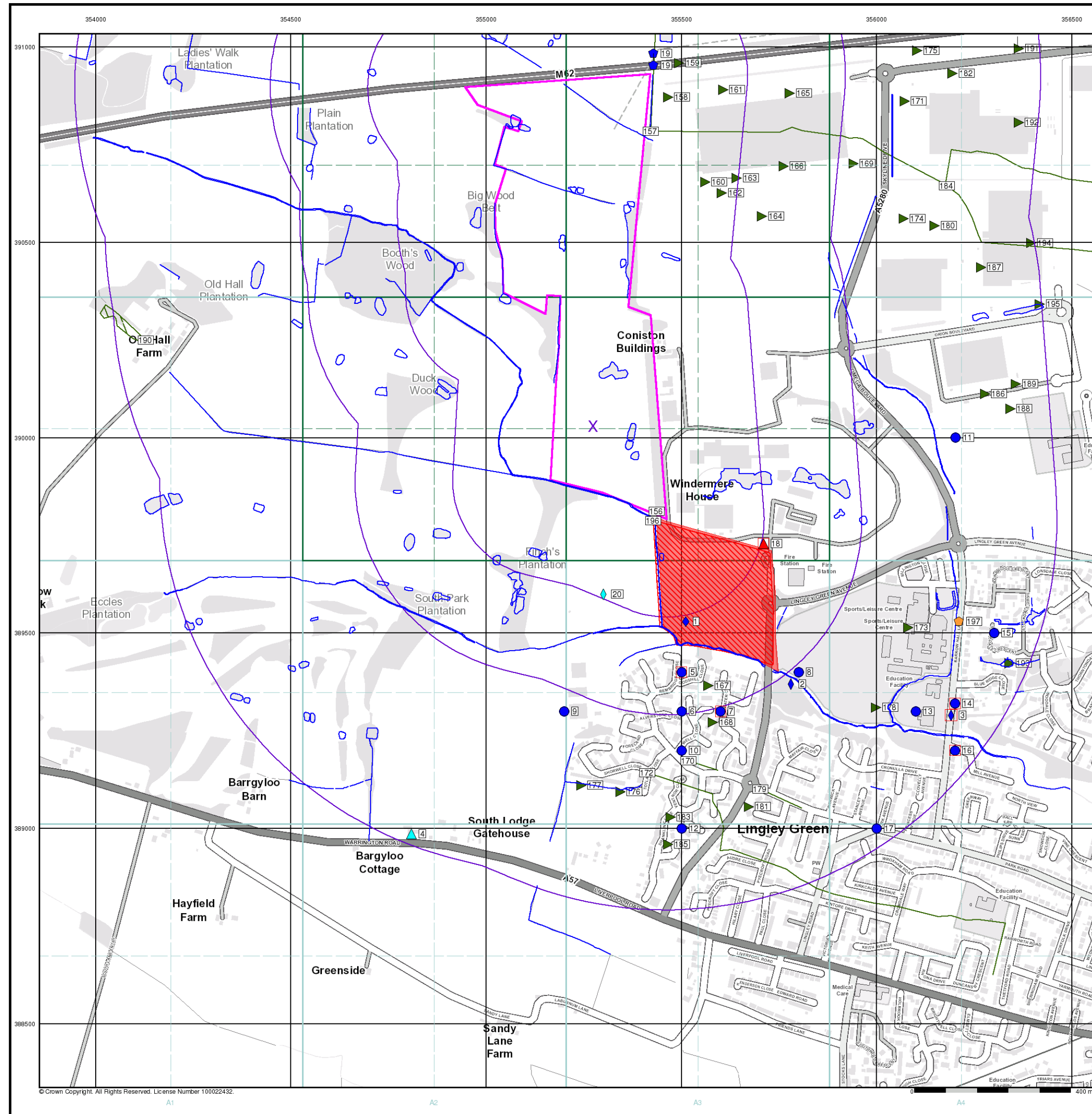
Site Details

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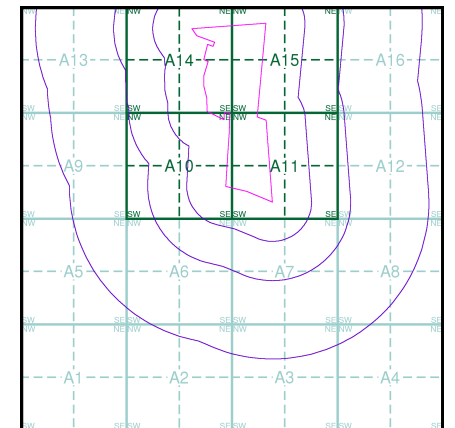


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - 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
 - 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 (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

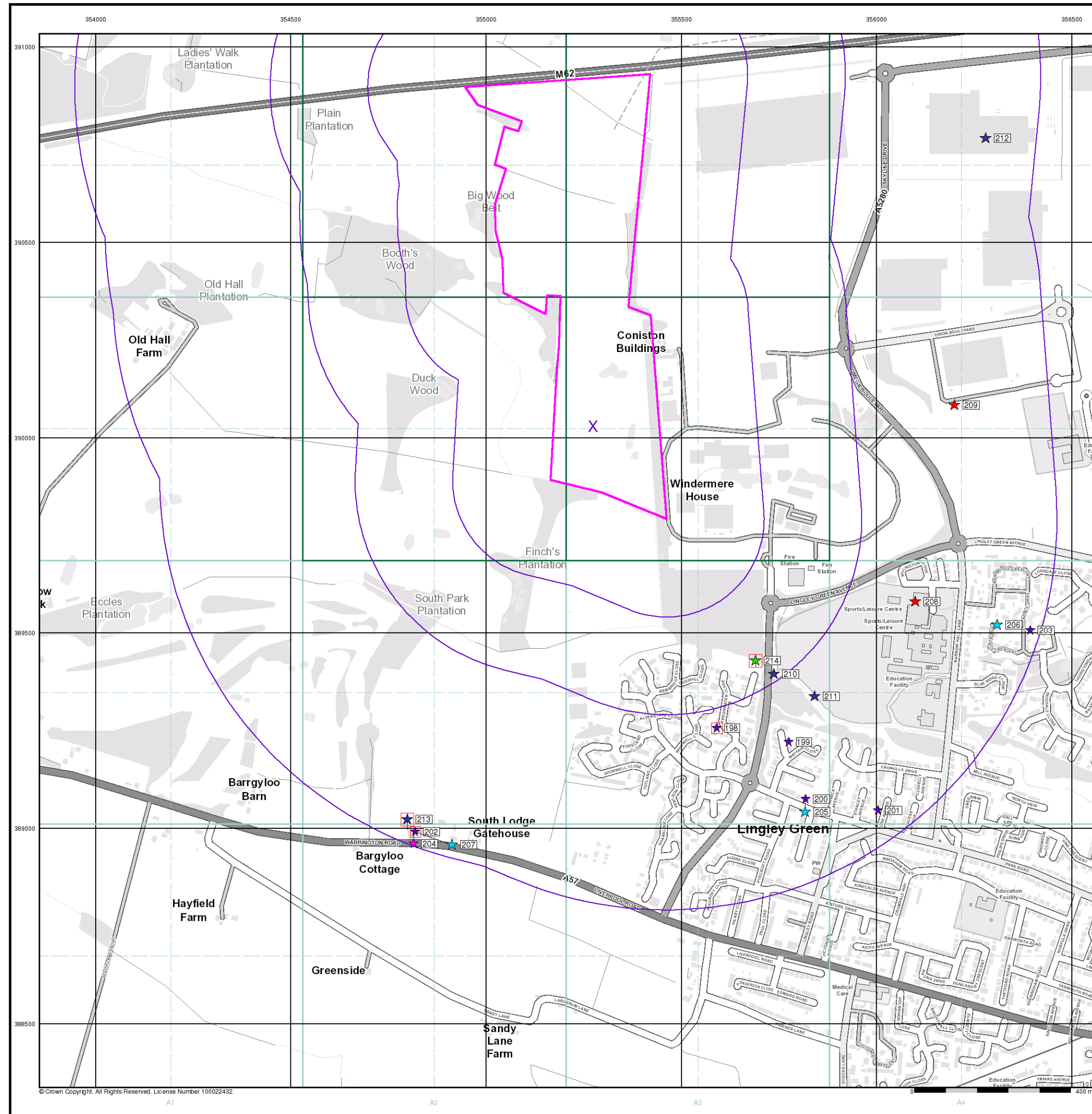
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

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Industrial Land Use Map

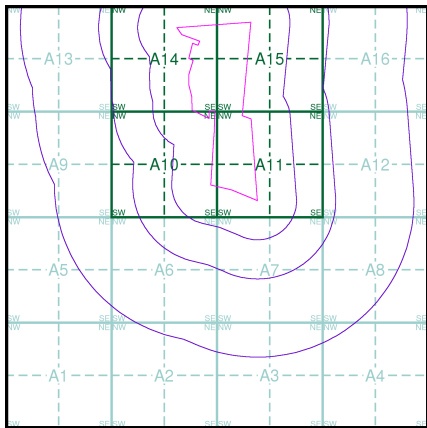
General

- 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

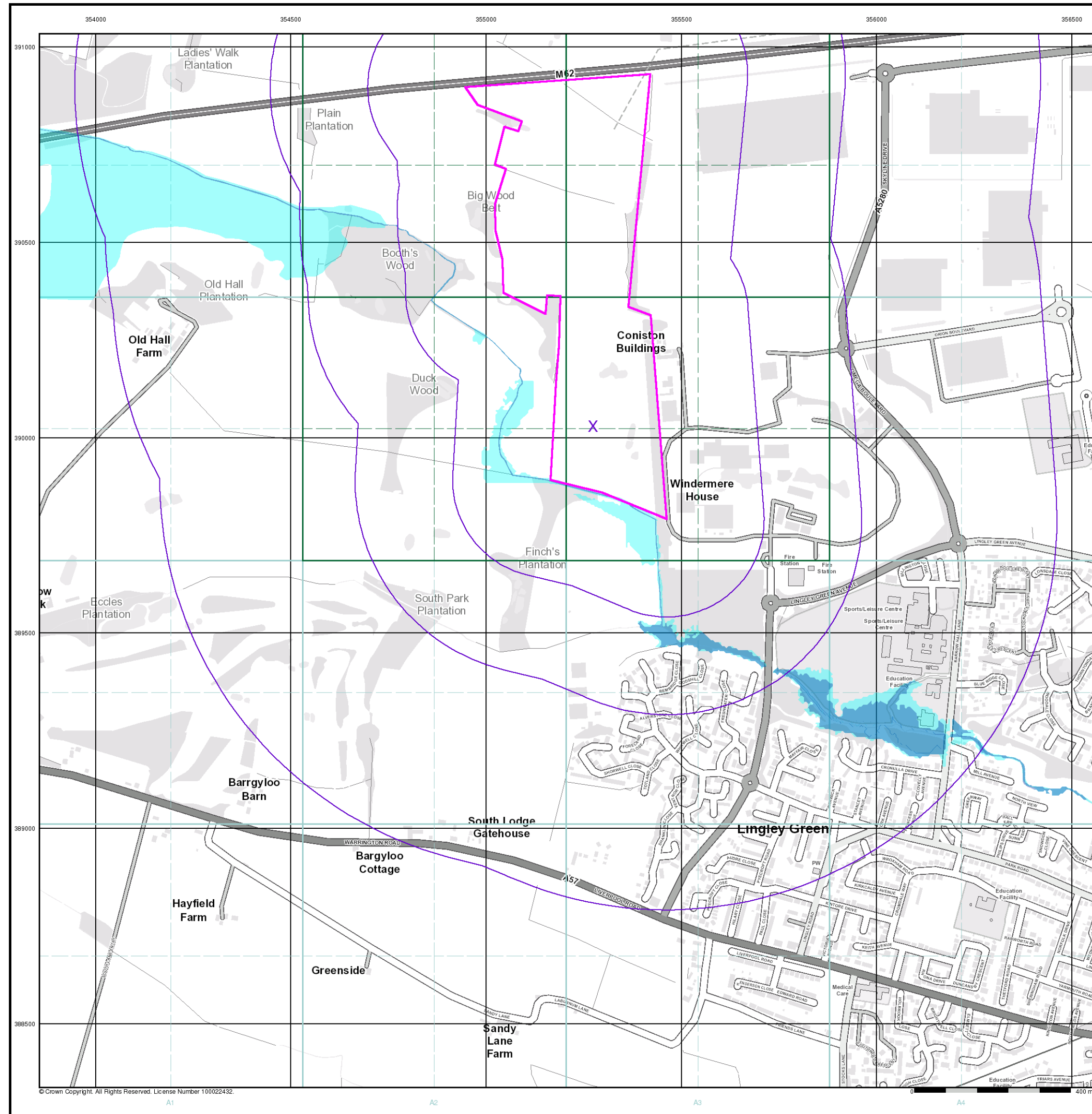
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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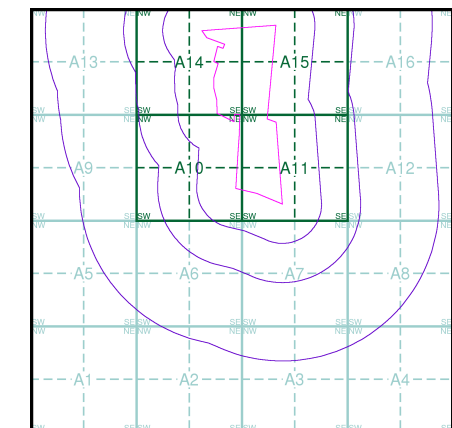
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

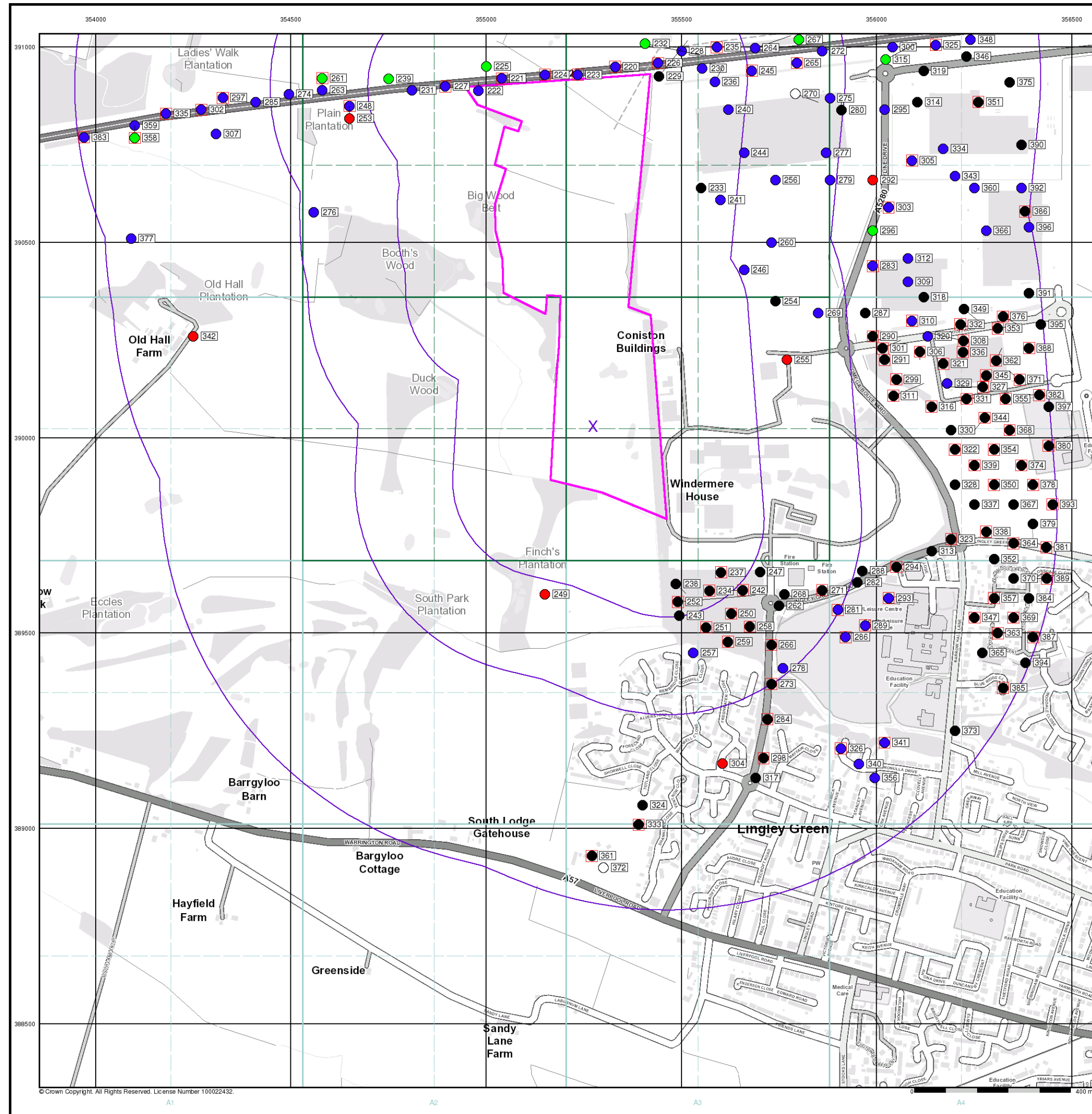
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

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General

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

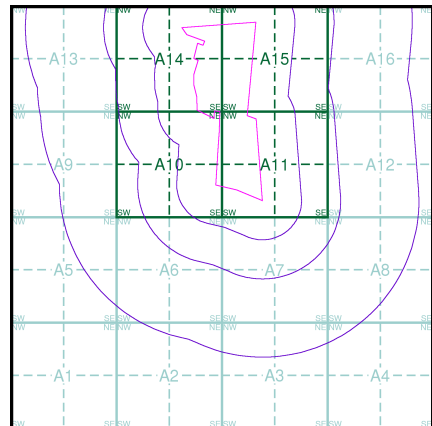
Agency and Hydrological (Boreholes)

- 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: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

Landmark
INFORMATION GROUP

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General

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

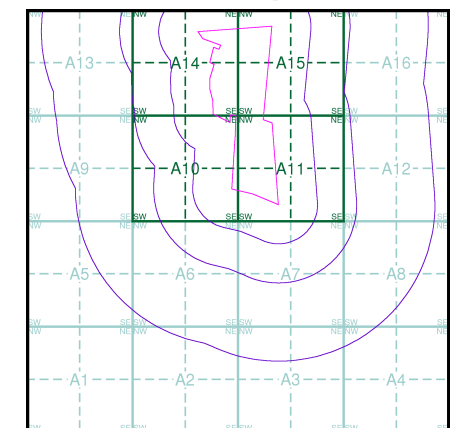
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 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

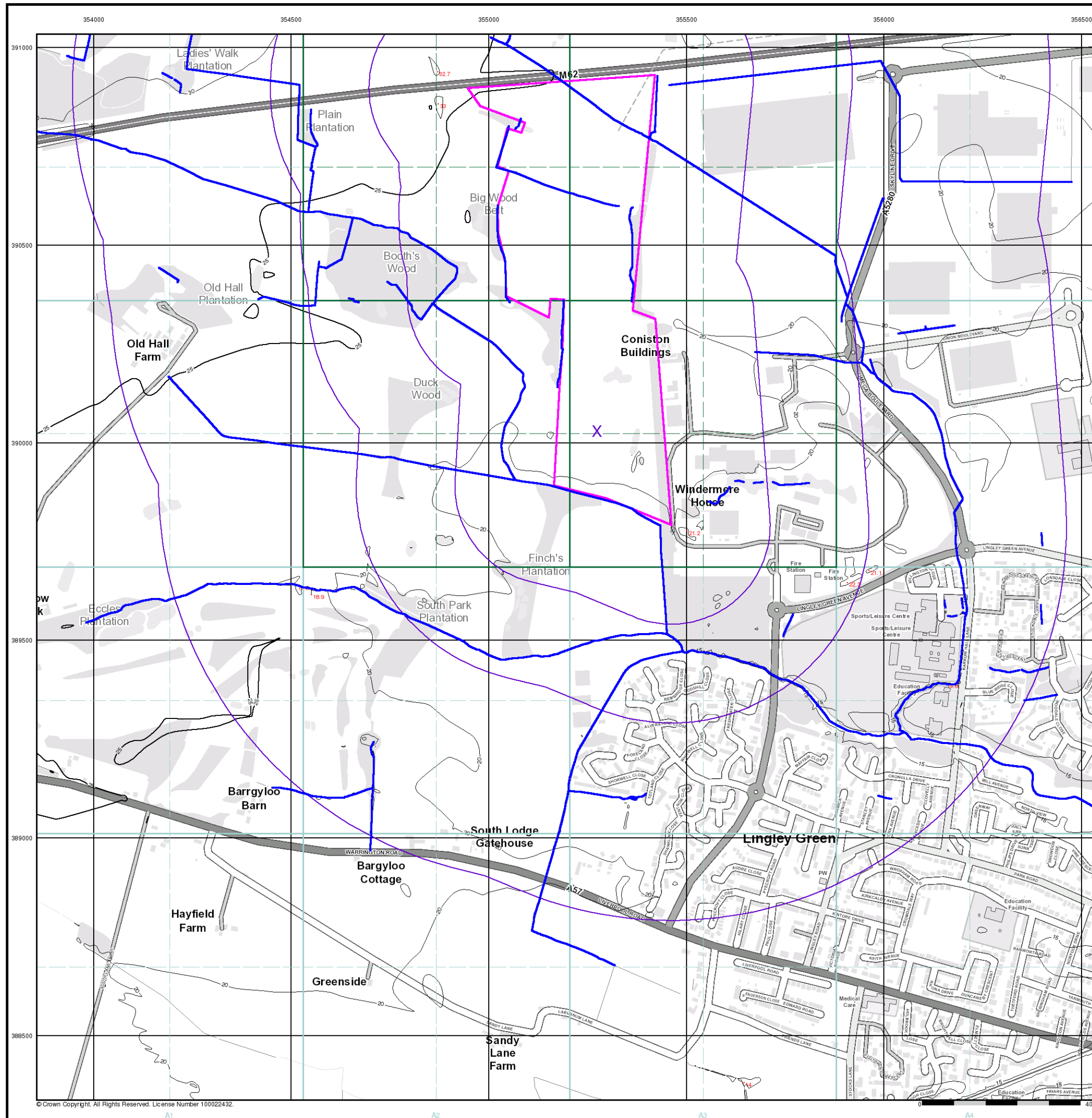
Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

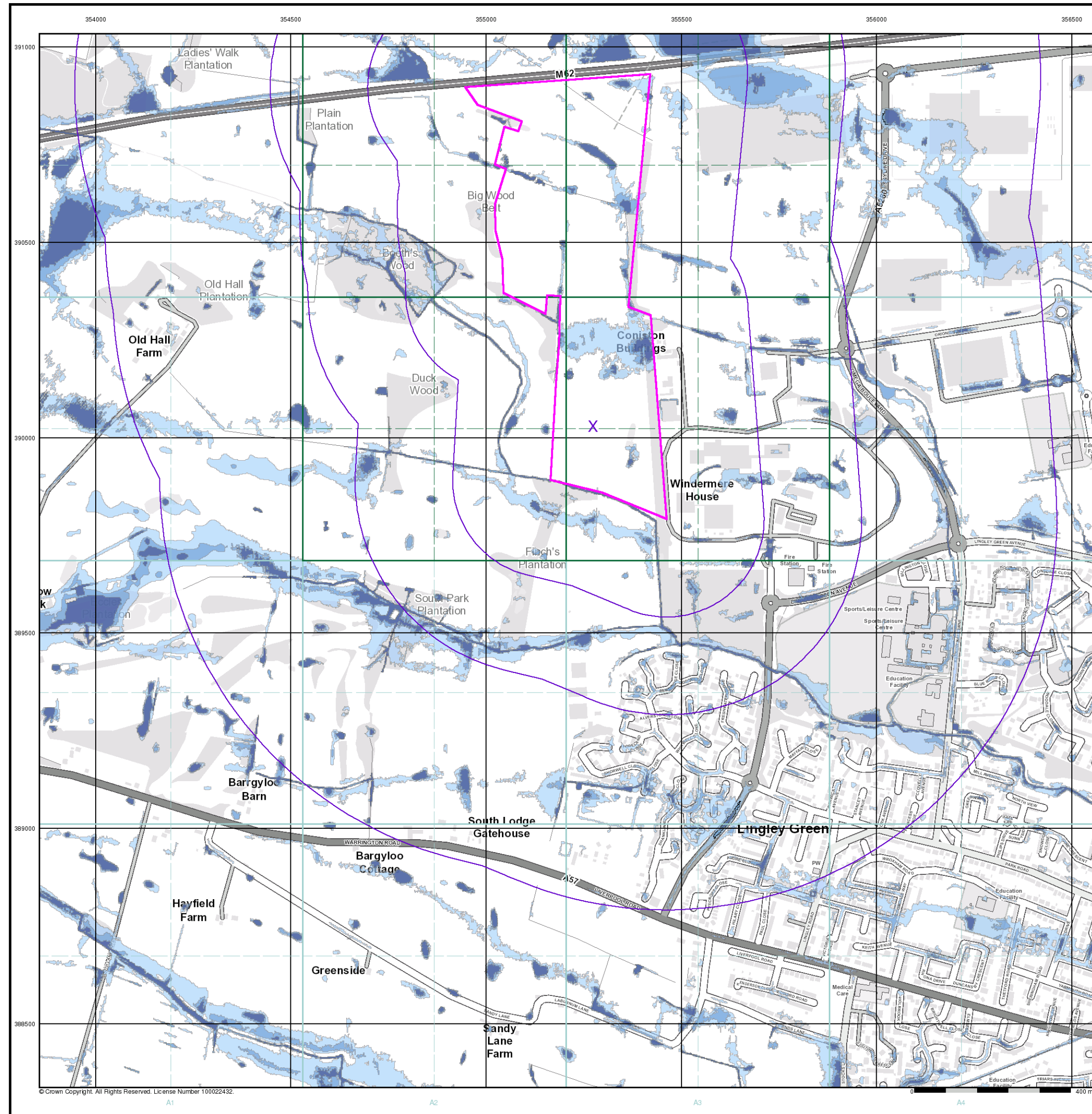
Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk





General

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

Risk of Flooding from Surface Water

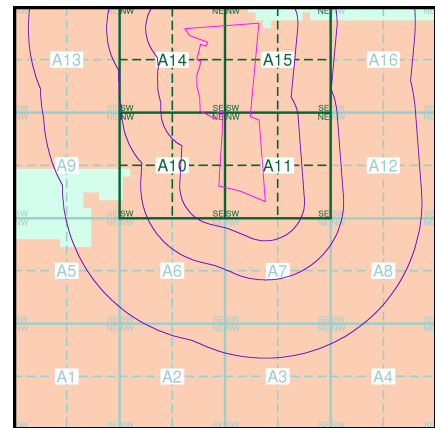
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EANRW Suitability Map - Slice A



Order Details

Order Number: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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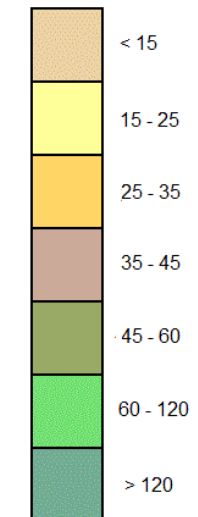


General

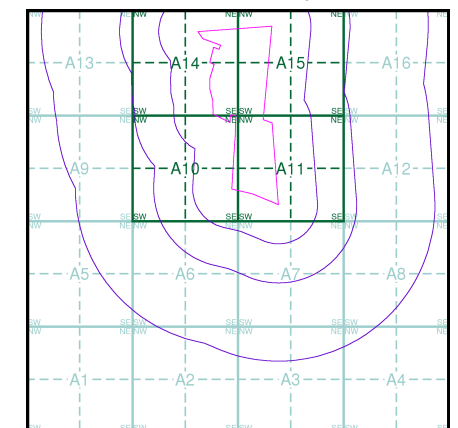
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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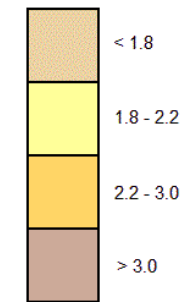


General

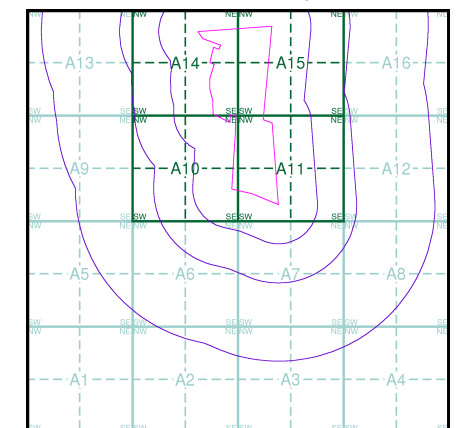
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

Old Bold Hall Farmhouse, Warrington Road, WIDNES, WA8 3XJ

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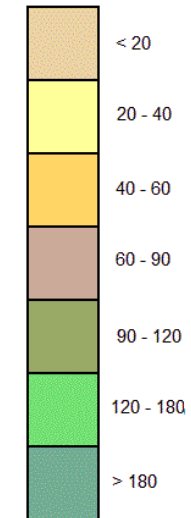


General

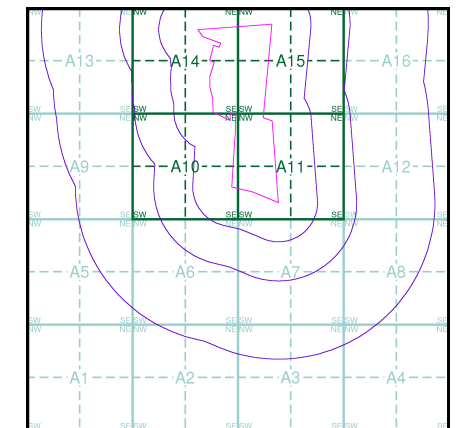
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

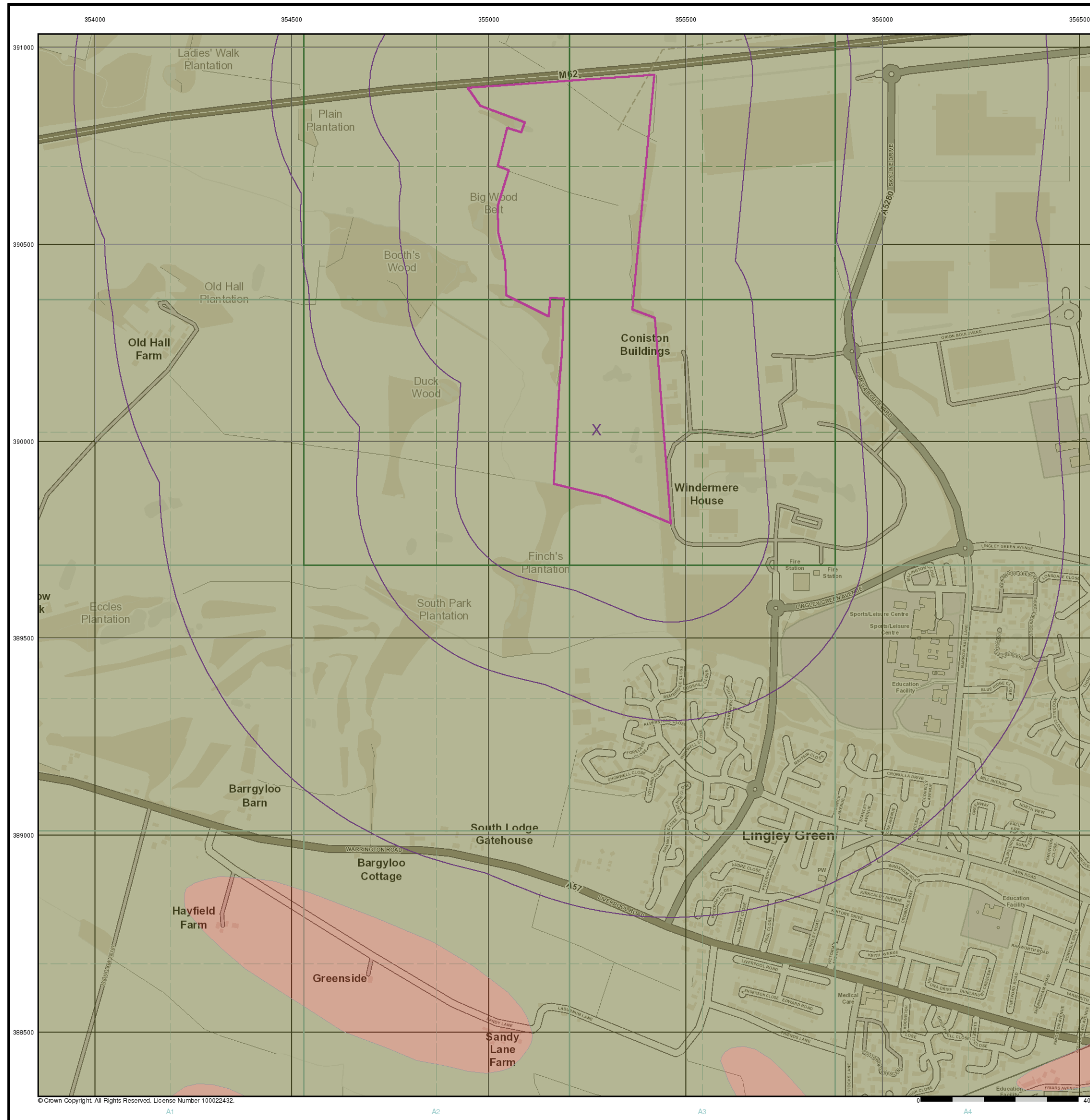
Order Details: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
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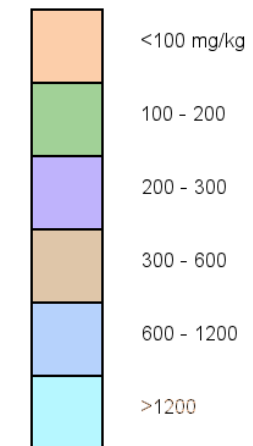


General

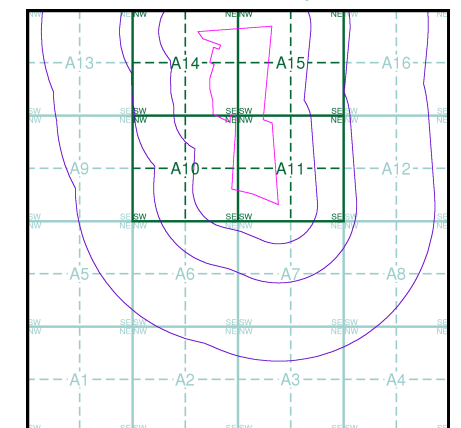
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
Site Area (Ha): 33.49
Search Buffer (m): 1000

Site Details

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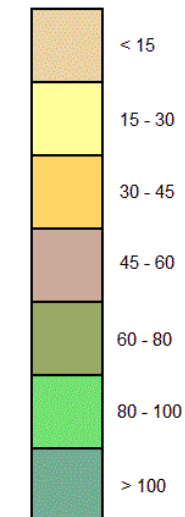


General

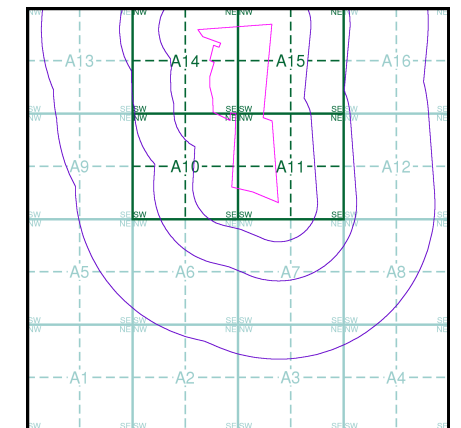
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 177499144_1_1
Customer Ref: 11191042-S11
National Grid Reference: 355270, 390030
Slice: A
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