



STAGE 1 DESK STUDY REPORT

ON

HOPE HIGH SCHOOL

SKELMERSDALE

ON BEHALF OF

**TAWD VALLEY
DEVELOPMENTS LTD/
WEST LANCASHIRE
BOROUGH COUNCIL/
LANCASHIRE COUNTY
COUNCIL**

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CONTENTS

	Page
1.0 Executive Summary	4 - 5
2.0 Terms of Reference	6
3.0 Site Description	7 - 9
• Site Location • On-Site Features • Site Boundaries and Surrounding Land Use • Site History	
4.0 Environmental Setting	10 - 13
• Geology • Coal Mining • Coal Recovery • Hydrogeology • Hydrology • Other Environmental Data	
5.0 Preliminary Risk Assessment and Conceptual Model	14 - 19
6.0 Comments and Conclusions	20 - 26

APPENDICES

Appendix A	Site Location Plan and Aerial Photograph
Appendix B	Site Walkover Photographs
Appendix C	Ordnance Survey Archive Maps
Appendix D	Landmark Geology Maps
Appendix E	Coal Mining Report
Appendix F	Landmark Envirocheck Report
Appendix G	Risk Categorisation Tables
Appendix H	Indicative Proposed Site Layout

1.0 EXECUTIVE SUMMARY

The pertinent conclusions of the report are tabulated below. However, the information below is not exhaustive, and it is recommended the report is read in its entirety.

Proposed Development	Residential dwellings with private gardens.
Site Description	Occupied by an education facility and tennis courts in the west of the site. Remaining site is undeveloped.
Site History	Holland Moor Colliery present in the west from sometime between 1938 and 1951 until sometime between 1967 and 1975. The colliery included several small structures, a spoil heap in the south, and an adit. The site was later developed as part of a large high school, with buildings in the west, and a tennis court.
BGS Geology Map	Glacial diamicton ("Boulder Clay"), overlying Rough Rock Formation (sandstone). However, this is contradicted by Coal Authority records and is more likely to comprise undifferentiated strata (mudstone, siltstone and minor sandstone), and two coal seam outcrops crossing the site. No faults on/near the site.
Coal Mining	Both recorded and potential unrecorded shallow workings are indicated. This will need to be assessed by a rotary drilling rig. There is also a mine adit and a shaft on the site, both of which are recorded as being treated in 1973. Abandonment plans should be obtained from The Coal Authority, along with any records in relation to the mine entry treatment. Areas of deep fill (unrecorded opencast) and bell pits are possible.
Hazardous Gases	No radon protection measures required. Coal outcrop on site, shallow workings, and mine entries. Gas wells will need to be installed and monitored. Properties may require vents and floor membranes.
Ground Conditions	Possibility of made ground. Probable stony glacial clays with granular content up to boulder size, overlying residual soils derived from in-situ weathering of underlying geology.

Contamination	Potentially, from possible made ground. Site investigation required. Asbestos survey of existing buildings required, unless already available.
Foundations	Strip or trench fill foundations may be acceptable, subject to the thickness of any made ground. Drilling and grout injection of mine workings is likely to be required. Reinforced where grouting is carried out. Rafts and piles may be required in some areas. Site investigation required. Tree survey required due to clays.
Excavations	Likely to be stable within natural strata, but instability can be expected within any made ground. Shallow groundwater may be present.
Soakaways	Disposal of surface water using soakaways is not considered to be practical on the site. Full details have been reported separately.
Road Pavement	A design CBR value of at least 2% may be applicable on the natural strata, below any soft spots and at equilibrium moisture content.

2.0 TERMS OF REFERENCE

- 2.1 Tawd Valley Developments Limited is considering developing the site at Hope High School, in Skelmersdale with residential dwellings. It was considered appropriate to implement a desk study to provide information to aid the planning process, viability assessment, and design of any subsequent development.
- 2.2 ARP (North West) Ltd was appointed by Tawd Valley Developments Limited to implement the report, which involved a desk study assessment of the geological and coal mining aspects, site history, potential contamination sources and receptors, and other environmental aspects including radon gas and indicative flood risk. An Envirocheck Report from Landmark Information Group, and a Coal Mining Report were obtained to facilitate the study.
- 2.3 This report is intended to cover a wide scope of geotechnical issues, along with a Stage 1 Risk Appraisal of potential contaminant source - pathway - receptor linkages.
- 2.4 This report includes a site walkover survey which was undertaken on 22nd January 2020.
- 2.5 The report has been prepared for the use and reliance of Tawd Valley Developments Ltd, West Lancashire Borough Council, and Lancashire County Council only. The report shall not be relied upon or transferred to any other parties without the written agreement of ARP (North West) Ltd. For the avoidance of any doubt, where ARP (North West) Ltd enters into a letter of reliance for the benefit of a third party, that third party will be permitted to rely on the report. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party without ARP (North West) Ltd.'s consent.
- 2.6 Attention is drawn to the requirements of the Construction Design and Management Regulations 2015, and in particular the duties and obligation of the Client.

3.0 SITE DESCRIPTION

Site Location

- 3.1 The site, which is centred on Ordnance Survey Grid Reference 350290, 405620, is located at Hope High School, in Skelmersdale.
- 3.2 A site location plan and aerial photograph are presented in Appendix A.
- 3.3 A walkover survey was conducted on 22nd January 2020. Photographs are presented in Appendix B and details obtained from the walkover are discussed below.

On – Site Features

- 3.4 The site is an irregular shaped piece of land extending to an area of 2.8 hectares, with overall dimensions of approximately 290m (north - south) by 170m (east - west).
- 3.5 Plans and publicly available aerial and street view photographs have been assessed in conjunction with a site walkover. Hope High School and associated hardstanding, currently disused and unoccupied, is present in the western area of the site. The school is of brick construction, with a corrugated metal roof. A car park is present to the north of the school building, and bitmac hardstanding areas used for sports activities are present to the south and east of the building.
- 3.6 A small retaining wall is present between the car park and the public open space area (POS) of a Persimmon Homes development which abuts the northern boundary of the site. A small electricity sub-station is also present at the southwestern corner of the school. Surrounding the school and hardstanding is typically undeveloped grassland, which is beyond a palisade fence line around the perimeter of the school grounds. The land in the north of the site is currently part of West Lancashire Borough Council (WLBC) land and a

palisade fence is also present. The WLBC land includes a bitmac playground area with dense, overgrown vegetation beyond.

- 3.7 The southeast of the site comprises relatively flat grassland which, when compared to the surrounding areas, appeared to have been levelled at some time in the past. There was also evidence of possible former trial pits in this area of the site, in the form of shallow rectangular depressions which resulted due to settlement over time.
- 3.8 Two watercourses are present on the site, one on each side of the fields in the southeast. An incoming pipe was observed at the head of each watercourse near the northeastern boundary, and both channels come together in the south of the site, before exiting the site at the southern boundary via a culvert. At the time of the walkover, the western channel was dry and there was a small flow to the south in the eastern channel.
- 3.9 The site slopes down gently to the south.

Site Boundaries and Surrounding Land Use

- 3.10 The site is bounded to the north, east, south and west by residential properties as part of a larger housing estate. Google earth historical photographs show the surrounding housing estate to have been developed post-2000. To the east and south, beyond the residential properties, are 'A' roads as part of the infrastructure network of Skelmersdale.

Site History

- 3.11 Ordnance Survey archive maps were obtained for the site. Copies of the maps are included in Appendix C, and a summary of the findings is given below.

Map Date	On-Site	Off-Site
1849	The site is part of several fields. Carr Lane is shown to be present within the western boundary of the site.	Surrounded by fields.
1893	No significant changes. Some of the field boundaries are also drainage features, with one entering the northeastern boundary indicated to be flowing to the south-southwest.	Water filled depressions (probable mineral extraction pits) are shown 70m to the east and 200m to the west of the site.
1927	No significant changes.	No significant changes.
1951	Development shown in the west of the site and labelled as "Holland Moor Colliery".	No significant changes.
1960	Seven small structures are now shown in the west of the site as part of Holland Moor Colliery, and with possible mine spoil heap in the southwest of the site. An adit is also indicated in the west of the site.	Pits to the east and west are now annotated as ponds.
1975	The small structures, possible excavation works and adit are no longer annotated on the site. A tennis court is now present on the site. Breaks in slope are annotated in the north of the site, indicating terracing of the ground.	Extensive development of the surrounding area, including residential dwellings, roads and roundabouts. A High School now abuts the northwest of the site.
1992	A large education facility and hardstanding is now annotated in the west of the site.	Continued development of the surrounding area.

- 3.12 In summary, the west of the site was a colliery from sometime between 1938 and 1951 until sometime between 1967 and 1975. The colliery included several small structures, a spoil heap in the south, and an adit. The site was later developed as part of a large high school, with buildings in the west, and a tennis court.

4.0 ENVIRONMENTAL SETTING

Geology

- 4.1 Extracts from the British Geological Survey (BGS) 1:50,000 Series Geology Maps are included within the Envirocheck Geology Report in Appendix D. The maps show the site to be covered by superficial glacial deposits of diamicton (usually stony cohesive material).
- 4.2 The bedrock geology across the western and central areas of the site comprises sandstone of the Rough Rock Formation and the eastern margins of the site are underlain by Undifferentiated Strata (mudstone, siltstone and minor sandstone) of the Pennine Lower Coal Measures Formation. A marine band is also shown to be present at the geological boundary between the Rough Rock Formation and the Pennine Lower Coal Measures Formation. The Rossendale Formation, comprising mudstone siltstone and sandstone may locally encroach onto the western boundary of the site. The maps do not indicate any potential for the site to be adversely affected by any faults.
- 4.3 The BGS maps show no coal outcrops to be present on site. However, Coal Authority electronic data indicates that two coal seams are conjectured to outcrop through the centre of the site, within the Rough Rock, trending approximately north to south. The dip is indicated to be seven degrees to the east. The generalised section on the BGS 1:50,000 Series paper map (Sheet 84, Wigan), shows the Sand Rock Coal to be present within the sequence underlying the site, comprising 1.8m thickness in two leaves. The Six Inch Coal is also indicated to be present. Both seams are not continuous, and although indicated to be present across the full length of the site, they may be absent from the Rough Rock elsewhere, in other districts.

Coal Mining

- 4.4 A CON29M Coal Mining Report was obtained from Terrafirma. A copy of the report is included in Appendix E, and a summary is given below.
- 4.5 The site is recorded to be within the surface area of historic shallow coal mine workings. The site is recorded to be situated within 20m of a known coal seam outcrop. This coal is suspected to have been historically worked at depths of less than 30m beneath the surface, within the vicinity of the site.
- 4.6 The site is not situated within an area which could be affected by present and future underground coal mining, however reserves of coal exist in the local area which could be worked at some time in the future. However, given the effective abandonment of the coalfields in this area, any future workings are considered highly unlikely.
- 4.7 There are two mine entries present within the central-western part of the site. The northern mine entry is documented to be an adit and the associated adit tunnel is documented to extend into the northeast of the site. The southern mine entry is documented to be a shaft. Both mine entries are documented by the Coal Authority to have been treated by Lancashire County Council in 1973. However, the details/specification of the treatment works undertaken have not been confirmed within the record. There is also a slight risk of unrecorded mine entries and bell pits.
- 4.8 The CON29M Report indicates that the coal seams crossing the site are the Lower Mountain and the Upper Foot, with the latter being the younger (overlying) seam. This contradicts the BGS geological map, as these seams are with the Pennine Lower Coal Measures, which are higher in the succession than the Rough Rock indicated to outcrop on the site. It is considered, therefore, that it is The Coal Authority records which are correct, rather than the BGS maps.
- 4.9 The site is unaffected by any past, present, or future proposed, opencast coal mining.

- 4.10 In view of the above, there is the possibility of unrecorded shallow workings and this will need to be assessed by an intrusive investigation using a rotary drilling rig. It is also advised that The Coal Authority should be contacted to obtain abandonment plans and records of the mine entry treatments.

Coal Recovery

- 4.11 There are two seams beneath the site at depths which could potentially be worked by open excavation. However, it is considered unlikely that any coal remaining after the historical workings could be recovered economically from the site before development.

Hydrogeology

- 4.12 The Landmark Envirocheck Report, included in Appendix F, indicates the Bedrock Aquifer Designation to be 'Secondary A'. These Aquifers comprise "permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers ". The overlying superficial diamicton are designated a 'Secondary Undifferentiated' aquifer. These classifications "have been assigned where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type".
- 4.13 There are no sensitive groundwater abstractions within 1km of the site.
- 4.14 The site is not within a groundwater Source Protection Zone.

Hydrology

- 4.15 The general area slopes to the south. Two watercourses are present on the site, one each side of the playing field in the southeast of the site, both flowing south/southwest.
- 4.16 The site is not in an area at risk from river flooding. The risks of flooding from other causes such as adverse topography or insufficient surface water drainage, are not considered here. If such risk needs to be quantified, a separate specialist Flood Risk and Drainage Report should be commissioned, if not already available.
- 4.17 There are no surface water abstractions within 1km of the site.

Other Environmental Data

- 4.18 The Landmark Envirocheck Report, included in Appendix F, contains information on numerous environmental aspects. A summary of the pertinent findings, not already covered, with additional comments, is given below.
 - 4.18.1 There are no Pollution Control Authorisations within 250m of the site.
 - 4.18.2 There are no discharge consents relating to, or adjacent to, the site.
 - 4.18.3 There are no closed or currently licenced landfills within 250m of the site.
 - 4.18.4 No radon protective measures are stated to be necessary for new dwellings or extensions on the site, and the site is within a “lower probability radon area”.
 - 4.18.5 There are no contemporary trade directory entries relating to any activities which could have significant impact on the site.
 - 4.18.6 There are no fuel station entries within 250m of the site.
 - 4.18.7 BGS data indicates the general area has the “potential for groundwater flooding at surface.

5.0 PRELIMINARY RISK ASSESSMENT AND CONCEPTUAL MODEL

5.1 Part II A of the Environmental Protection Act (EPA) 1990 became effective from 1st April 2000. The Regime was introduced by the Contaminated Land (England) Regulations 2000 (SI 2000, No. 227) along with the associated DEFRA Circular February 2000.

5.2 Section 78A (2) of the Act defines "Contaminated land is any land in such a condition, by reason of substances in, on or under that land that –

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being caused, or there is a significant possibility of such pollution being caused".

From S78A (4) "Harm" : means harm to the health of living organisms or other interference with the ecological systems of which they form part and, in the case of man, includes harm to his property.

Controlled waters are defined as "...the waters in any relevant lake or pond, or of so much of any relevant river or watercourse as is above the freshwater limit, and ground waters, that is to say, any waters contained in underground strata". From the 1st October 2004, the definition of groundwater in relation to Part IIA was amended, by the Second Water Act Commencement Order SI 2004 No 2528. This makes clear that "ground waters" does not include waters above the saturation zone, i.e. does not include any soil water and pore water present in the unsaturated zone.

5.3 The objectives of the regime are to ensure that risks associated with contaminated land are reduced to an acceptable level, having regard to the costs of doing so. The costs should be proportionate, manageable and economically sustainable.

- 5.4 In assessing risk, it is necessary to consider the probability, or frequency, of occurrence of the hazard and the magnitude/seriousness of the consequences. Consequently, for land to be classified as contaminated, it must have, or be very likely to have, a detrimental effect on humans or the environment before it can be classified as contaminated land.
- 5.5 In establishing risk, the concept of the pollutant source/pathway/receptor linkage model, based on current and proposed site use, is to be considered. Therefore for a site to be deemed contaminated under the Regime, all three linkages must be in place i.e. the site must not only contain harmful substances, but the substances must have a pathway by which to leak out and cause significant harm to a receptor.
- 5.6 In September 2004, the Environment Agency published the Contaminated Land Report (CLR) 11, "Model Procedures for the Management of Land Contamination". The document is intended to provide the technical framework for structured decision making about land contamination, and is intended to assist all those involved in "managing" the land, in particular landowners, developers, financial service providers, planners and regulators. As the document currently provides the framework for best practice, the general principles are, therefore, followed in conducting the assessment below.
- 5.7 The categorisations of risk adopted in this report are adapted from CIRIA Report C552 (Contaminated Land Risk Assessment: A Guide to Good Practice, 2001). This approach assesses the potential severity of any pollution event and the probability of the event occurring, to arrive at a risk category, for the various potential source - pathway - receptor linkages. The relevant tables used, with the definitions, are presented in Appendix G.

Conceptual Site Model

- 5.8 It is known that the site is proposed for residential properties with private gardens. An indicative proposed site layout is included in Appendix H. The site is shown to be covered by glacial clays, overlying the Rough Rock Formation (sandstone) although this is

contradicted by The Coal Authority records and is more likely to comprise mudstone, siltstone and minor sandstone of the Pennine Lower Coal Measures Formation. A mine shaft and adit are present in the central-western area of the site. Two coal seams are conjectured to outcrop across the centre of the site, trending north to south. The solid strata beneath the site are designated a Secondary A Aquifer, and the overlying superficial deposits are designated a Secondary Undifferentiated Aquifer. There are no sensitive groundwater abstractions within 1km of the site. There are two watercourses present in the centre and southeast of the site. There are no surface water abstractions within 1km downstream of the site.

- 5.9 The site has been occupied by a colliery, and more recently an educational facility. Shallow coal workings are known to be present in the east of the site, a shaft and an adit are also present in the west of the site. The most likely contamination sources are considered to be:-

5.9.1 Possible made ground: – metals inorganics, total petroleum hydrocarbons (TPH), polyaromatic hydrocarbons (PAH), phenol, asbestos.

5.9.2 Possible asbestos within existing buildings.

5.9.3 Possible harmful gases from coal/workings and mine shaft/adit: - methane, carbon dioxide.

5.9.4 Possible localised PCBs associated with the small electricity sub-station on site.

- 5.10 The conceptual model needs to consider sources of contamination, pathways along which contaminants could migrate, and the receptors which may become exposed. Guidance published by the Environment Agency has been consulted with regard to pathways and receptors. The potential sources, pathways, and receptors, applicable to the proposed development are identified on the table below. Any pathways in italics are deemed not to be viable, and the reason given.

Potential Source - Pathway - Receptor Matrix (Finished Development)

Contamination Sources	Pathways	Receptors	Severity of Consequence	Probability of Event	Risk
Possible made ground: - metals, inorganics, TPH, PAH, phenol	- Inhalation, ingestion and dermal contact with soil and dust - Fruit and vegetable intake, with soil - Vapour inhalation outdoor - Vapour inhalation indoor	Humans:- - Future occupants - Maintenance workers - Adjacent residents and general public	Medium	Low Likelihood	Moderate/ Low
Possible localised PCBs	Migration in surface water	Surface water (nearest downslope is present on site. There are no abstractions within 1km)	Mild	Unlikely	Very Low
	Migration in groundwater	Groundwater (Secondary A Aquifer, no abstractions within 1km)	Mild	Unlikely	Very Low
	Root uptake	Vegetation:- - Landscape areas - Private gardens	Medium	Low Likelihood	Moderate/ Low
	Migration	Services/Utilities:- Potable water supply	Medium	Low Likelihood	Moderate/ Low
Possible shallow workings/coal and mine shaft:- methane and carbon dioxide	- Asphyxiation - Explosive risk	- Construction/de-molition workers - Future occupants - Buildings	Severe	Low Likelihood	Moderate
Possible asbestos within existing buildings and possible made ground	Inhalation	- Future occupants - Maintenance workers - Adjacent residents and general public	Severe	Low Likelihood	Moderate

5.11 The above matrix indicates there are several potential source – pathway – receptor linkages applicable to the proposed development, ranging from moderate to very low risk.

Further Investigation

- 5.12 The existence of the possible contamination sources is not yet known, and it is recommended that a ground investigation on a grid system is implemented, together with sampling and testing of the materials encountered for the potential contaminants of concern to assess this possibility. The investigation should be implemented in accordance with BS10175 : 2011 + A2 : 2017 "Investigation of potentially contaminated sites - Code of practice", and any targeted sampling should also be implemented. This will enable refinement of the conceptual model and a full assessment of the risks to be made, enabling any remedial strategy to be determined.
- 5.13 Samples of any made ground and topsoil should be issued for testing to a UKAS accredited laboratory for a broad suite of determinands including metals, inorganics, asbestos, phenols, speciated PAH, and TPH. PCBs should also be tested for due to the presence of a sub-station on site. Speciated assessment of TPH will be required for any elevated levels.
- 5.14 Leachability testing should be undertaken where contamination levels are above the designated screening values.
- 5.15 Gas monitoring wells should be installed, and monitored. The number of visits required depends on the sensitivity of the proposed development and the generation potential of the source, as per the table provided below, adapted from CIRIA C665 "Assessing risks posed by hazardous ground gases to buildings".

		Generation Potential of Source				
		Very Low	Low	Moderate	High	Very High
Sensitivity of Development	Low (Commercial)	4	6	6	12	12
	Moderate (Flats)	6	6	9	12	24
	High (Residential)	6	9	12	24	24

- 5.16 The visits above are typically on a fortnightly basis. The distance to the source and the likelihood of a pathway being present should also be taken into account. Therefore, it is recommended that the wells should be monitored on six fortnightly occasions initially, with at least two visits occurring during periods of low and falling pressure to comply with current guidance. If gas readings are significant, the monitoring period should be extended to 12 visits, on the basis that the generation potential is considered to be moderate and the sensitivity high. In order for visits to occur during periods of low and falling pressure, flexibility is required with regard to monitoring intervals and, this can, therefore, affect the total duration of the monitoring period.
- 5.17 An asbestos survey should be carried out on the existing buildings, unless one is already available.
- 5.18 A rotary borehole investigation is also required, to determine the depth and nature of coal seams and workings beneath the site and their potential to adversely affect ground stability.
- 5.19 The abandonment plans and mine entry treatment records should be obtained from the Coal Authority before carrying out the rotary boreholes noted above.

6.0 COMMENTS AND CONCLUSIONS

Site Description

- 6.1 Hope High School and associated hardstanding, currently disused and unoccupied, is present in the southwestern area of the site. The school is of brick construction, with a corrugated metal roof. A car park is present to the north of the school building and bitmac hardstanding used for sports activities are present to the south and east of the building. A small retaining wall is present between the car park and the POS area of a Persimmon Homes development which abuts the northern boundary of the site. A small sub-station is present at the southwestern corner of the school. Surrounding the school and hardstanding is typically undeveloped grassland, which is beyond a palisade fence line around the perimeter of the school grounds.
- 6.2 Two watercourses are also present on the site, one on each side of the fields in the southeast. An incoming pipe was observed at the head of each watercourse, and both channels come together in the south of the site before exiting the site at the southern boundary via a culvert.
- 6.3 The site is bounded to the north, east, south and west by residential properties as part of a larger housing estate developed post-2000. To the east and south, beyond the residential properties, are A roads as part of the infrastructure network of Skelmersdale.

Site History

- 6.4 Ordnance Survey archive maps show the west of the site was a colliery from sometime between 1938 and 1951 until sometime between 1967 and 1975. The colliery included several small structures, a spoil heap in the south, and an adit. The site was later developed as part of a large high school, with buildings in the west, and a tennis court. The

surrounding area was predominantly agricultural fields until 1975, where extensive development took place.

Geology

- 6.5 The British Geological Survey (BGS) maps show the site to be covered by glacial clays, overlying Rough Rock Formation sandstone. However, this is contradicted by Coal Authority (CA) records and is more likely to comprise undifferentiated strata (mudstone, siltstone and minor sandstone) of the Pennine Lower Coal Measures Formation. Two coal seams are conjectured to outcrop across the centre of the site, trending north to south, according to CA records, but these are absent from the BGS maps. It is considered that the CA records are likely to be correct rather than the BGS maps. No faults are indicated to adversely affect the site.

Coal Mining and Coal Recovery

- 6.6 The Coal Mining Report indicates that there are both recorded and potential unrecorded shallow workings beneath the site. This will need to be assessed by an intrusive investigation using a rotary drilling rig. Coal seams outcrops may be encountered running north – south through the centre of the site, which could have been taken out in the past by unrecorded open excavation, leaving areas of deep made ground. Bell pits may also be present.
- 6.7 There are two mine entries present within the central-western part of the site. The northern mine entry is documented to be an adit and the associated adit tunnel is documented to extend into the northeast of the site. The southern mine entry is documented to be a shaft. Both mine entries are documented by The Coal Authority to have been treated by Lancashire County Council in 1973. However, the details/specification of the treatment works undertaken have not been confirmed within the record.

- 6.8 To minimise abnormal costs associated with the mine entries, the proposed layout should be designed to avoid the mine entries where possible, for example by ensuring they are within an area of public space rather than below adoptable roads. Construction of buildings on or close to the mine entries is to be avoided. Depending on the records obtained from The Coal Authority, the mine entries may need to be capped/filled and provided with reinforced concrete protection structures. The mine adit is effectively an inclined tunnel running eastwards from its entrance. Therefore, structures may be at risk from ground instability which lie above the line of the adit.
- 6.9 There are two seams beneath the site at depths which could potentially be worked by open excavation. However, it is considered unlikely that any coal remaining after the historical workings could be recovered economically from the site before development.

Environmental Data

- 6.10 The strata beneath the site are classed as a Secondary A Aquifer. There are no sensitive groundwater abstractions within 1km of the site.
- 6.11 The nearest downslope surface water is an unnamed stream present on the site. However, there are no abstractions within 1km of the site.
- 6.12 No radon protective measures are required for properties constructed on the site.
- 6.13 There are no landfills within 250m of the site. However, there is shallow coal and mine workings on/below the site. It is recommended, therefore, that gas wells should be installed and monitored, on six fortnightly occasions initially, with at least two visits occurring during periods of low and falling pressure. If gas readings are significant, the monitoring period should be extended to 12 visits. In order for visits to occur during periods of low and falling pressure, flexibility is required with regard to monitoring intervals and, this can, therefore, affect the total duration of the monitoring period.

- 6.14 The site is not at risk from river flooding. The risks of flooding from other causes such as adverse topography or insufficient surface water drainage, are not considered here. If such risk needs to be quantified, a separate specialist Flood Risk and Drainage Report should be commissioned, if not already available.
- 6.15 BGS data indicates the general area has the “potential for groundwater flooding at surface.

Likely Ground Conditions and Behaviour of Excavations

- 6.16 The subsoils beneath the site are likely to comprise possible made ground, overlying glacial diamicton (usually stony clays with the granular content up to boulder size, referred to in the past as “Boulder Clay”), overlying residual soils of the underlying bedrock geology. Coal seams may be encountered running north – south through the centre of the site, which could have been taken out in the past by unrecorded open excavation, leaving areas of deep made ground.
- 6.17 It is likely that excavations into the natural strata will remain stable in the short term, requiring minimal trench support, in accordance with the prevailing statutory guidance. However, instability may be anticipated within any made ground present on the site.
- 6.18 The groundwater regime can only be confirmed by an intrusive investigation. However, shallow groundwater may be present, as the site is stated to have potential for groundwater flooding at the surface by the BGS.
- 6.19 Excavations into the natural subsoils will probably be readily achieved using conventional hydraulic plant. However, a breaker may be required for buried foundations, structures or obstructions in the made ground, together with any rock encountered. There is potential for localised boulders to cause excavation difficulty.

Contamination Assessment

- 6.20 The desk study has identified the following potential contamination sources:
- 6.20.1 Possible made ground: – metals, inorganics, TPH, PAH, phenol, asbestos.
 - 6.20.2 Possible harmful gases from coal/workings: - methane, carbon dioxide.
 - 6.20.3 Asbestos within existing buildings.
 - 6.20.4 Possible localised PBCs adjacent to the sub-station.
- 6.21 There is a possibility of source - pathway - receptor linkages if the site is redeveloped with the proposed residential dwellings, although the existence of the contamination sources is not known. It is, therefore, recommended that a ground investigation is implemented, involving sampling on a grid system, along with any targeted sampling and testing. This will enable a refinement of the conceptual model, a full assessment of risks to be undertaken, and allow any remediation strategy to be determined.
- 6.22 An asbestos survey should be carried out on the existing buildings, unless one is already available, and any asbestos removed by an appropriately qualified contractor.

Foundations

- 6.23 Strip or trench fill foundations may be acceptable for the site, subject to the thickness of any existing made ground and the mining situation. This will need to be confirmed by an intrusive investigation. There are known shallow coal mine workings present underlying the eastern area of the site and potential unrecorded underground coal workings, both of which will need to be assessed by intrusive investigation. It is likely that stabilisation of the underground workings by drilling and grout injection will be required. Further east on the site, it is possible that sufficient cover may be present to avoid the need for grout

injection. Where workings are grouted and strip foundations are acceptable, the foundations will need to be reinforced with two layers of B503 mesh – one near the top and one near the bottom of the footing. Where workings are very shallow, pseudo rafts may be more appropriate.

- 6.24 Two coal seams are indicated to outcrop in the centre of the site, trending north to south, which may have been excavated via opencast methods locally, leading to areas of deep fill. In these areas, piled foundations may be the preferred solution. Any areas of colliery spoil may be susceptible to pyritic weathering heave. This should be assessed by ensuring that samples of the material are tested for total and water soluble sulphate, sulphur, and pH values.
- 6.25 Clays are likely to be present on the site, in combination with some trees. If not already available, a tree survey may be required to enable a foundation schedule to be prepared. The tree survey will need to include mature trees on third party properties within a 30m radius. Plasticity testing of the clays on the site is also recommended.
- 6.26 The foundations will need to be taken below any existing made ground, including cellars and foundations, to bear onto the natural strata. There may also be a legacy of buried services.

Road Pavement Construction

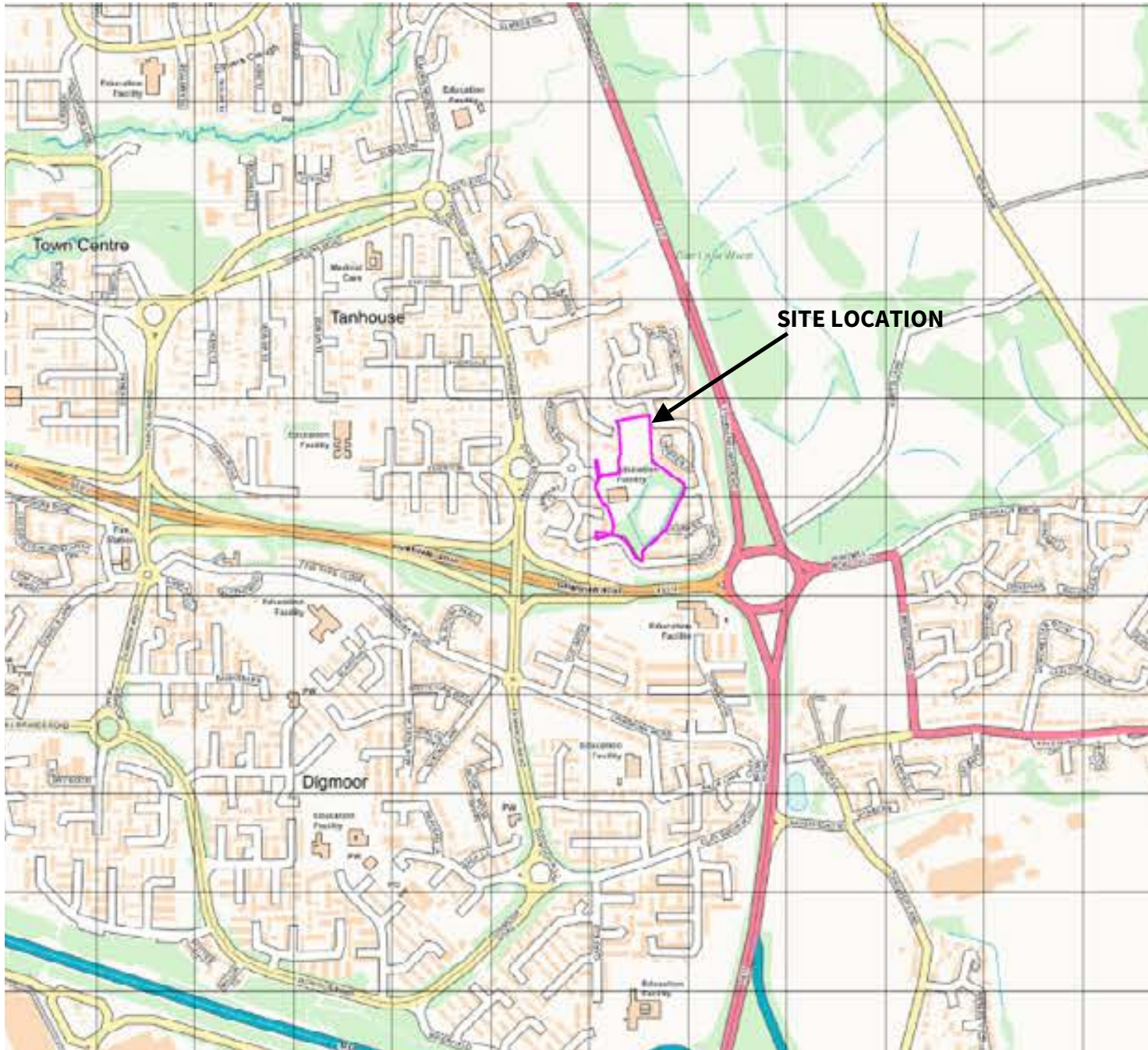
- 6.27 For any areas of road pavement, including car parking areas, the design California Bearing Ratio (CBR) will depend upon the exact nature of the formation. On natural subsoils, it is anticipated a design CBR of at least 2% may be applicable, below any soft spots and at equilibrium moisture content.

Soakaways

- 6.28 The disposal of surface water using soakaways is not considered to be practical on site due to the presence of deep, low permeability, glacial diamicton and possible shallow coal mine workings beneath the site. Full details have been reported separately within a soakaway feasibility letter by ARP (North West) Ltd.

APPENDIX A

SITE LOCATION PLAN AND AERIAL PHOTOGRAPH



0m 400m

Approximate Scale

ARP
 ARP NORTH WEST LTD
 CHARTERED CONSULTING ENGINEERS
 2nd Floor · 3 Hardman Square · Manchester M3 3EB
 Telephone : 0113 245 8498 · E-Mail : manchester@arnorthwest.co.uk

Project HOPE HIGH SCHOOL SKELMERSDALE	
Client TAWD VALLEY DEVELOPMENTS LIMITED	
Title SITE LOCATION PLAN	
Date JANUARY 2020	
Drawn DMB	Scale AS SHOWN
Job No. NW134/01/02	



0m 100m

Approximate Scale



ARP NORTH WEST LTD
CHARTERED CONSULTING ENGINEERS
2nd Floor · 3 Hardman Square · Manchester M3 3EB
Telephone : 0113 245 8498 · E-Mail : manchester@arnorthwest.co.uk

Project HOPE HIGH SCHOOL SKELMERSDALE	
Client TAWD VALLEY DEVELOPMENTS LIMITED	
Title AERIAL PHOTOGRAPH	
Date JANUARY 2020	
Drawn DMB	Scale AS SHOWN
Job No. NW134/01/02	

APPENDIX B

SITE WALKOVER PHOTOGRAPHS



Photograph 1: Car park present to the north of the school building.



Photograph 2: Unoccupied Hope High School, comprising brick and corrugated steel roof.



Photograph 3: Hardstanding used for sports activities.



Photograph 4: Hardstanding used for sports activities and palisade fence surrounding the school grounds.



Photograph 5: Sub-station present to the southwest of the school.



Photograph 6: Access from the school grounds to the playing fields.



Photograph 7: Current playing field in the southeast of the site.



Photograph 8: Possible former trial pit scar in the playing fields in the southeast.



Photograph 9: Flowing watercourse seen in the southeast of the site.



Photograph 10: Inflow pipe seen at the start of the watercourse on site.



Photograph 11: Boggy ground and vegetated area surrounding the playing field in the southeast.



Photograph 12: Watercourse on site that was dry at the time of the walkover.

A P P E N D I X C

ORDNANCE SURVEY ARCHIVE MAPS

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	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

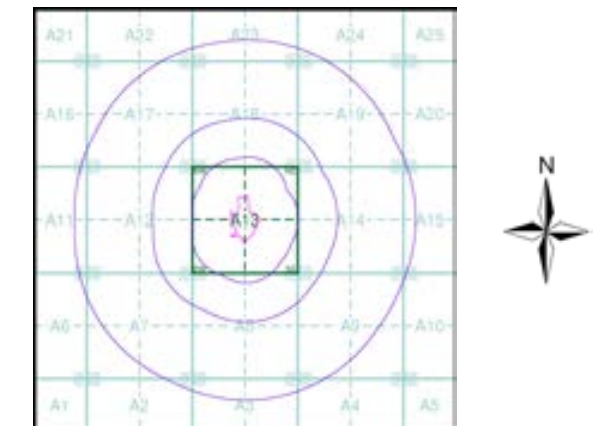
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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	2
Lancashire And Furness	1:10,560	1894	3
Lancashire And Furness	1:10,560	1909	4
Lancashire And Furness	1:10,560	1928 - 1929	5
Lancashire And Furness	1:10,560	1928 - 1929	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Lancashire And Furness	1:10,560	1951 - 1952	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1967	10
Ordnance Survey Plan	1:10,000	1972 - 1977	11
Ordnance Survey Plan	1:10,000	1982 - 1984	12
Ordnance Survey Plan	1:10,000	1991	13
10K Raster Mapping	1:10,000	1999 - 2001	14
Street View	Variable		15

Historical Map - Slice A



Order Details

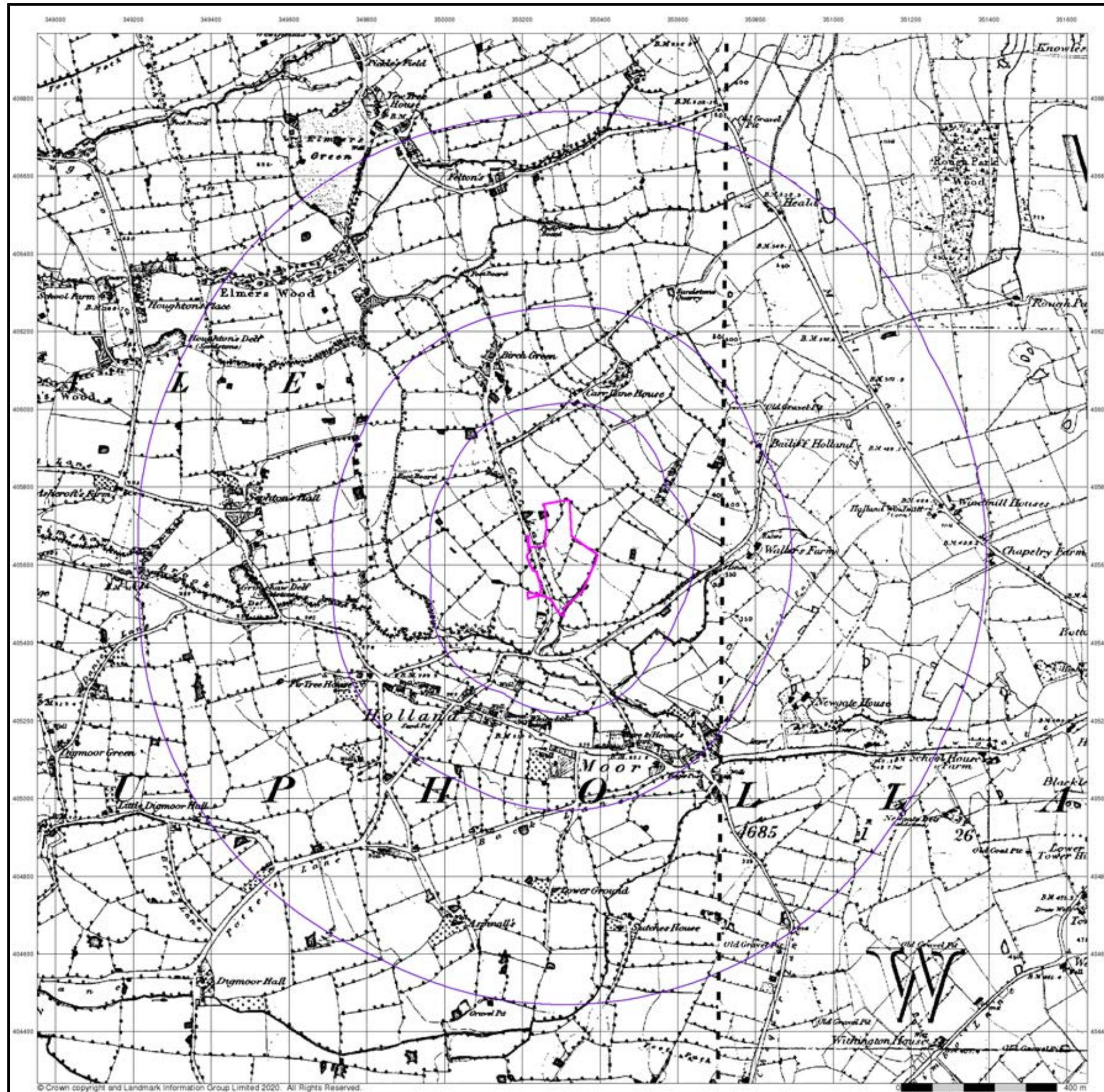
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Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



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



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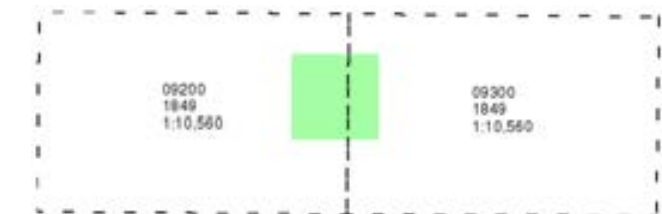
Lancashire And Furness

Published 1849

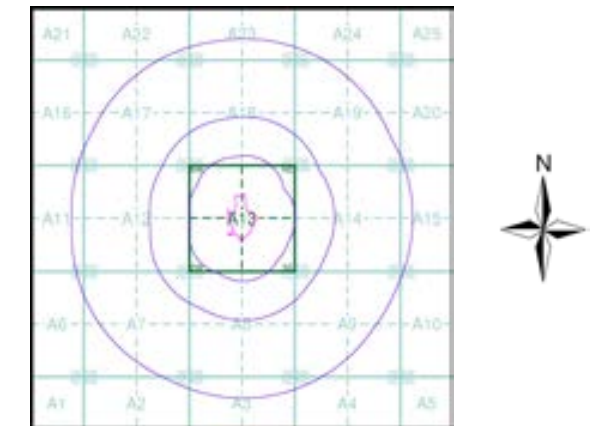
Source map scale - 1:10,560

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



Order Details

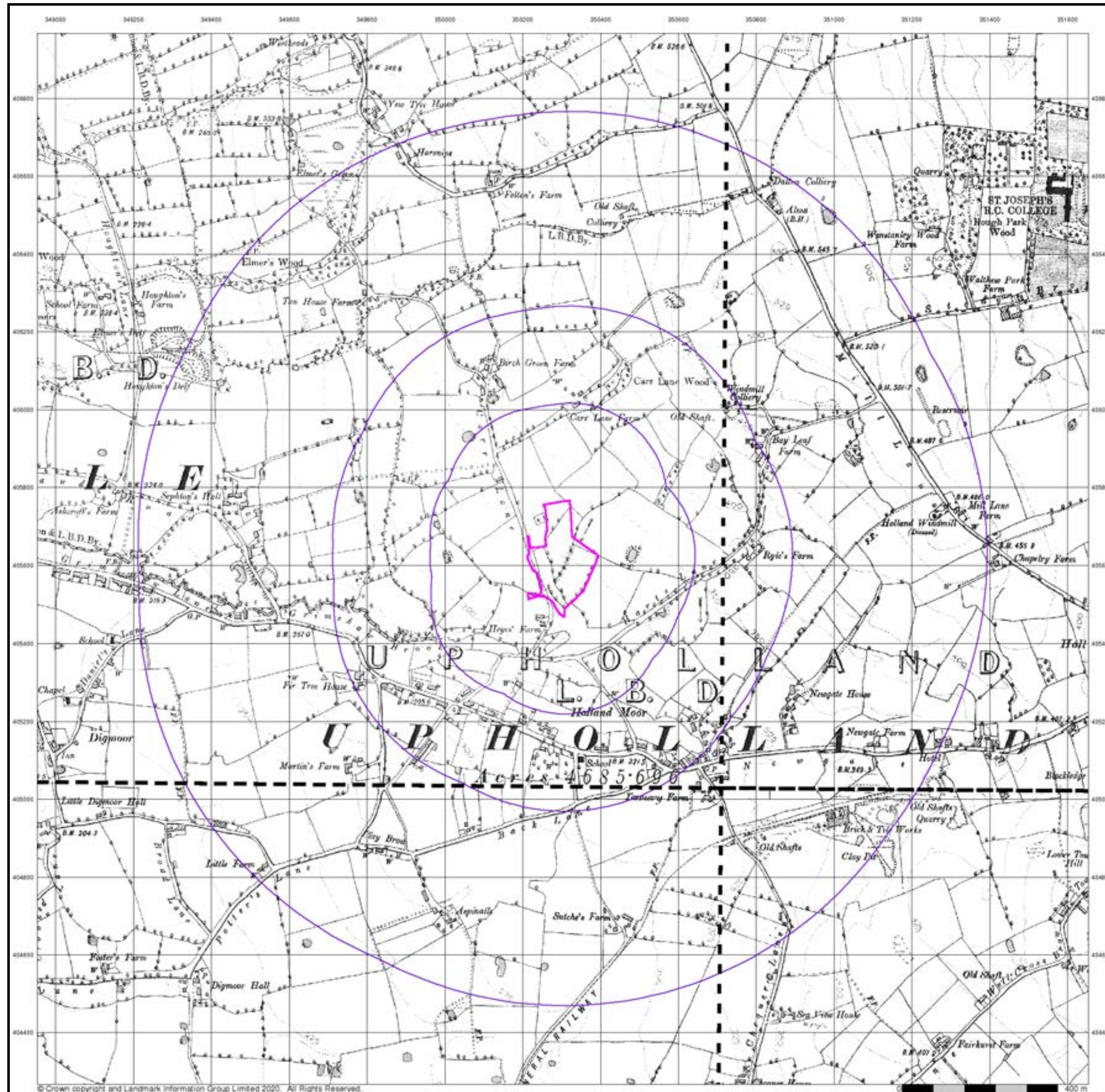
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Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



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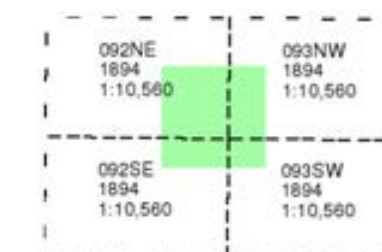
Lancashire And Furness

Published 1894

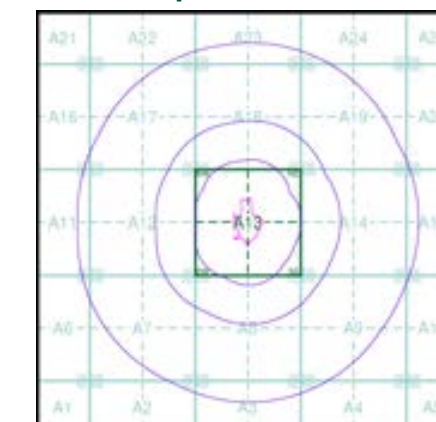
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. 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: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School

Lancashire And Furness

Published 1909

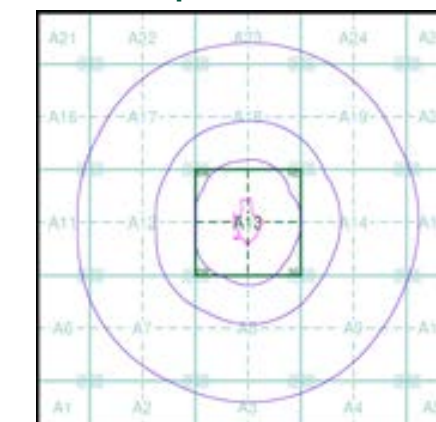
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Map Name(s) and Date(s)

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092SE 1909 1:10,560	093SW 1909 1:10,560

Historical Map - Slice A

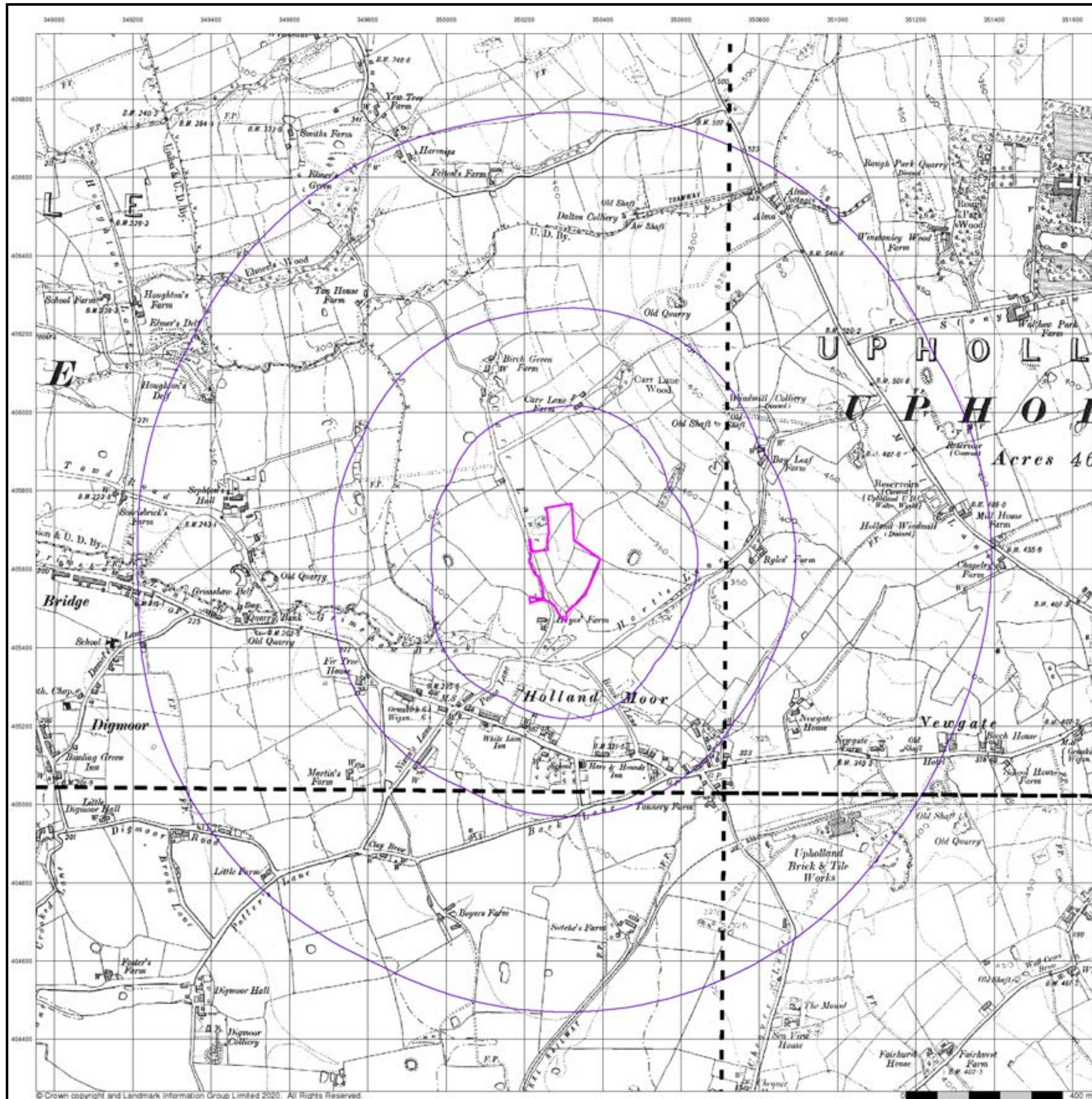


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Lancashire And Furness

Published 1928 - 1929

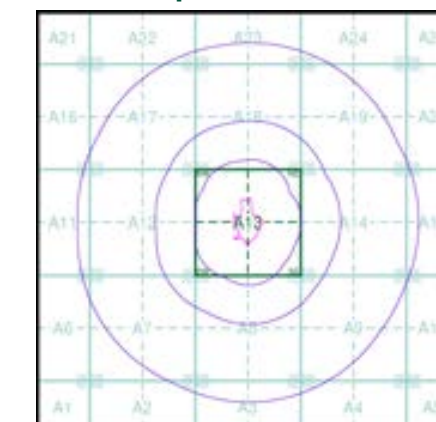
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Map Name(s) and Date(s)

092NE 1928 1:10,560	093NW 1929 1:10,560
092SE 1928 1:10,560	093SW 1929 1:10,560

Historical Map - Slice A

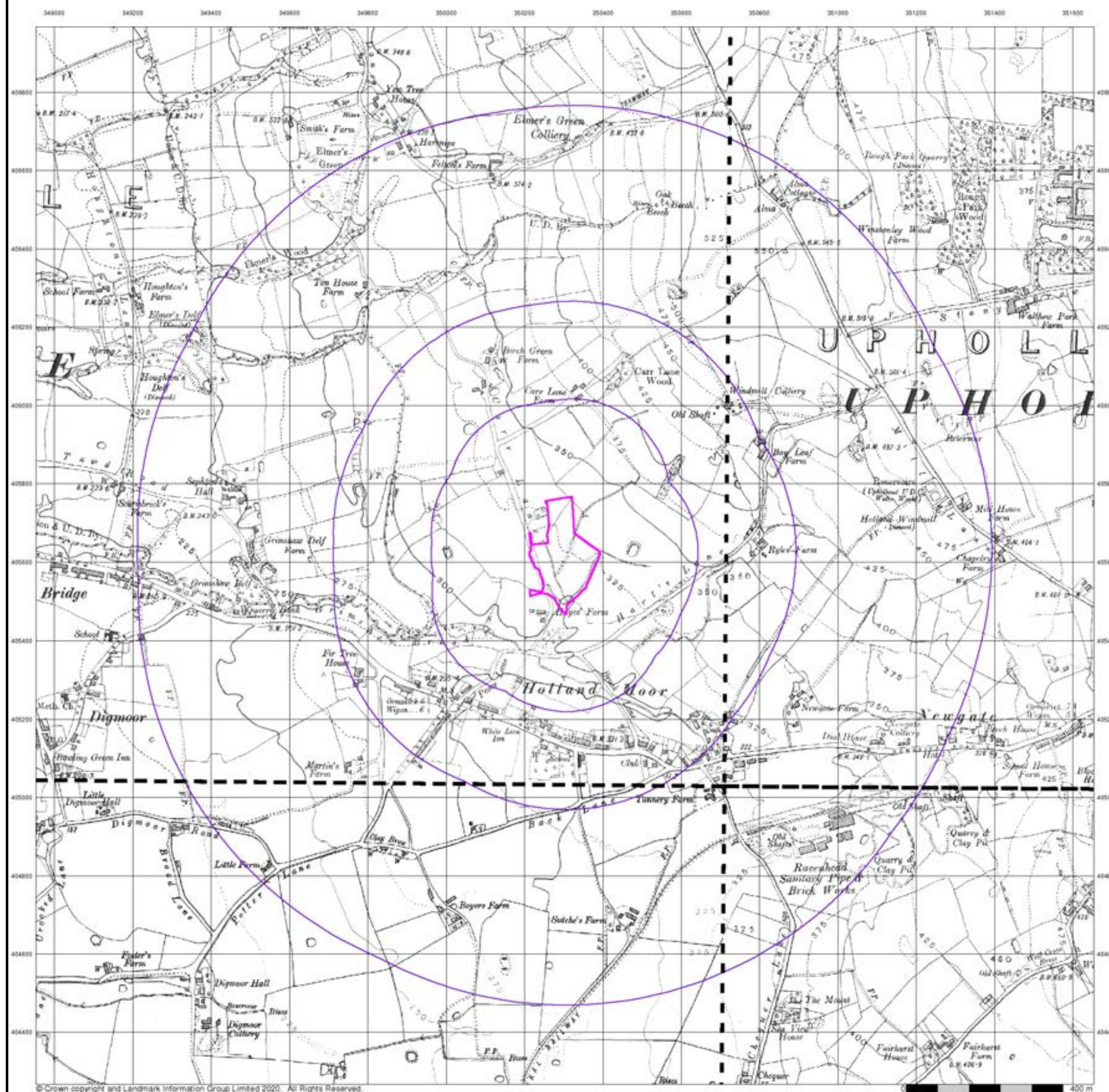


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National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



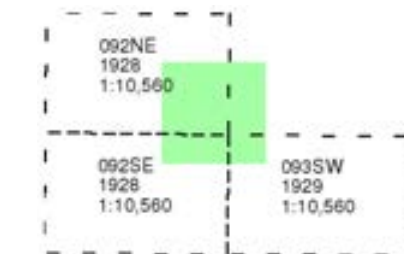
Lancashire And Furness

Published 1928 - 1929

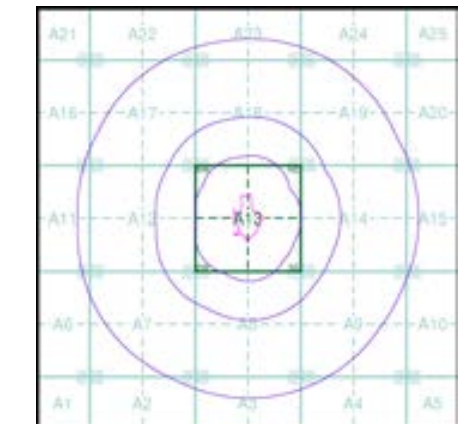
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Map Name(s) and Date(s)



Historical Map - Slice A

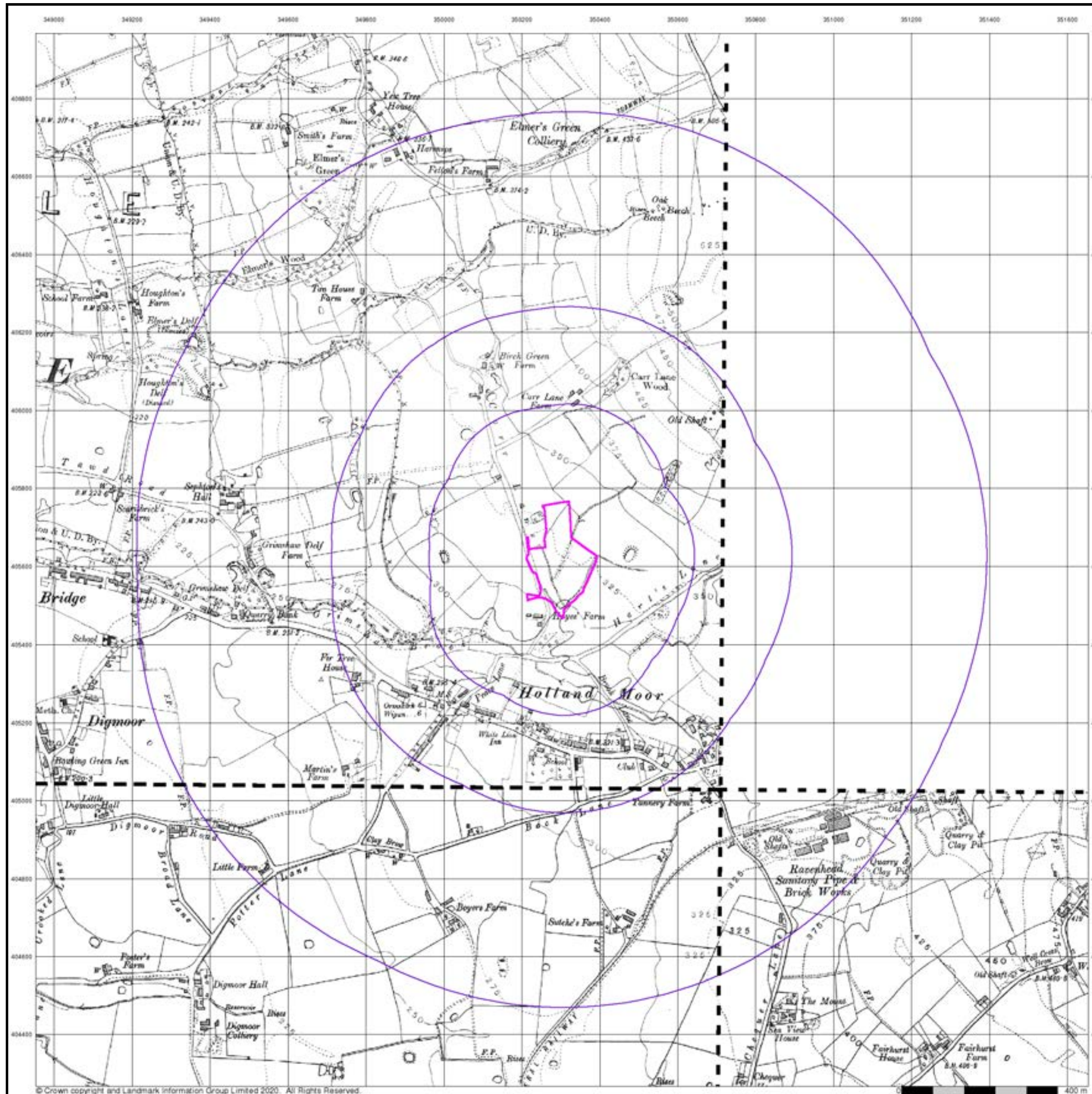


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Lancashire And Furness

Published 1938 - 1939

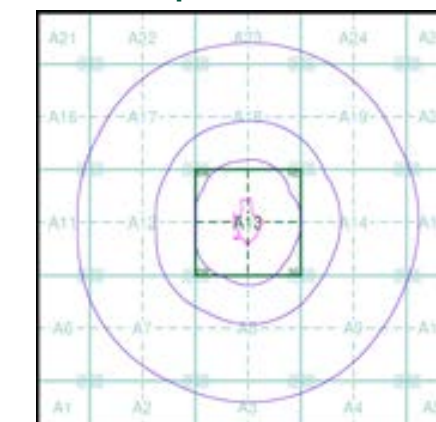
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

092NE 1938 1:10,560	093NW 1938 1:10,560
092SE 1938 1:10,560	093SW 1938 1:10,560

Historical Map - Slice A

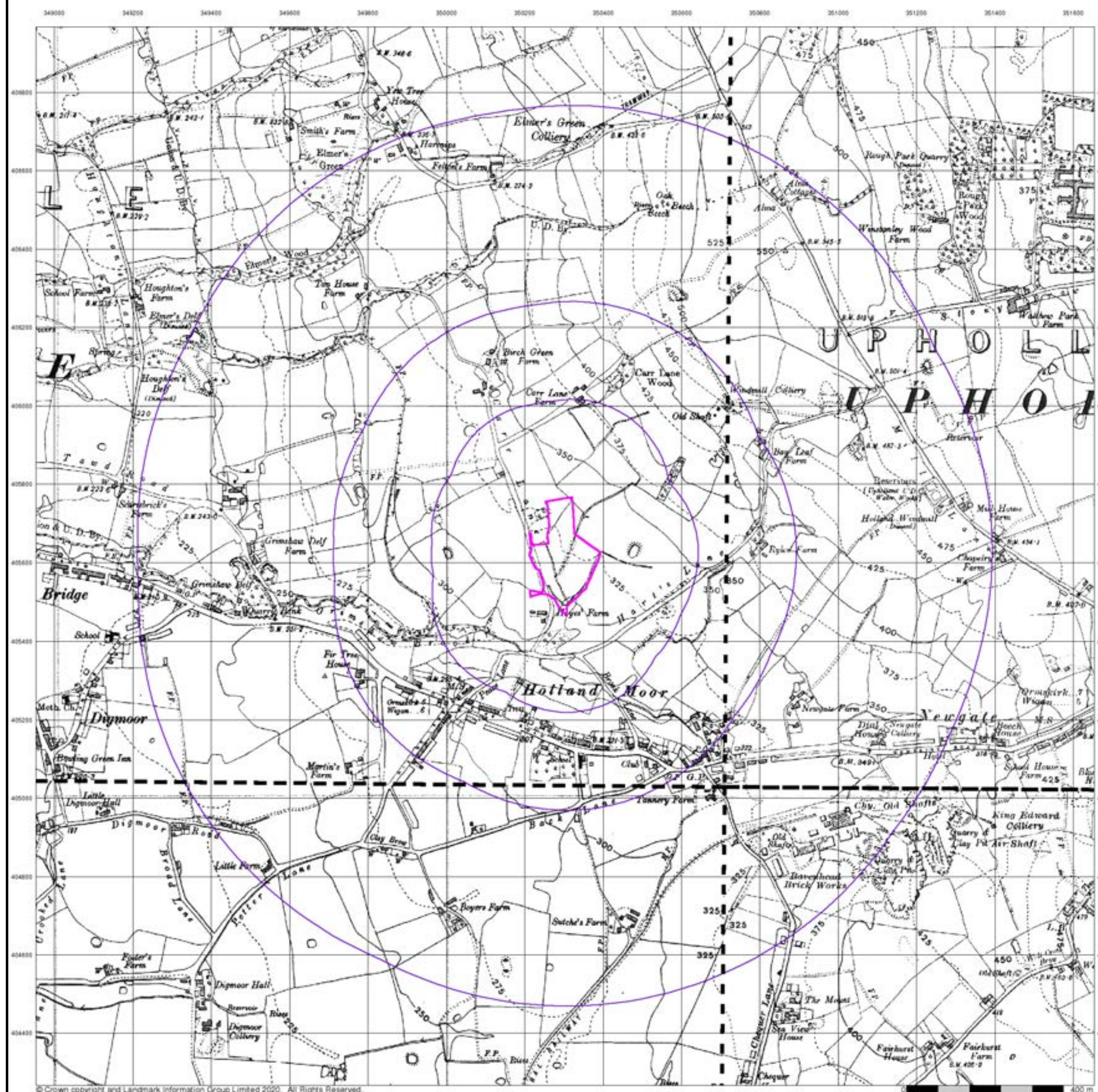


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Lancashire And Furness

Published 1951 - 1952

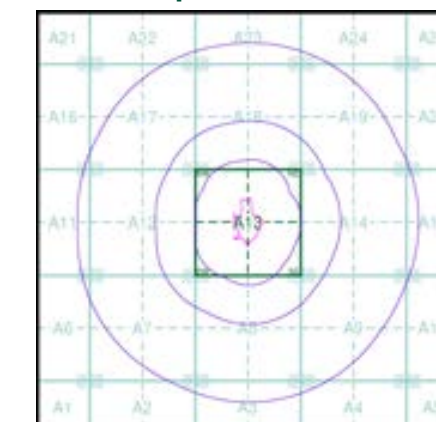
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Map Name(s) and Date(s)

092NE 1951 1:10,560	093NW 1951 1:10,560
092SE 1952 1:10,560	093SW 1951 1:10,560

Historical Map - Slice A

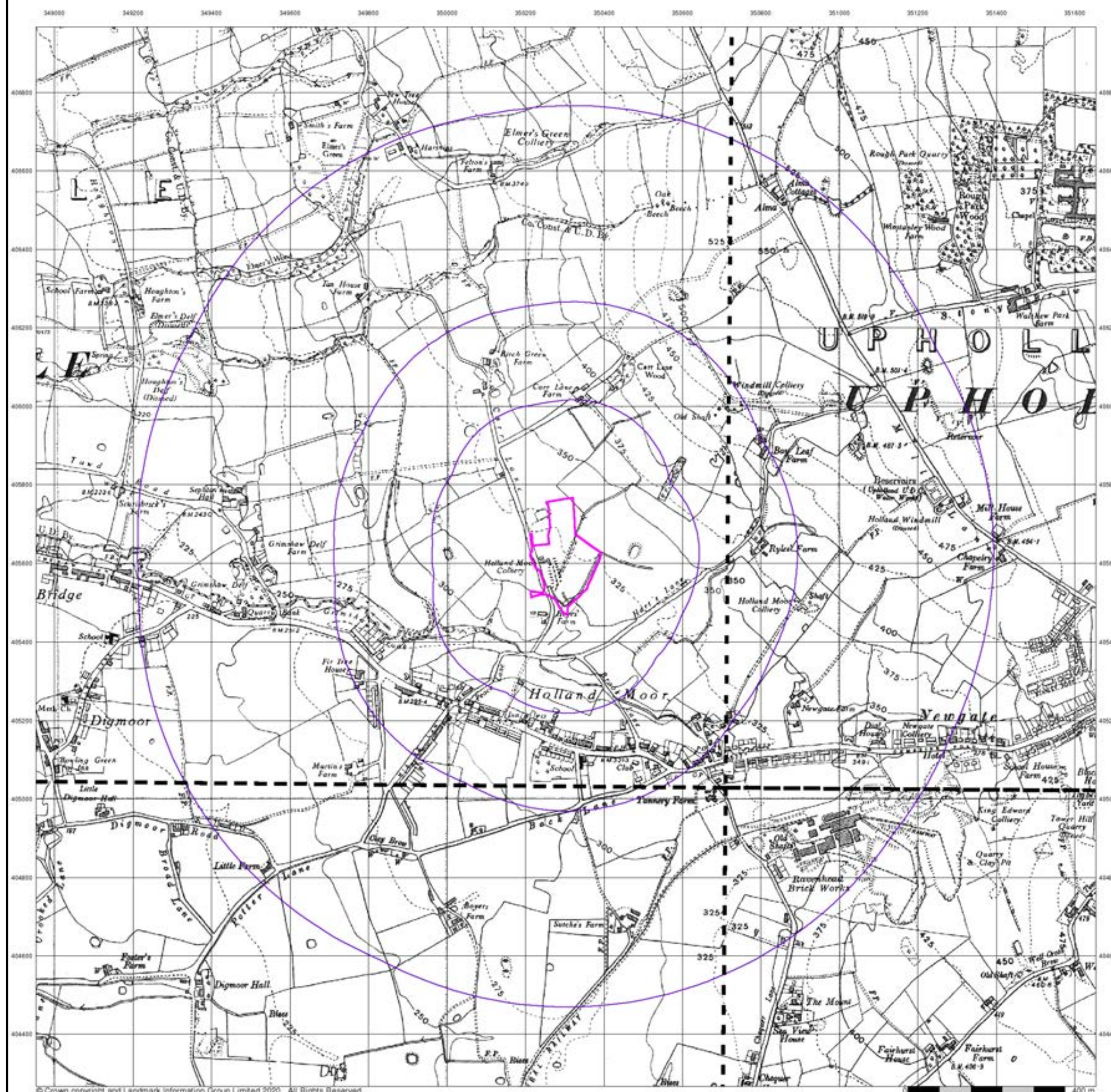


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Ordnance Survey Plan

Published 1955

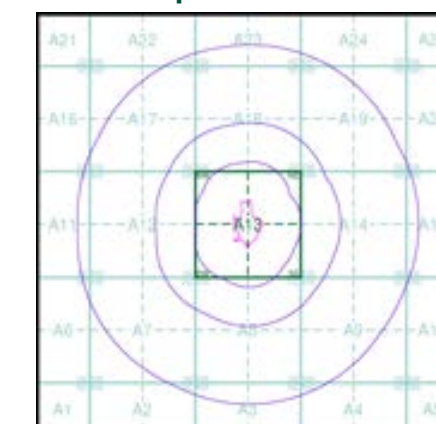
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Map Name(s) and Date(s)

SD40NE	SD50NW
1955	1955
1:10,560	1:10,560
SD40SE	SD50SW
1955	1955
1:10,560	1:10,560

Historical Map - Slice A

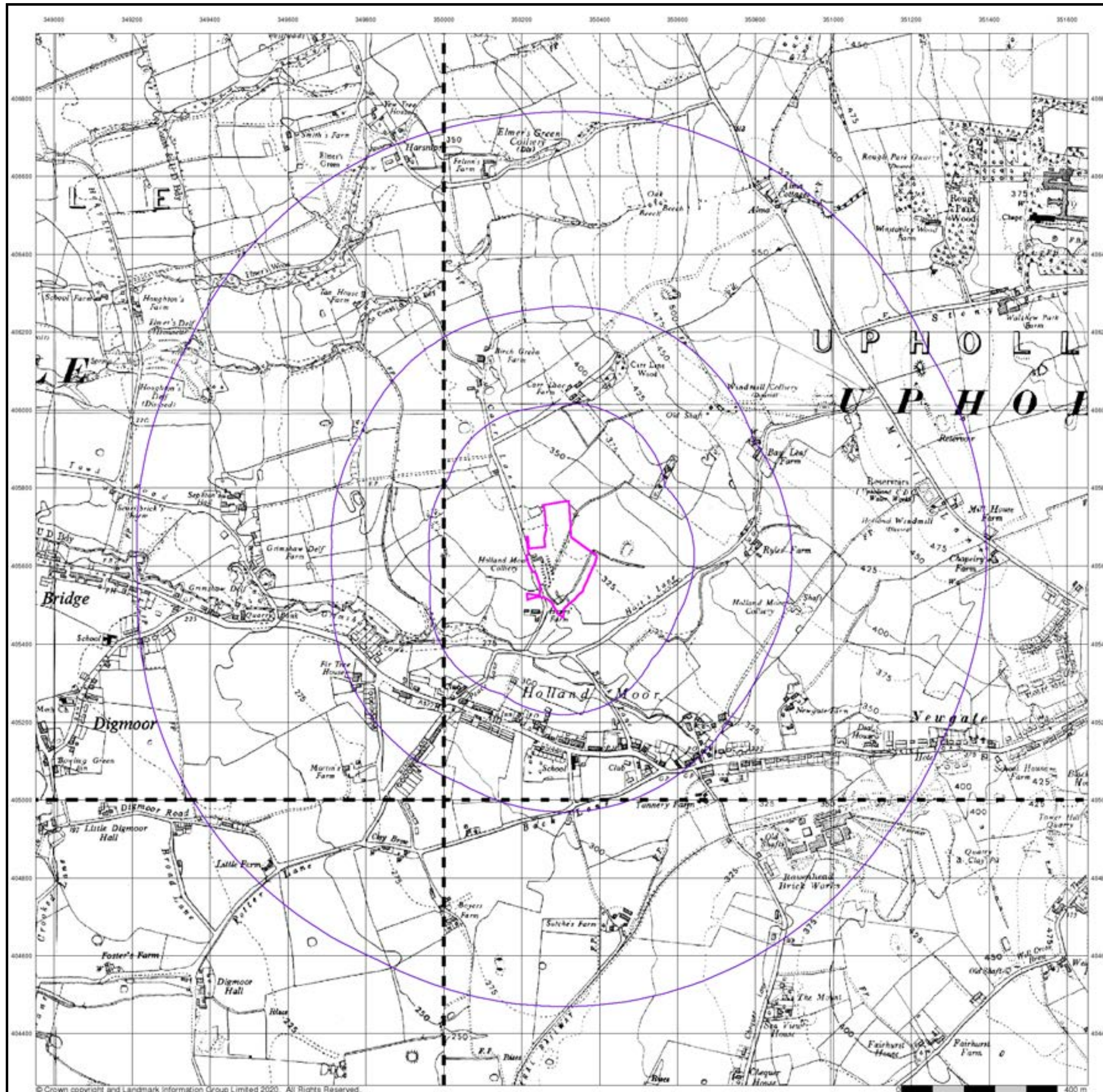


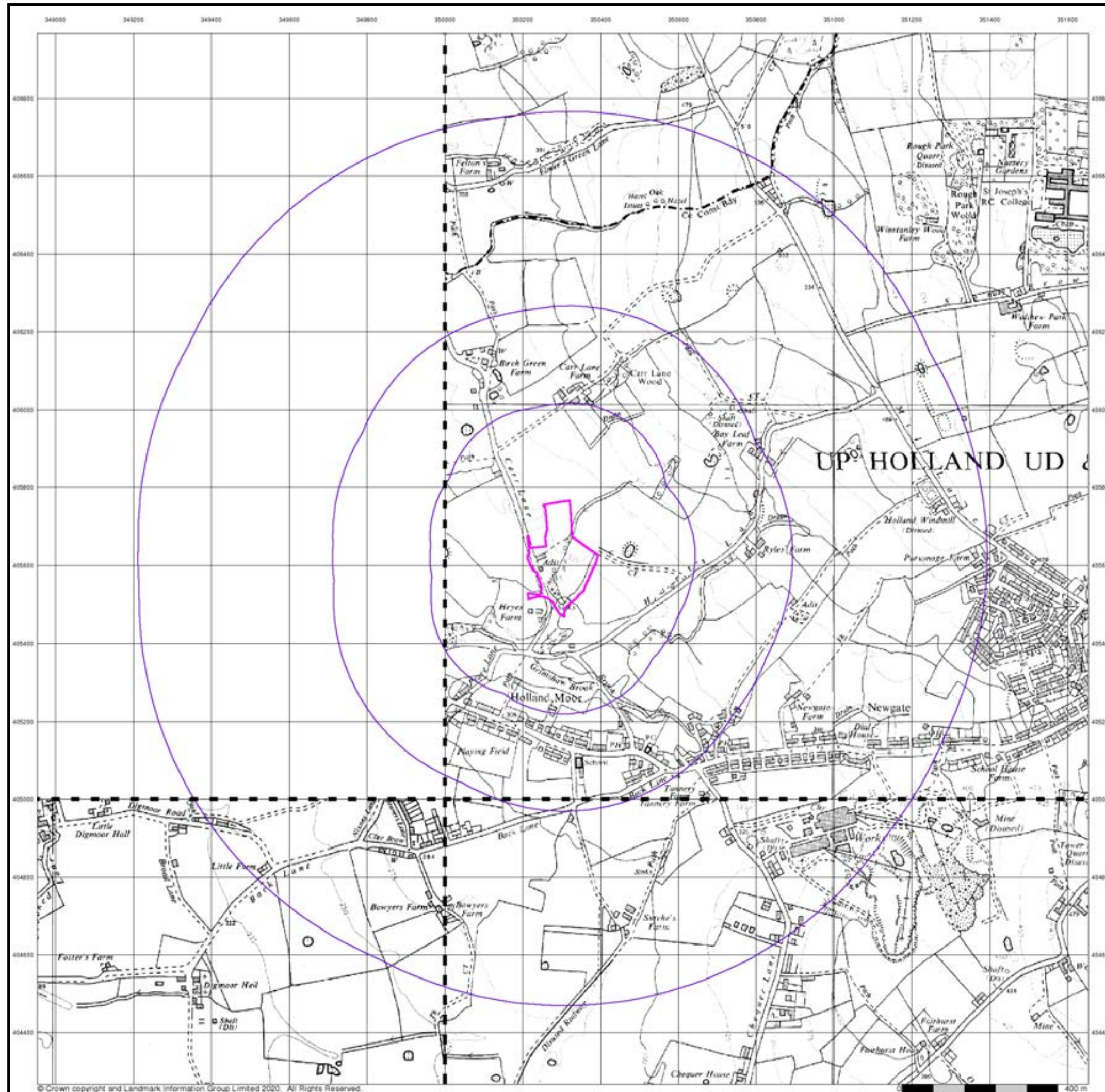
Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School





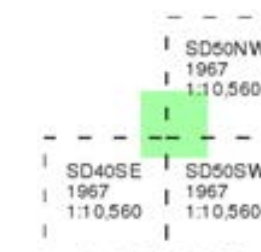
Ordnance Survey Plan

Published 1967

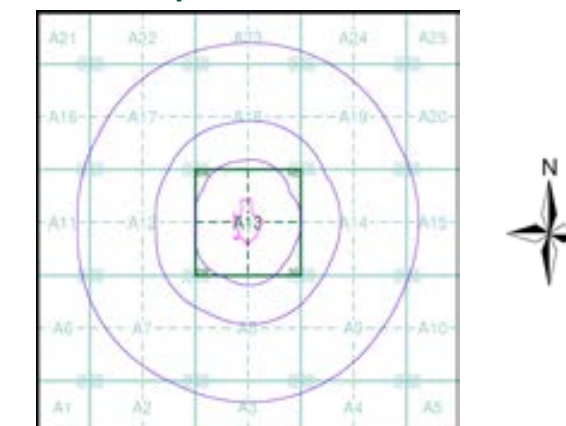
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Map Name(s) and Date(s)



Historical Map - Slice A

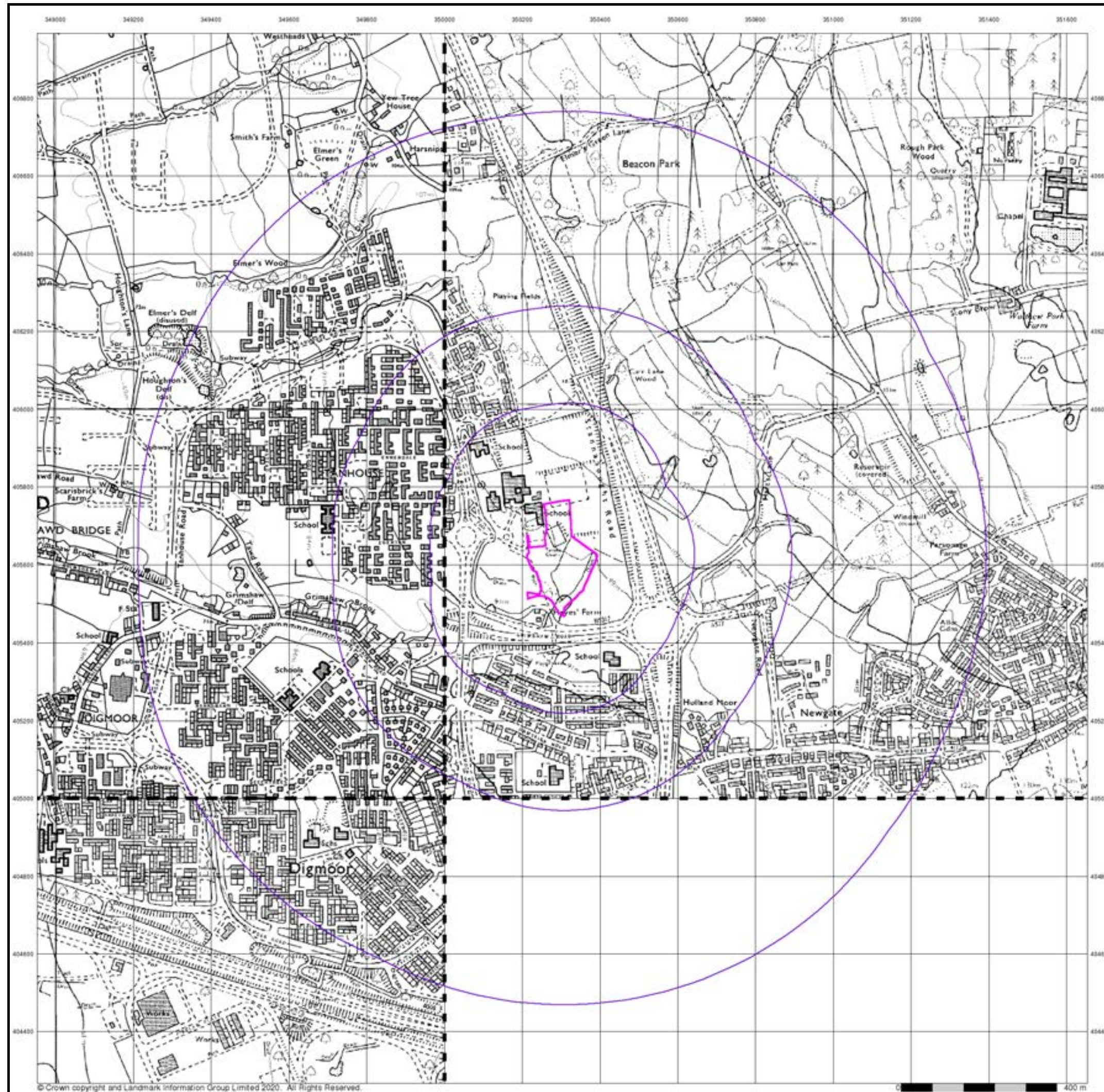


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Ordnance Survey Plan

Published 1972 - 1977

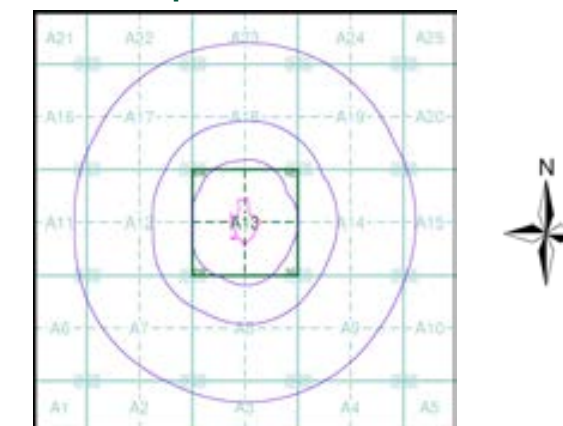
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD40NE 1972 1:10,000	SD50NW 1976 1:10,000
SD40SE 1977 1:10,000	

Historical Map - Slice A

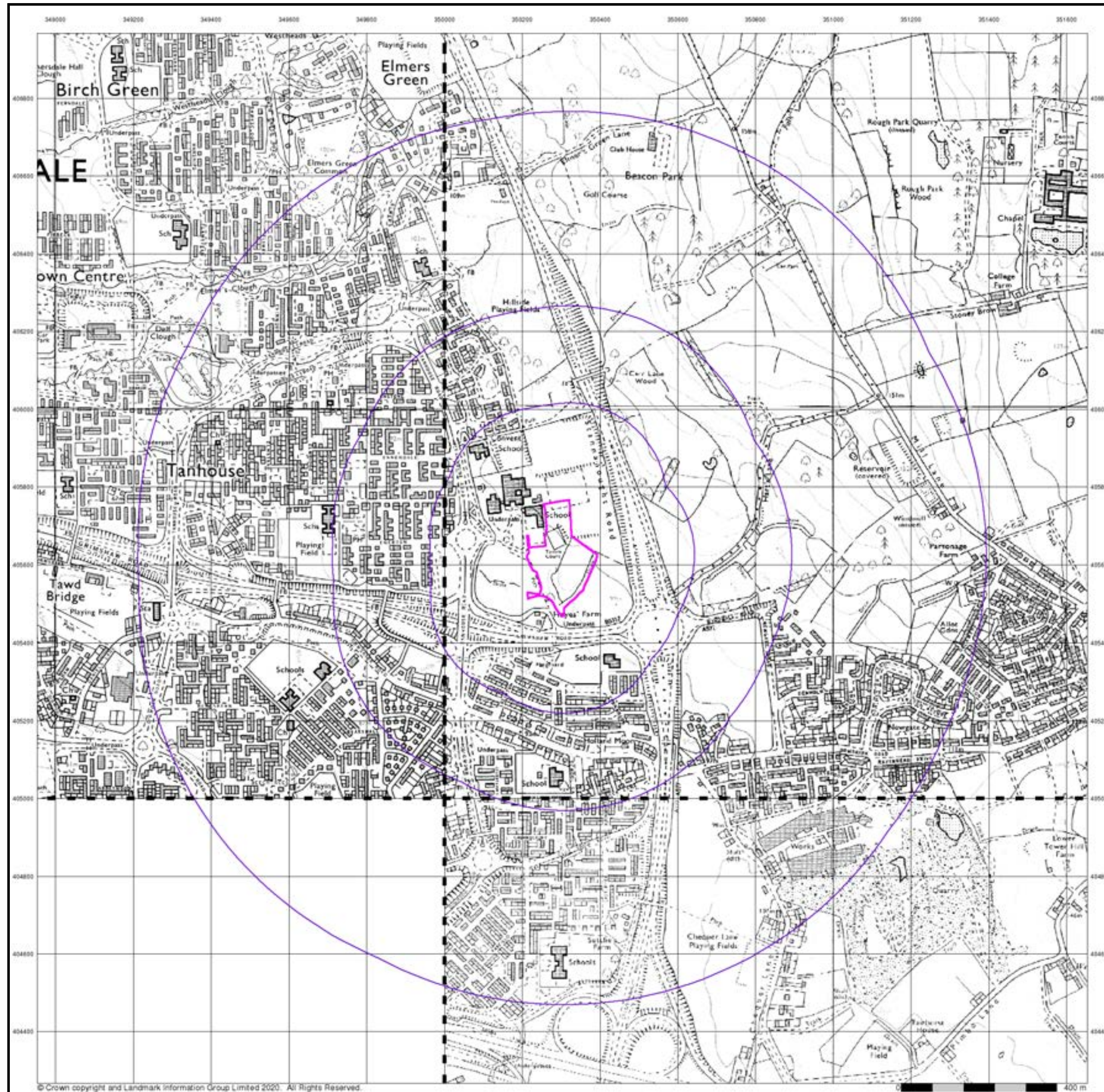


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



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Ordnance Survey Plan

Published 1982 - 1984

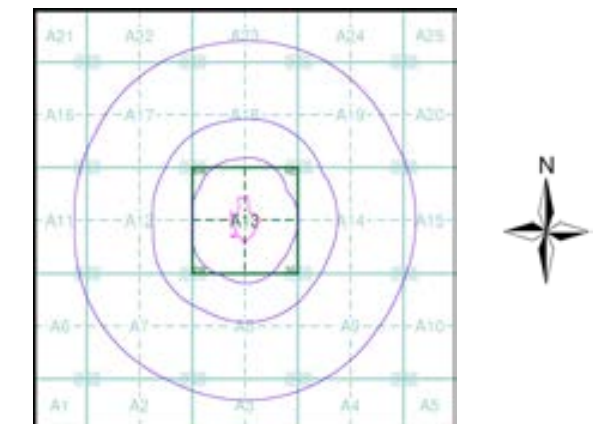
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD40NE 1983 1:10,000	SD50NW 1984 1:10,000
	SD50SW 1982 1:10,000

Historical Map - Slice A



Order Details

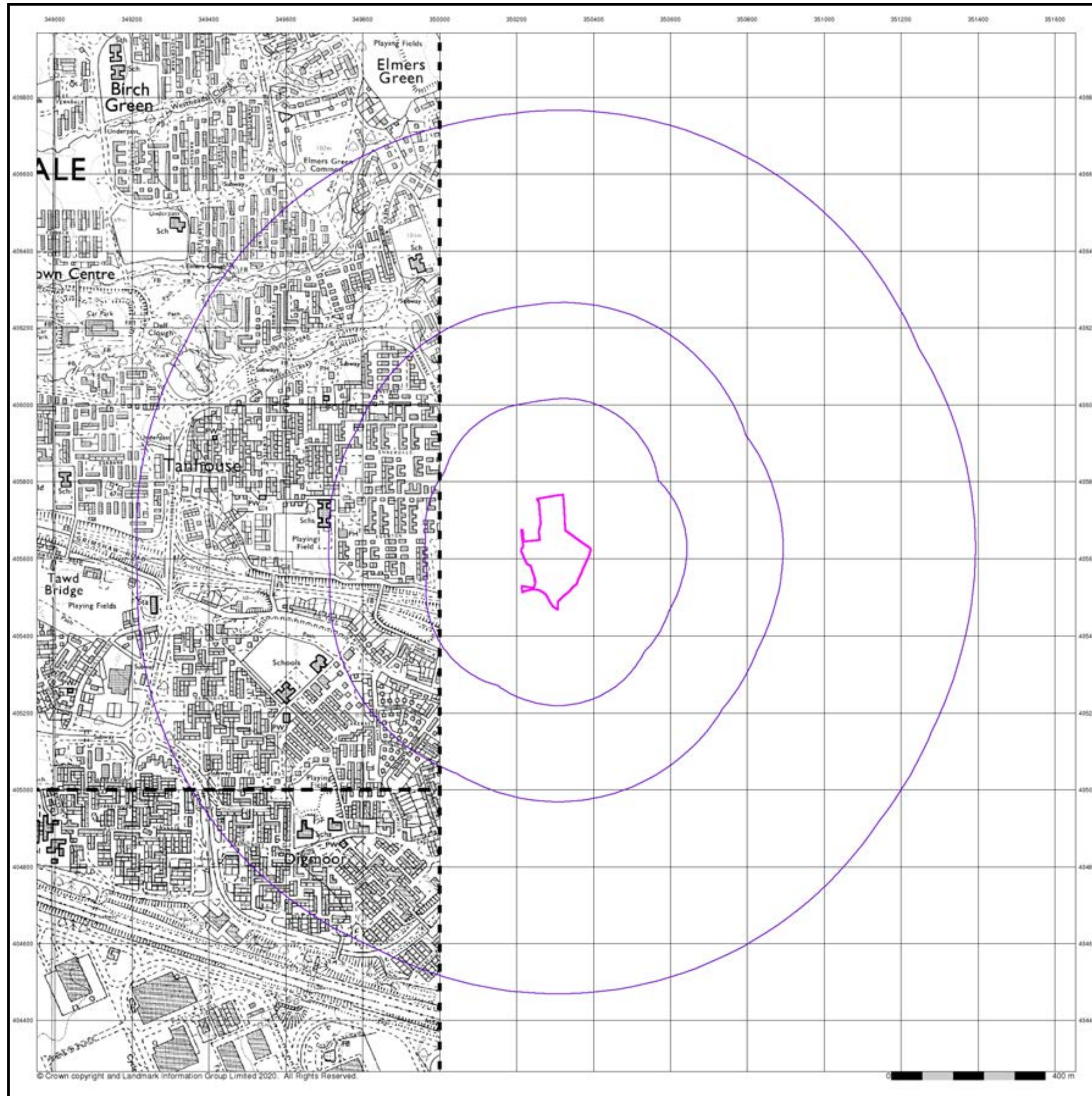
Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

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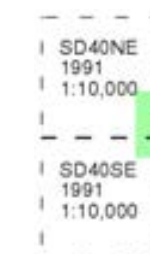
Ordnance Survey Plan

Published 1991

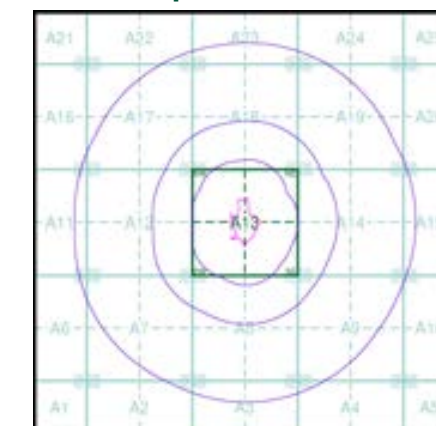
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

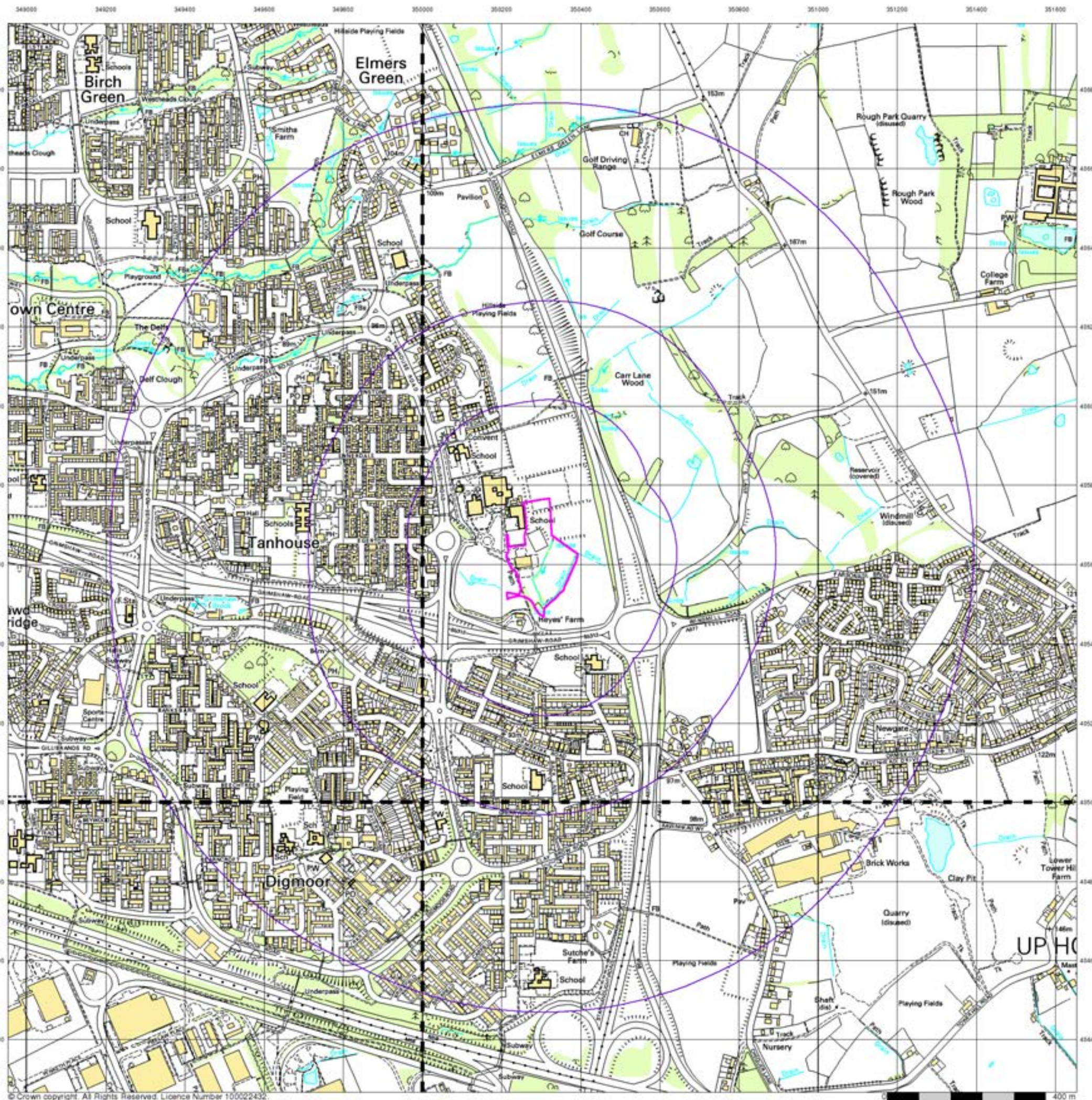


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 1999 - 2001

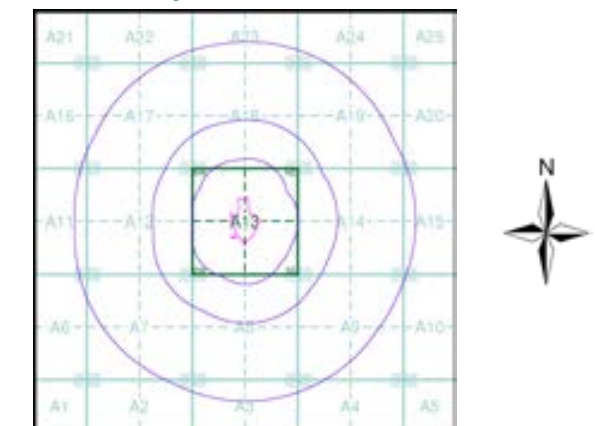
Source map scale - 1:10,000

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)

SD40NE	SD50NW
2001	1999
1:10,000	1:10,000
SD40SE	SD50SW
1999	1999
1:10,000	1:10,000

Historical Map - Slice A

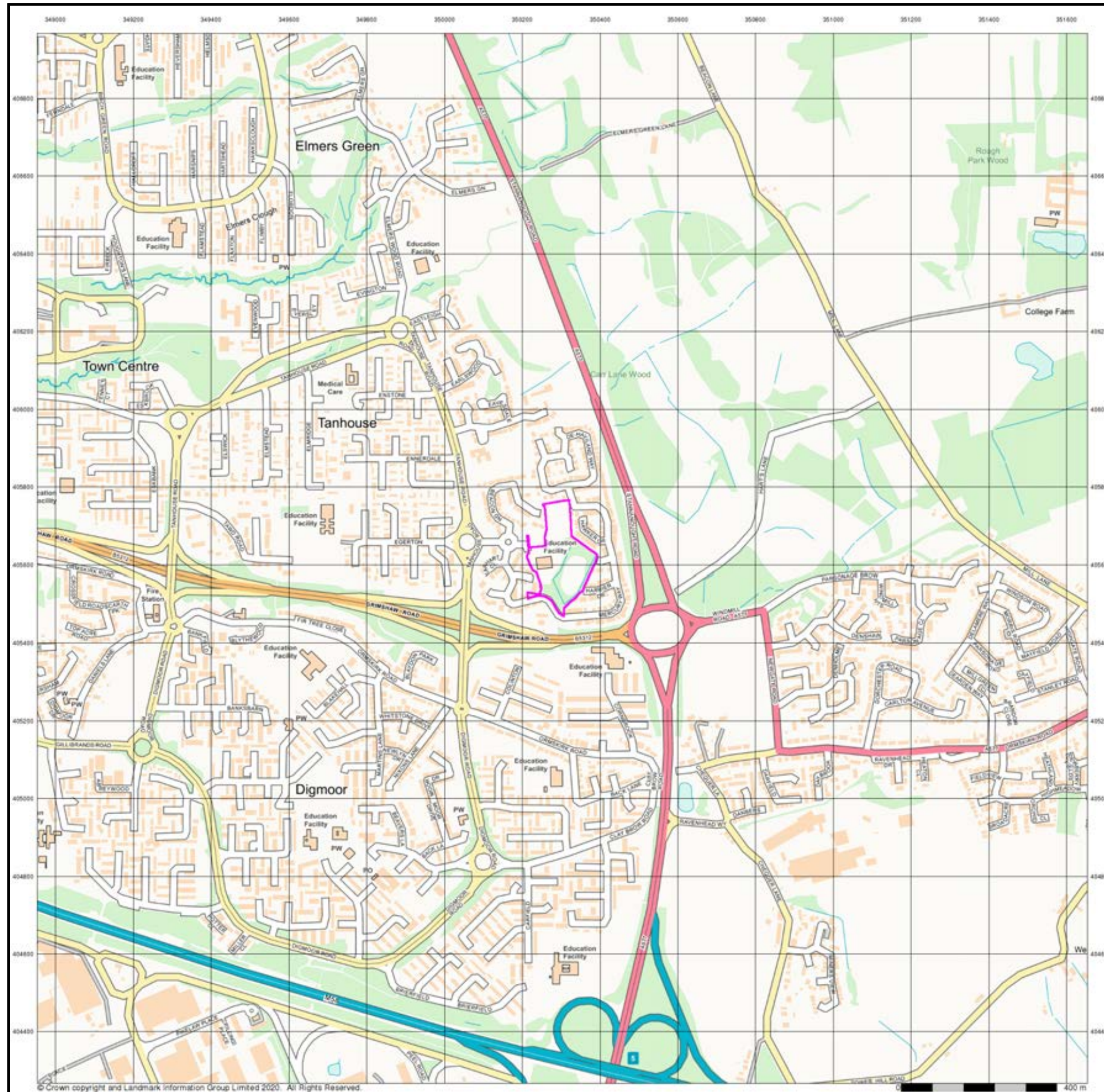


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

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Street View

Published 2020

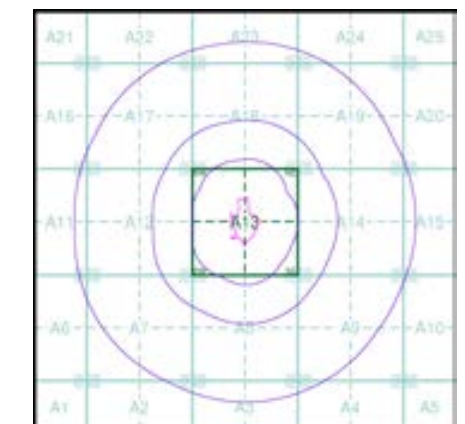
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

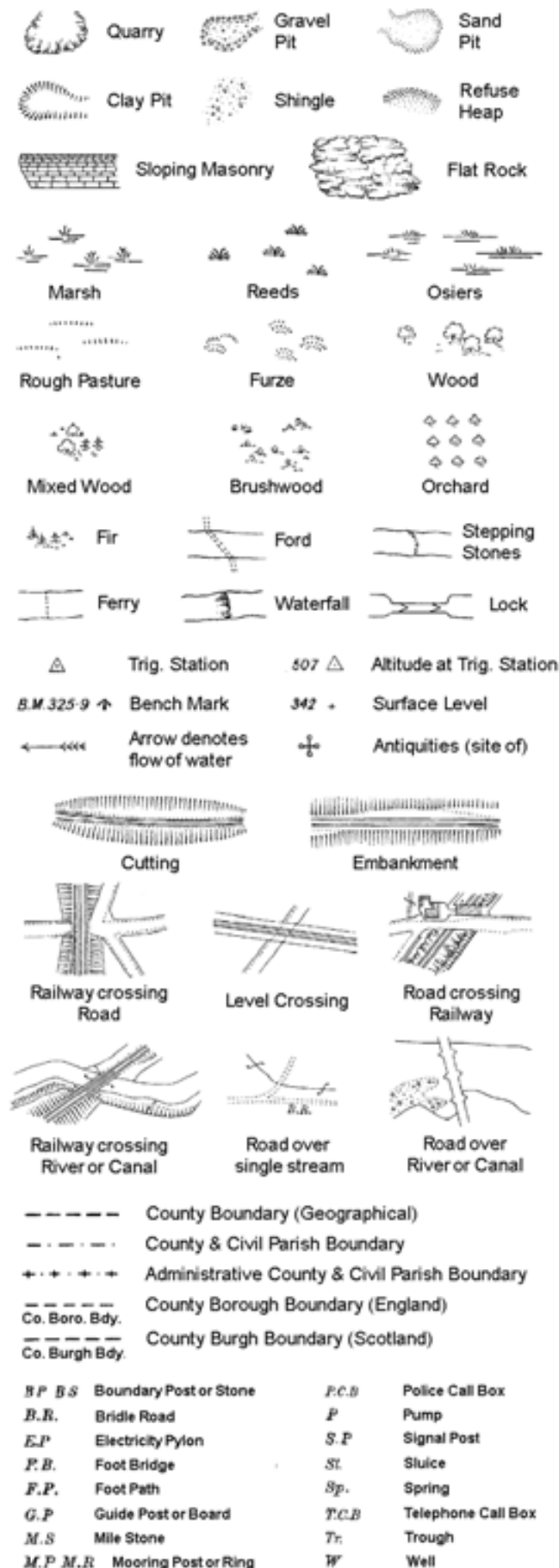
Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

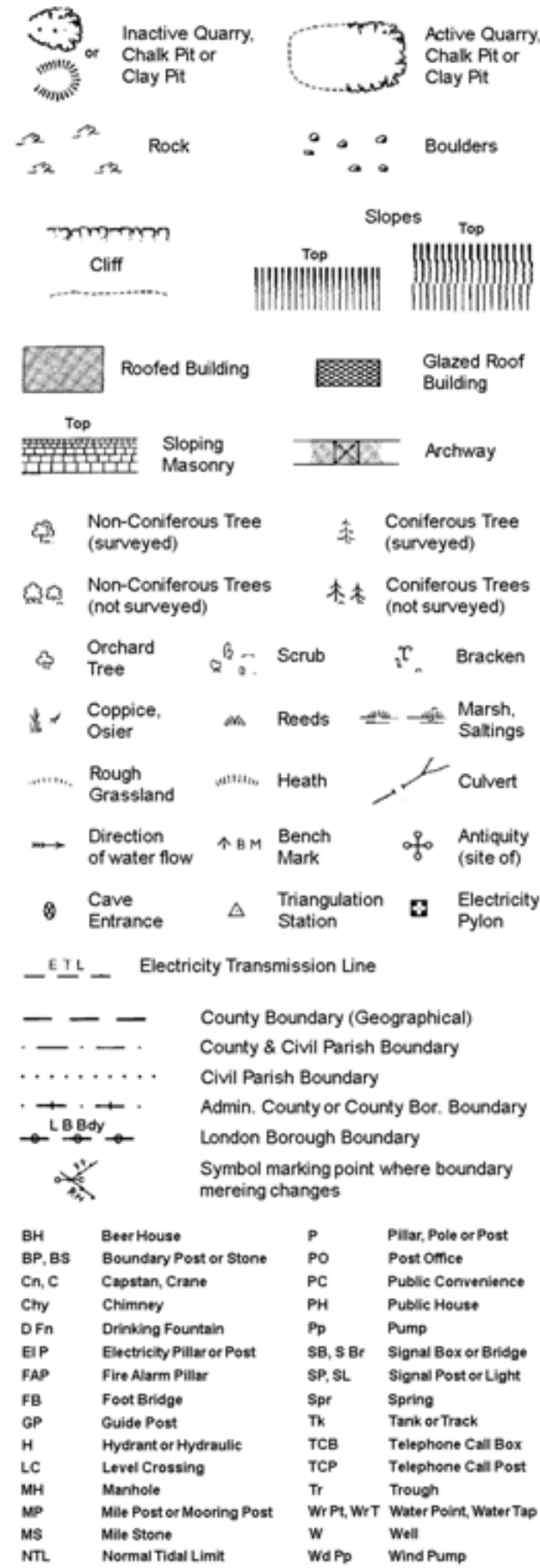
Hope High School

Historical Mapping Legends

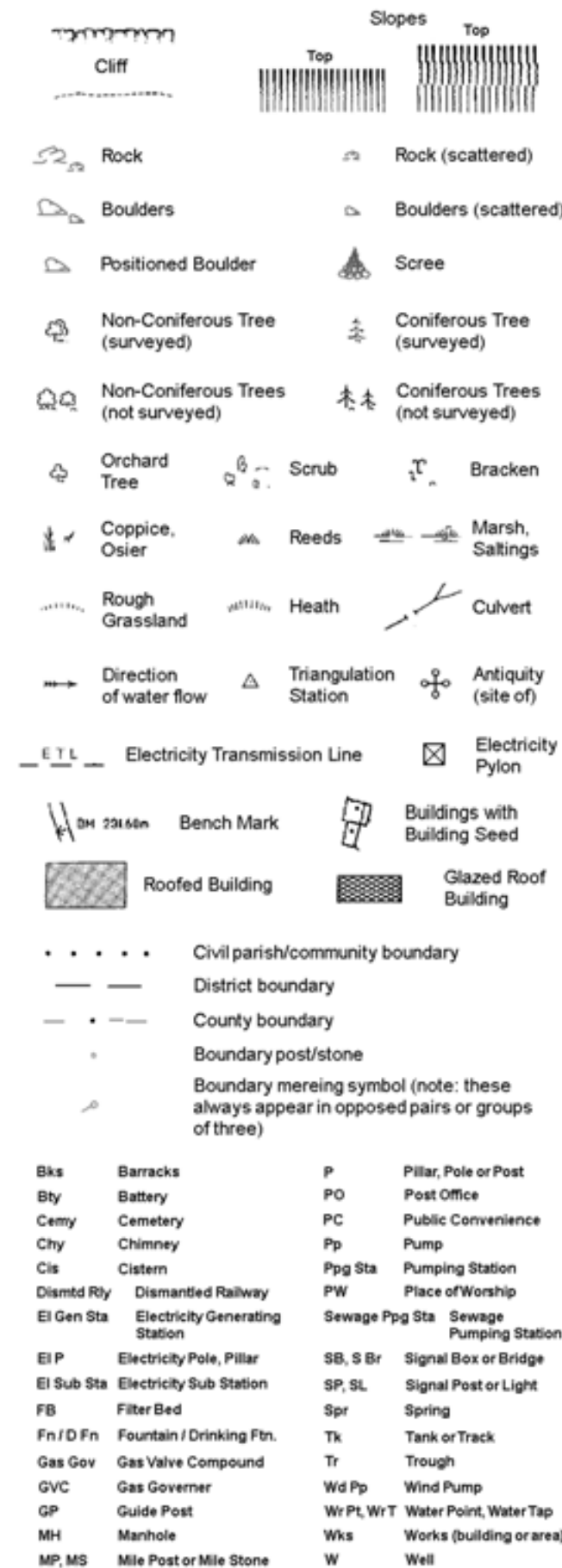
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



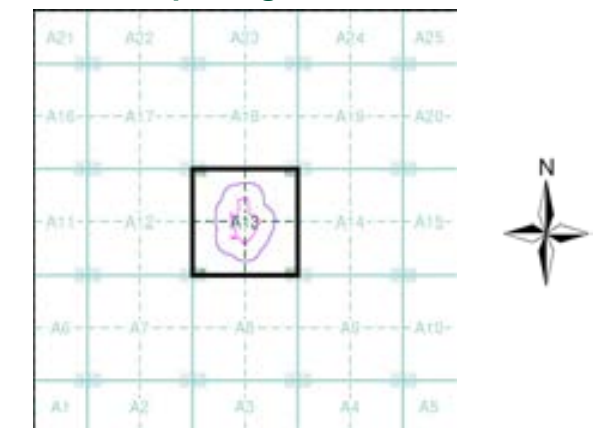
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1927	4
Ordnance Survey Plan	1:2,500	1960	5
Ordnance Survey Plan	1:2,500	1969	6
Ordnance Survey Plan	1:1,250	1974 - 1975	7
Additional SIMs	1:2,500	1980	8
Ordnance Survey Plan	1:1,250	1981	9
Additional SIMs	1:1,250	1984 - 1985	10
Large-Scale National Grid Data	1:1,250	1992 - 1993	11
Large-Scale National Grid Data	1:1,250	1994 - 1995	12

Historical Map - Segment A13



Order Details

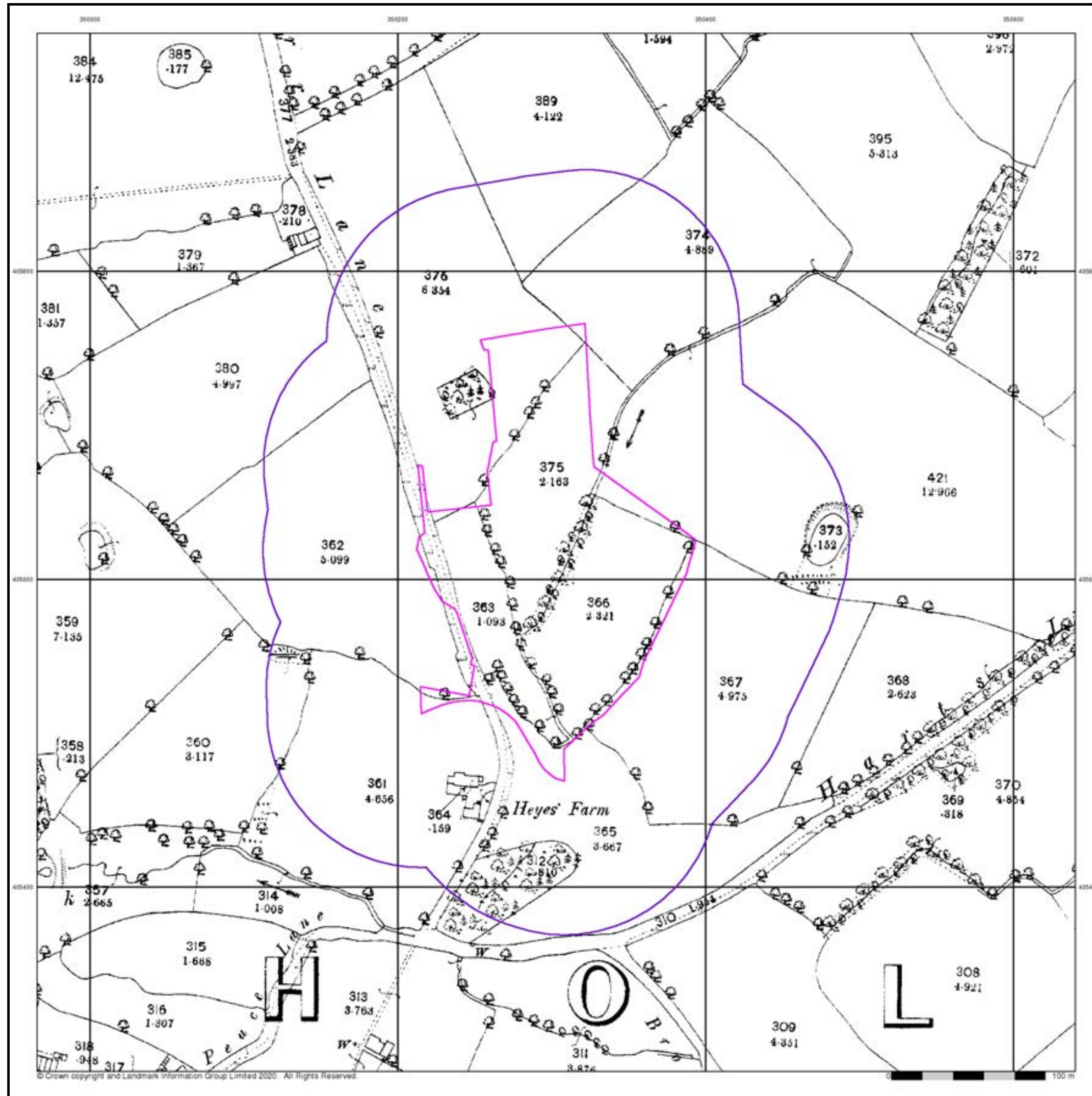
Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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Lancashire And Furness

Published 1893

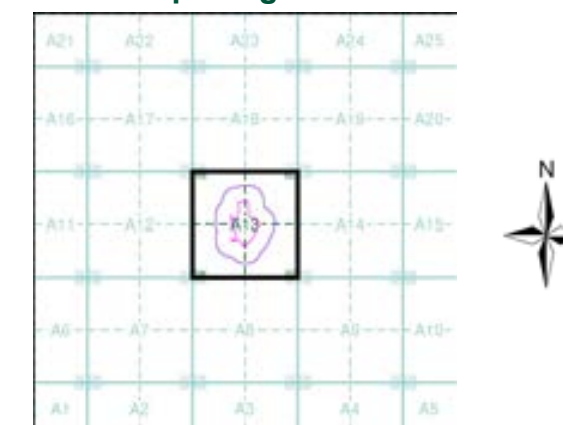
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

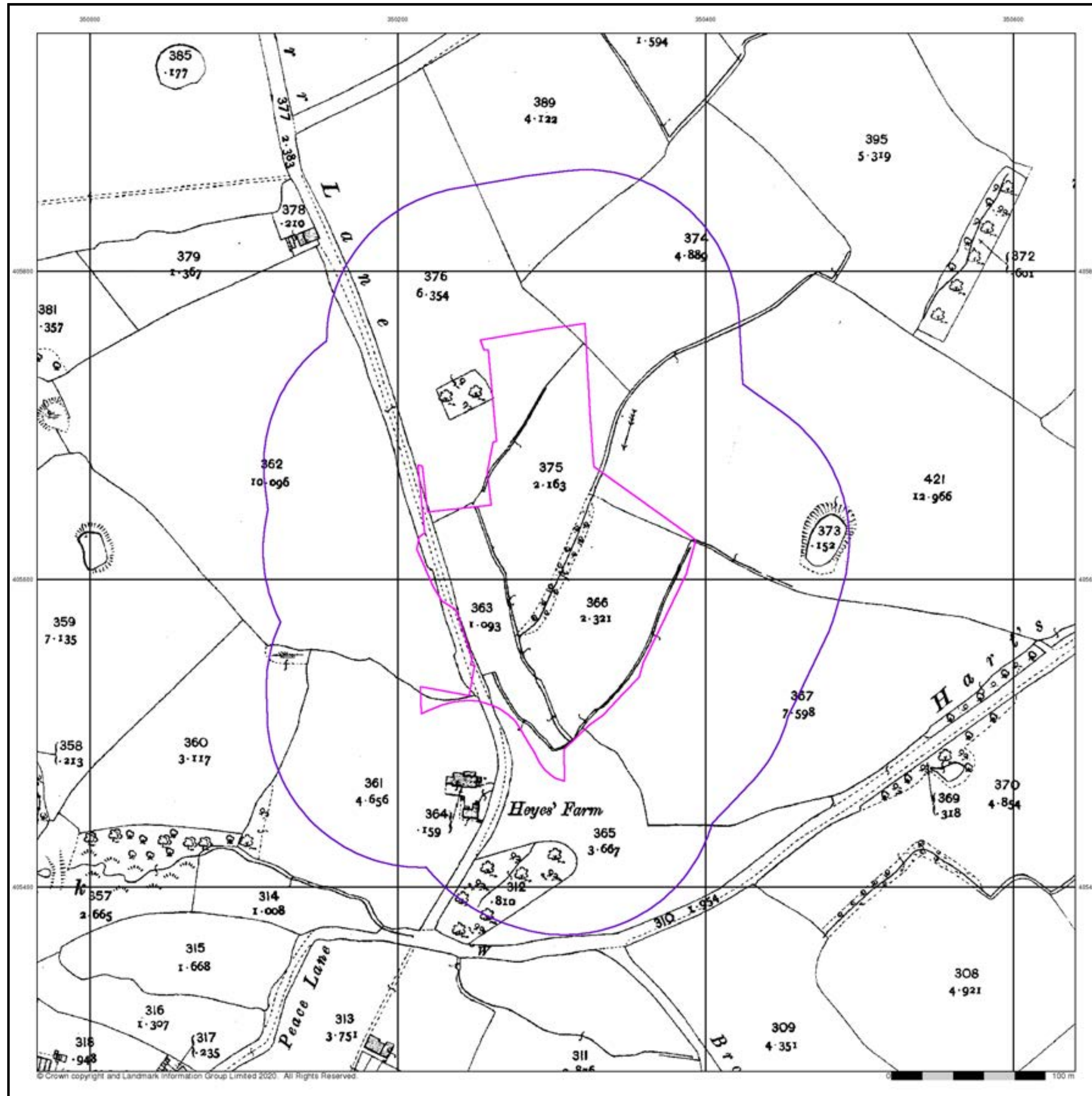


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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Lancashire And Furness

Published 1908

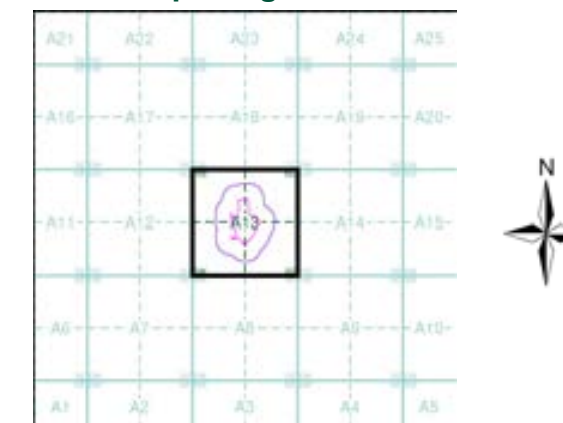
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

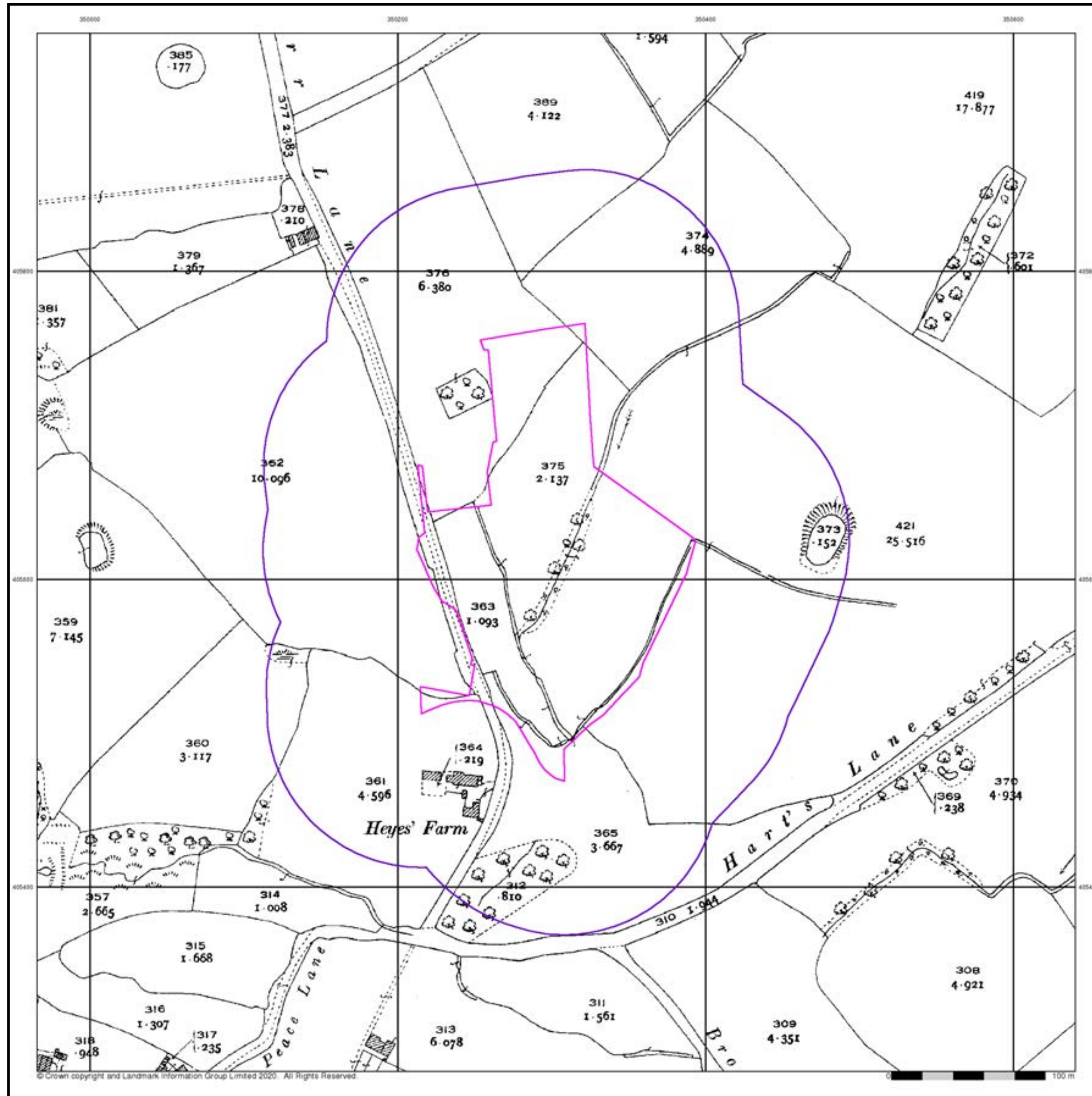


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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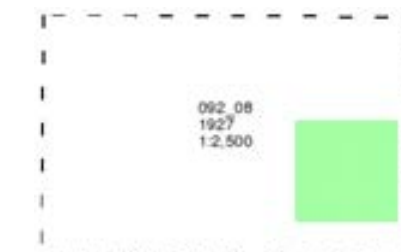
Lancashire And Furness

Published 1927

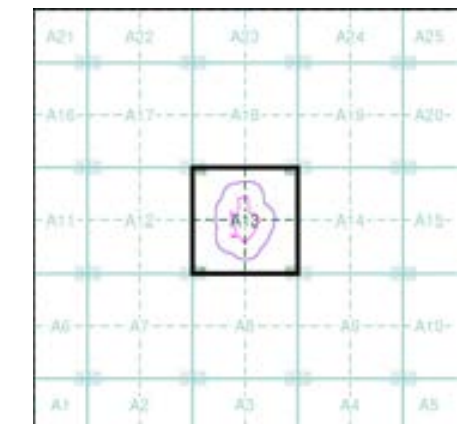
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

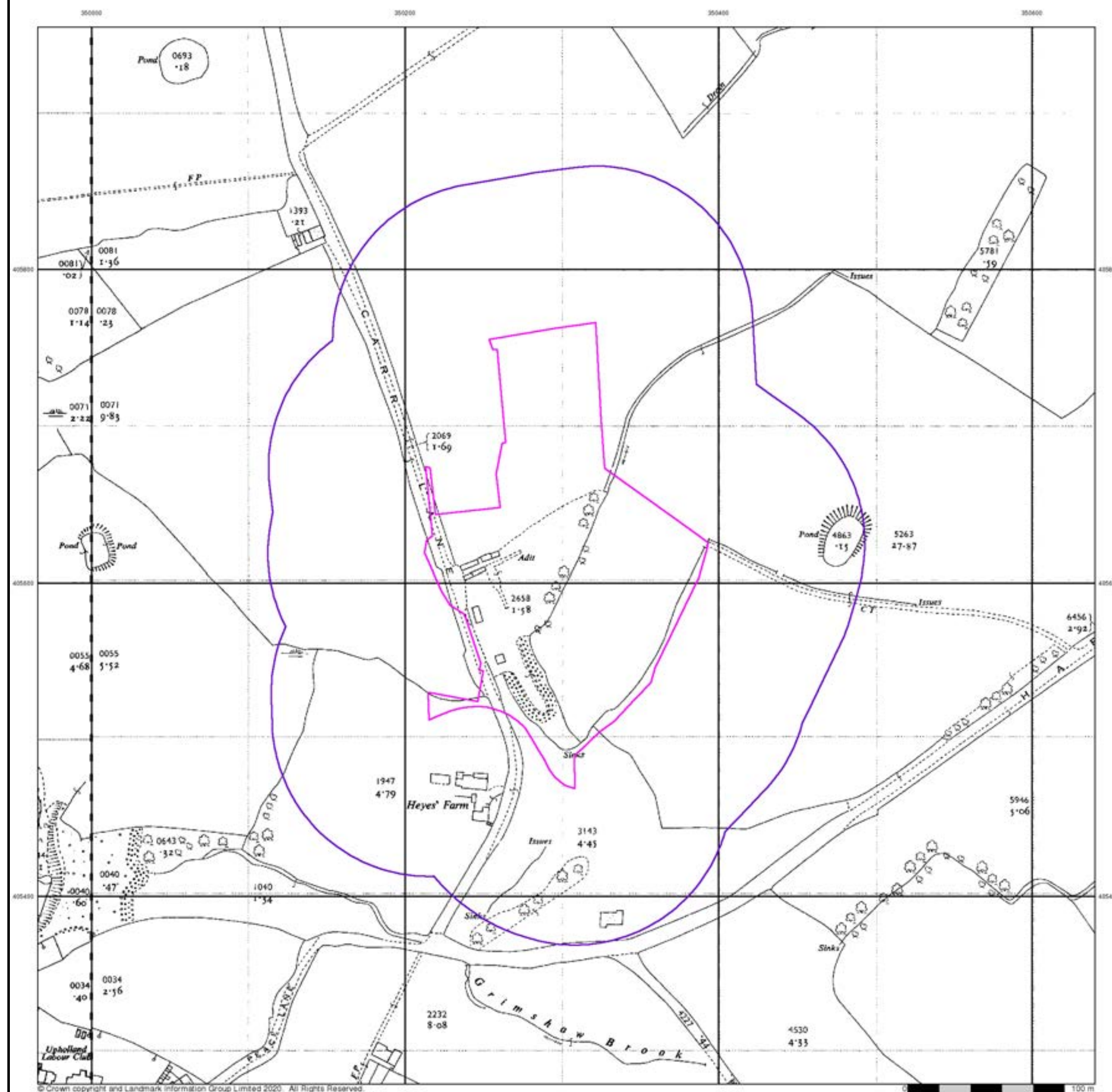


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

Hope High School



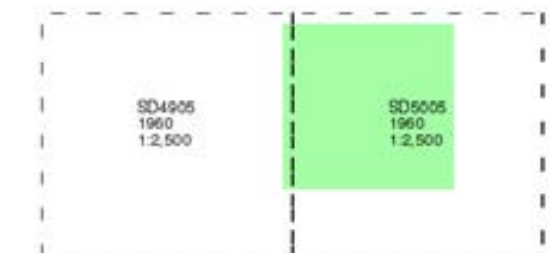
Ordnance Survey Plan

Published 1960

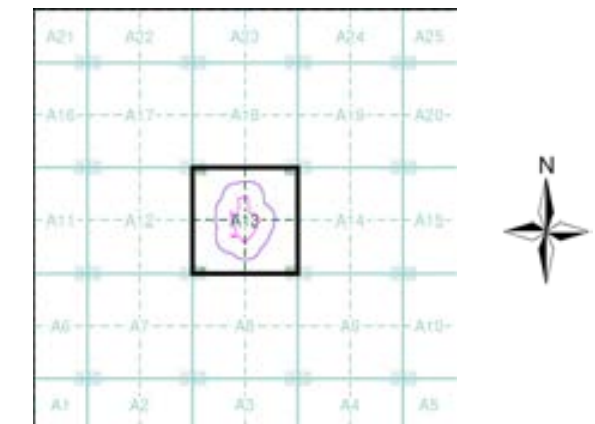
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

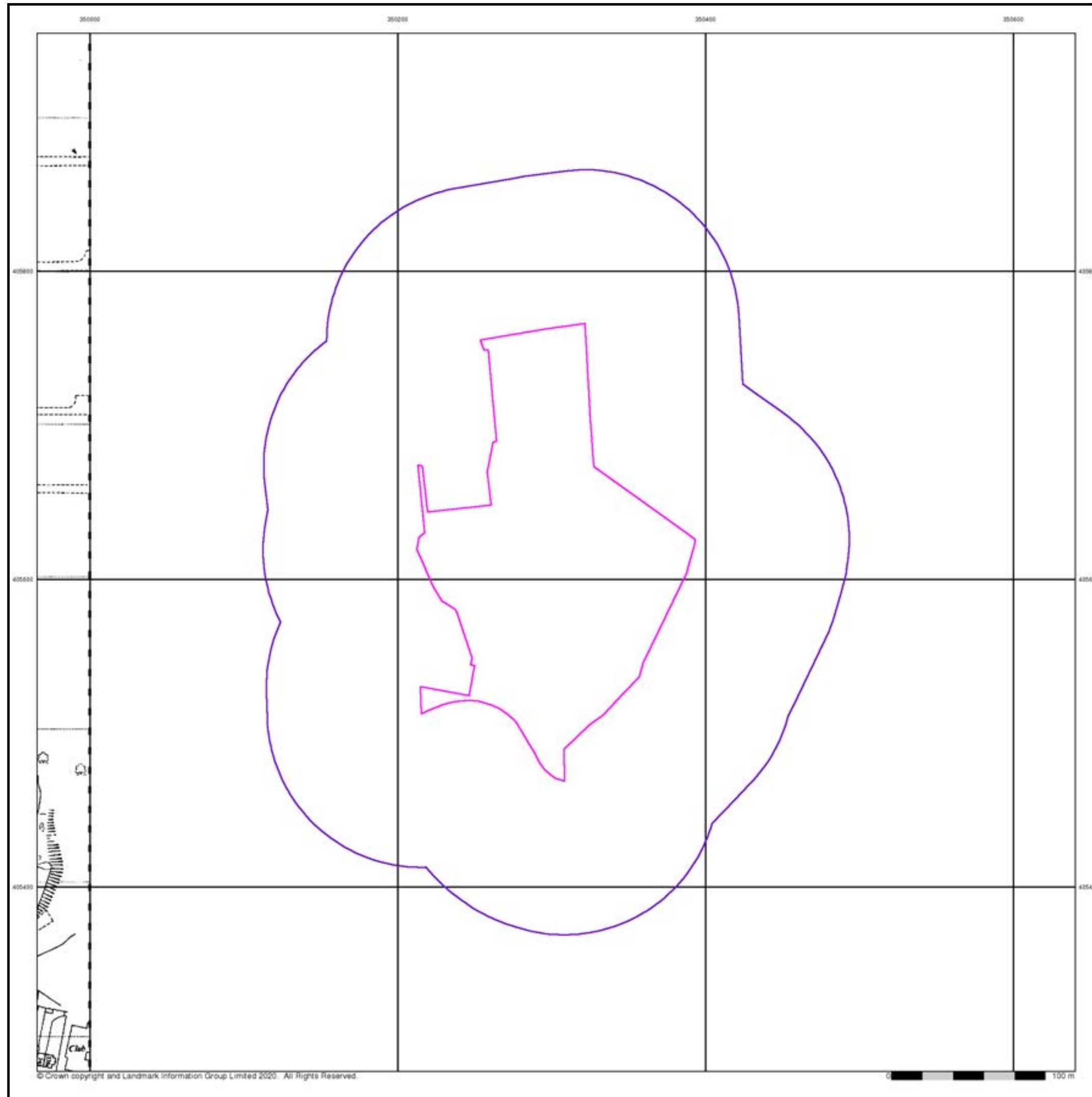
Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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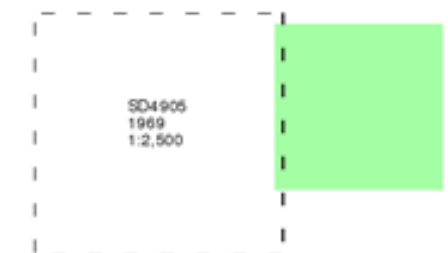
Ordnance Survey Plan

Published 1969

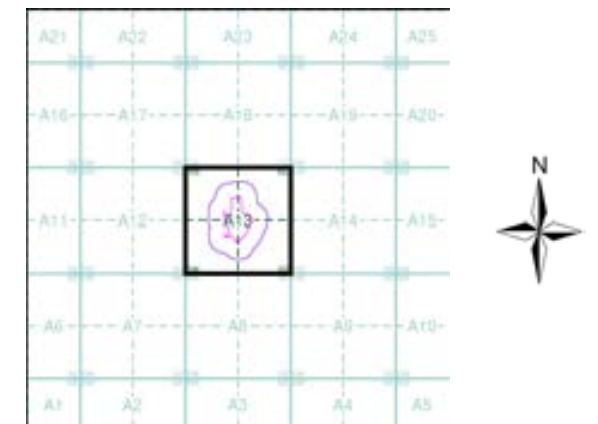
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1974 - 1975

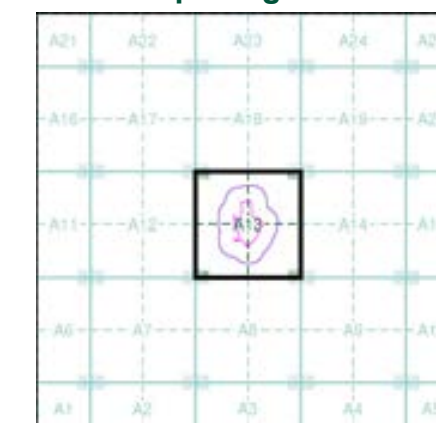
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SD4905NE 1974 1:1,250	SD5005NW 1975 1:1,250	
SD4905SE 1974 1:1,250	SD5005SW 1975 1:1,250	SD5005SE 1975 1:1,250

Historical Map - Segment A13



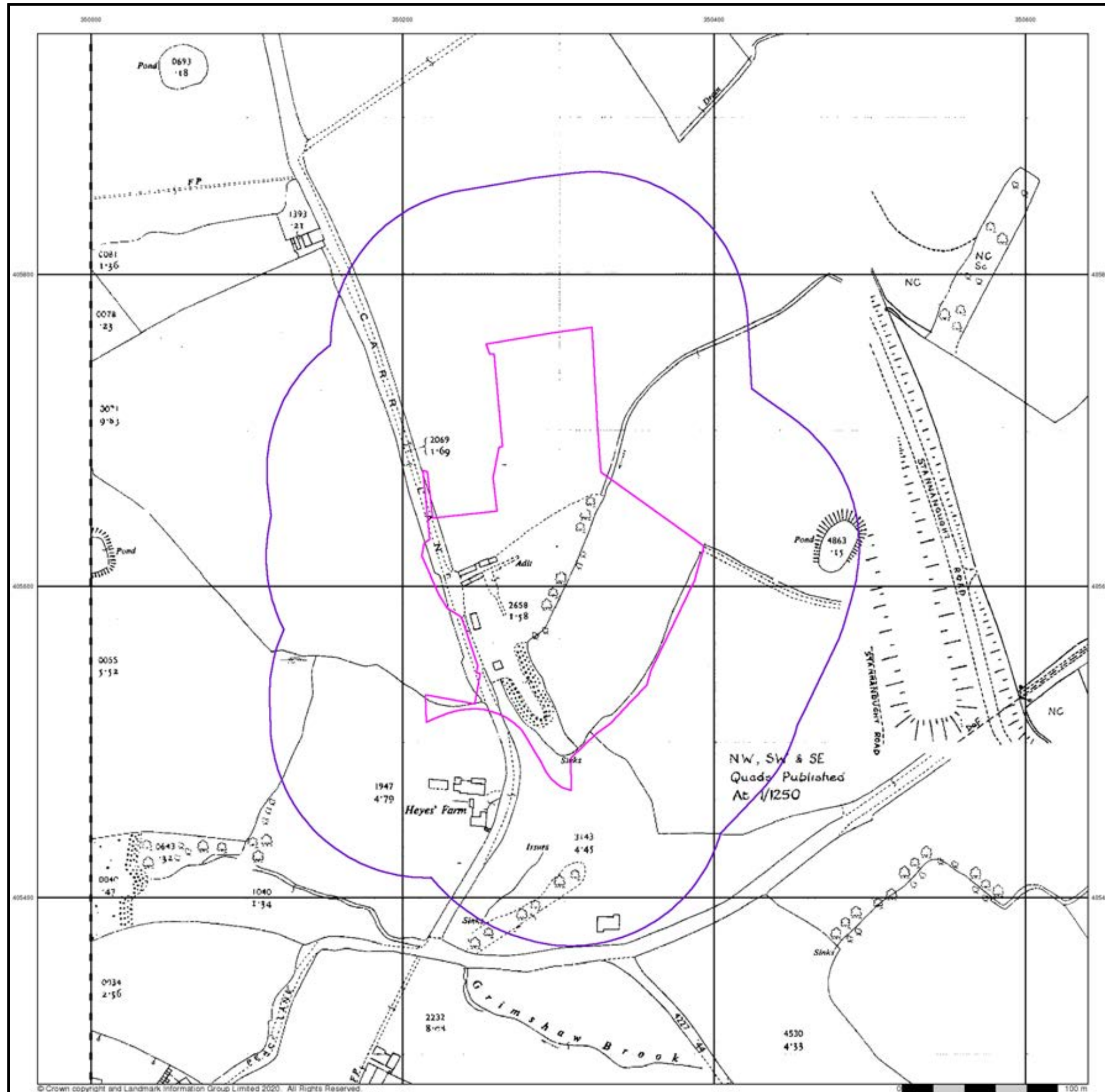
Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

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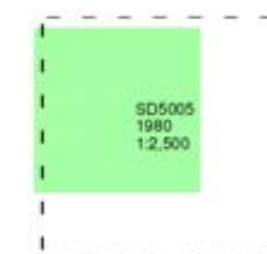
Additional SIMs

Published 1980

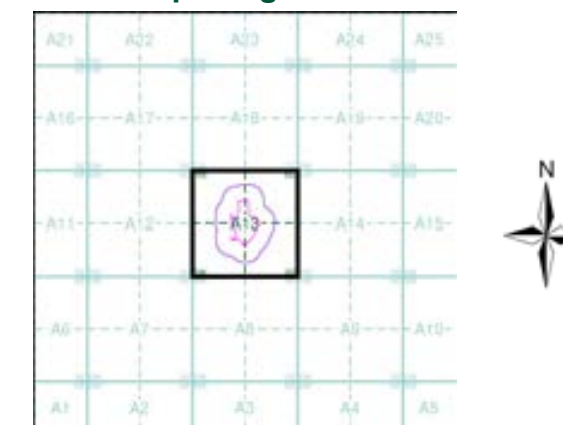
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

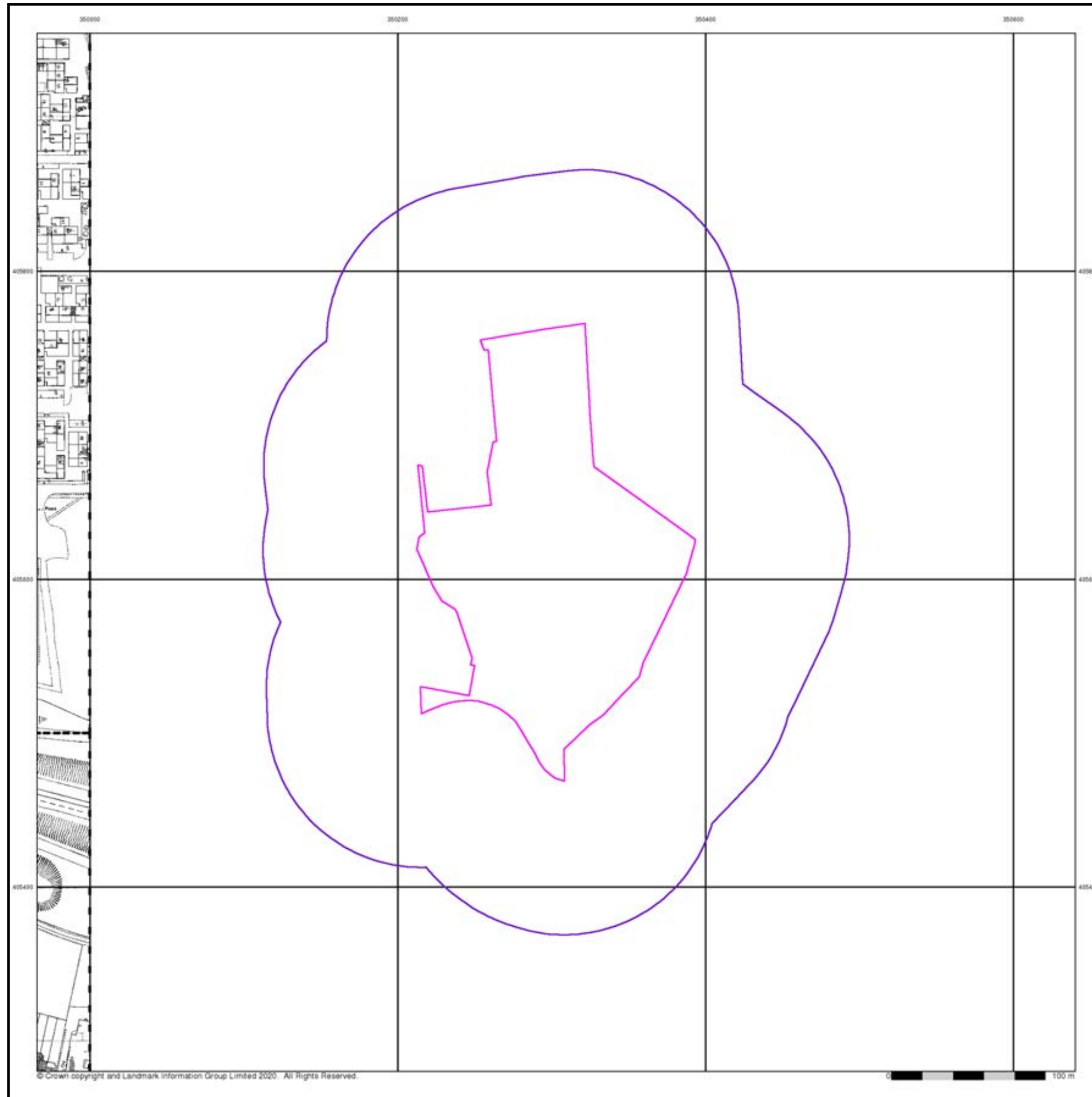


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

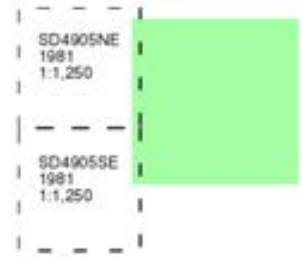
Hope High School



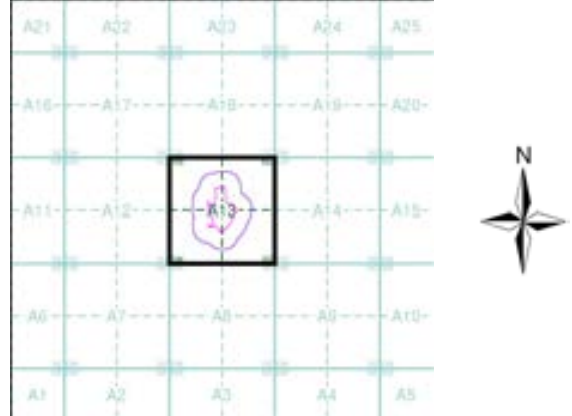
Ordnance Survey Plan
Published 1981
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

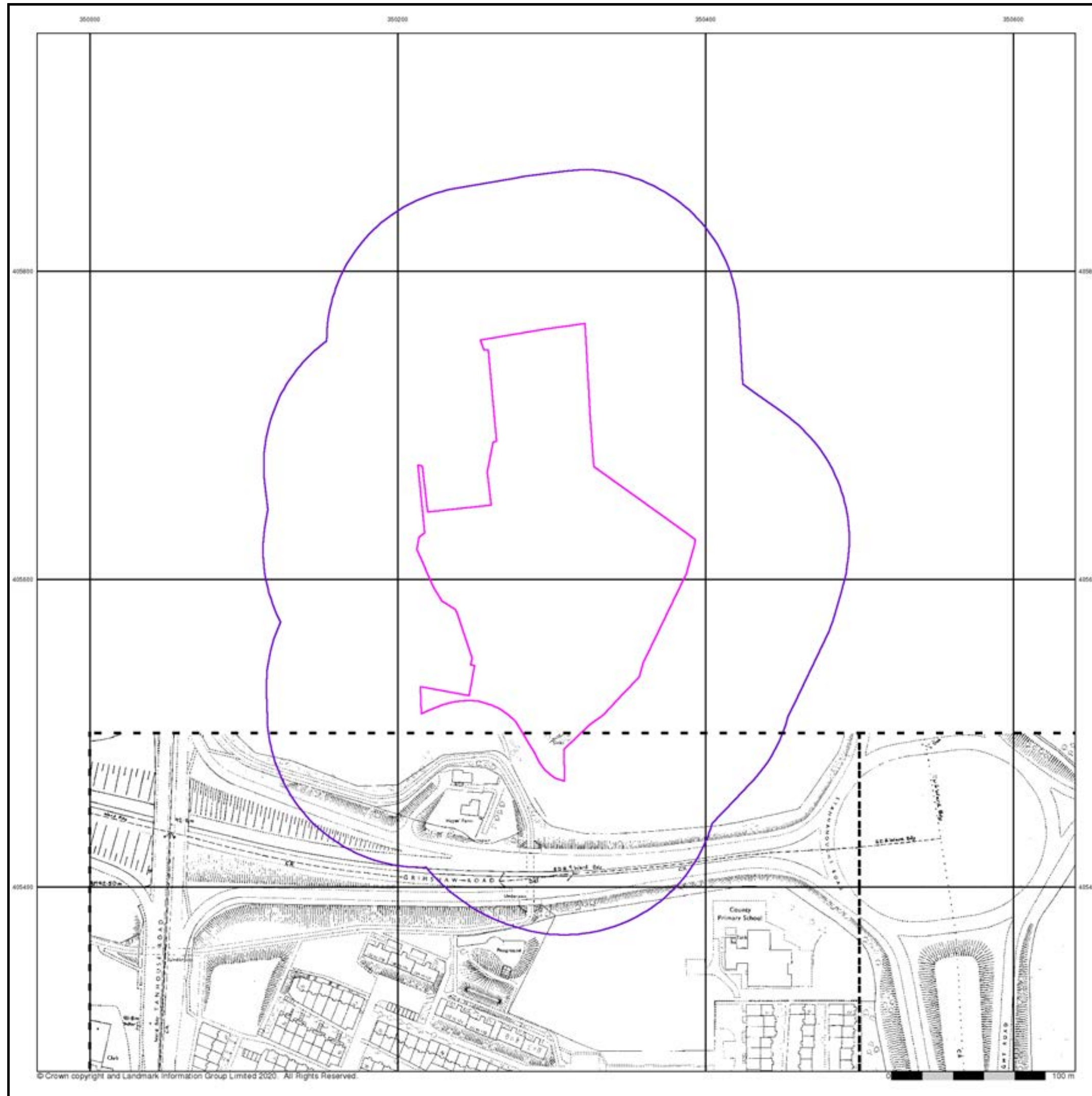


Historical Map - Segment A13



Order Details
Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details
Hope High School



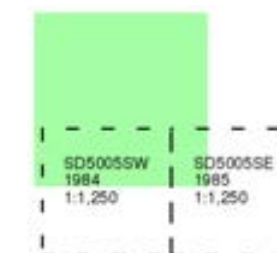
Additional SIMs

Published 1984 - 1985

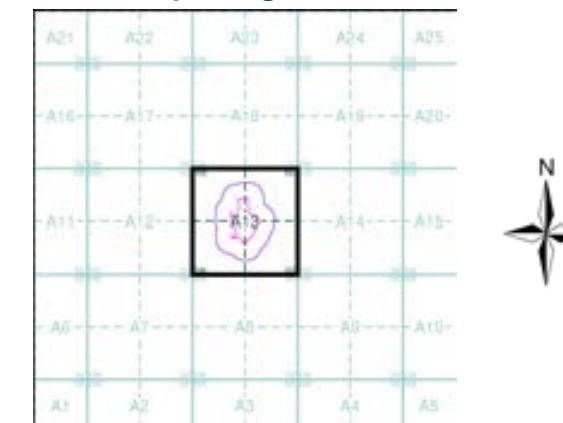
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

Hope High School

Large-Scale National Grid Data

Published 1992 - 1993

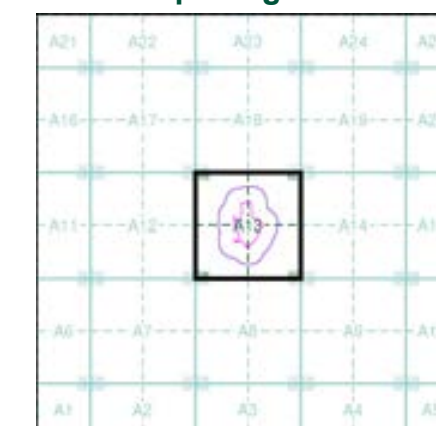
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SD4905NE 1993 1:1,250	SD5005NW 1992 1:1,250	SD5005NE 1992 1:1,250
SD4905SE 1993 1:1,250	SD5005SW 1992 1:1,250	SD5005SE 1992 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

Hope High School



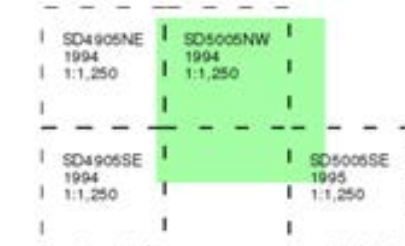
Large-Scale National Grid Data

Published 1994 - 1995

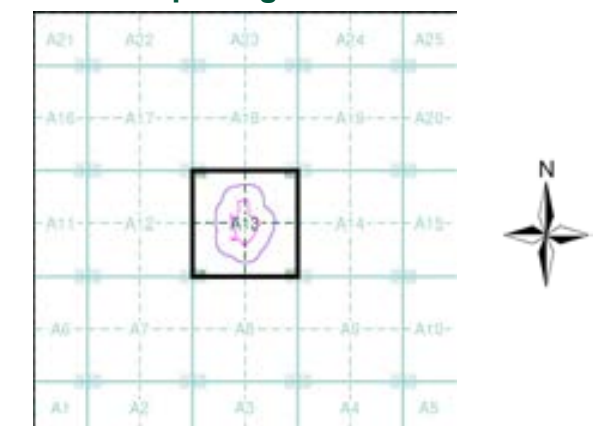
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 100

Site Details

Hope High School

APPENDIX D

LANDMARK GEOLOGY MAPS

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	SSA	Shirdley Hill Sand Formation	Sand	Not Supplied - Devensian
	LDE	Lacustrine Deposits	Clay and Silt	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone	Not Supplied - Westphalian
	WH	Woodhead Hill Rock	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	DF	Darwen Flags	Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	GAS	Great Arc Sandstone	Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	TRBR	Trencherbone Rock	Sandstone	Not Supplied - Westphalian
	ROSSE	Rosendale Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	RR	Rough Rock	Sandstone	Not Supplied - Namurian
	UH	Upper Haslingden Flags	Sandstone	Not Supplied - Namurian
	LH	Lower Haslingden Flags	Sandstone	Not Supplied - Namurian
	HLBG	Holcombe Brook Grit	Sandstone	Not Supplied - Namurian
	MARSD	Marsden Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	BBS	Brooksbottoms Grit	Sandstone	Not Supplied - Namurian
		Rock Segments		
		Faults		



Geology 1:50,000 Maps

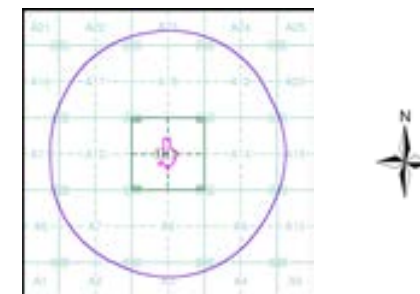
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 084
Map Name: Wigan
Map Date: 2013
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Faults: Not Supplied
Landslip: Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

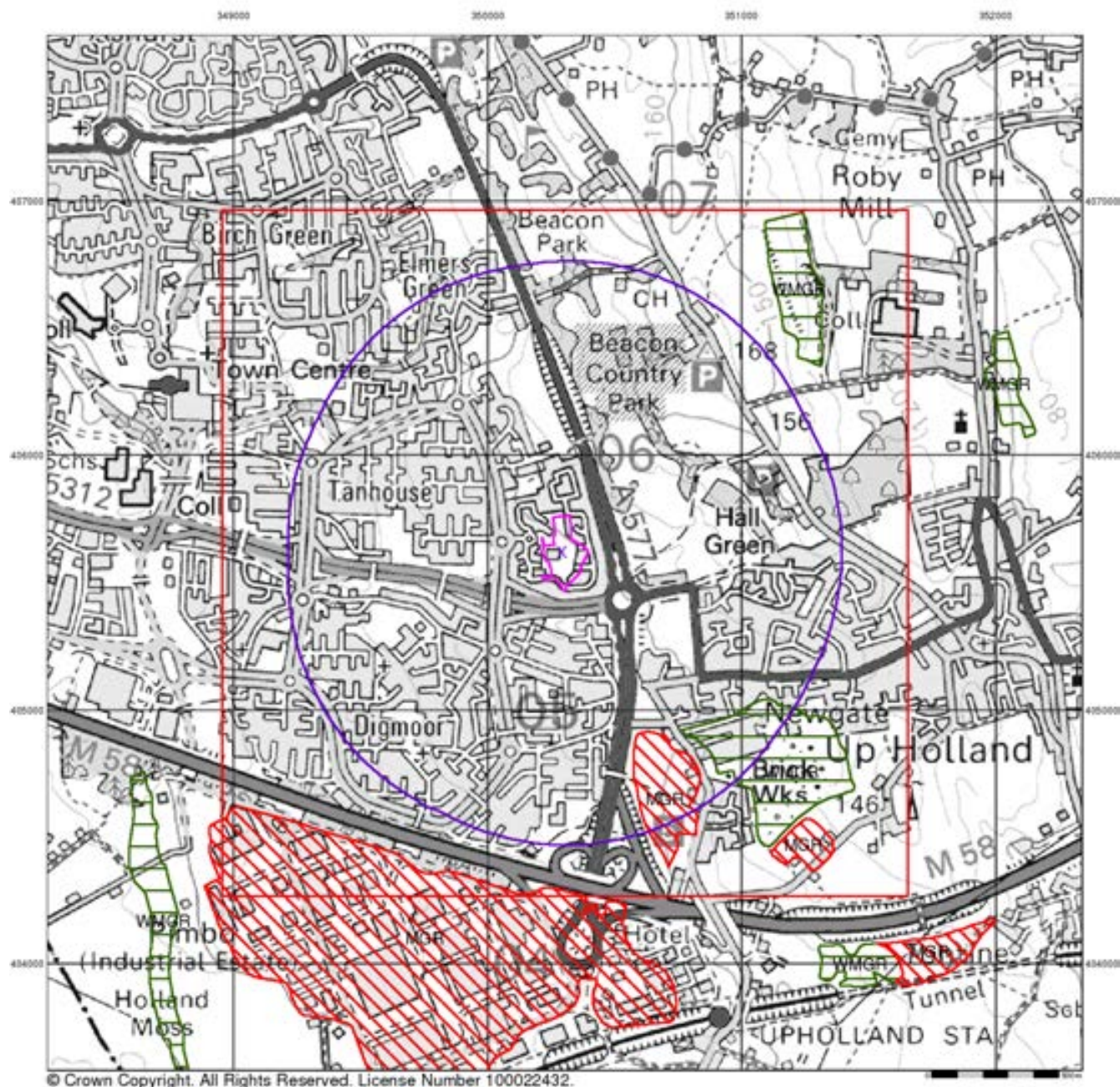
Order Number: 229706361_1_1
Customer Reference: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details:

Hope High School



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



Artificial Ground and Landslip

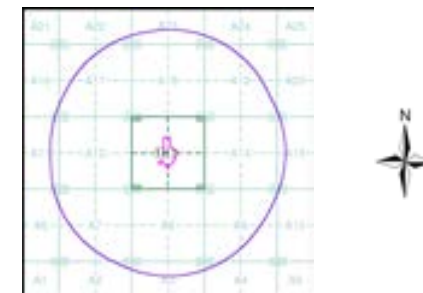
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A

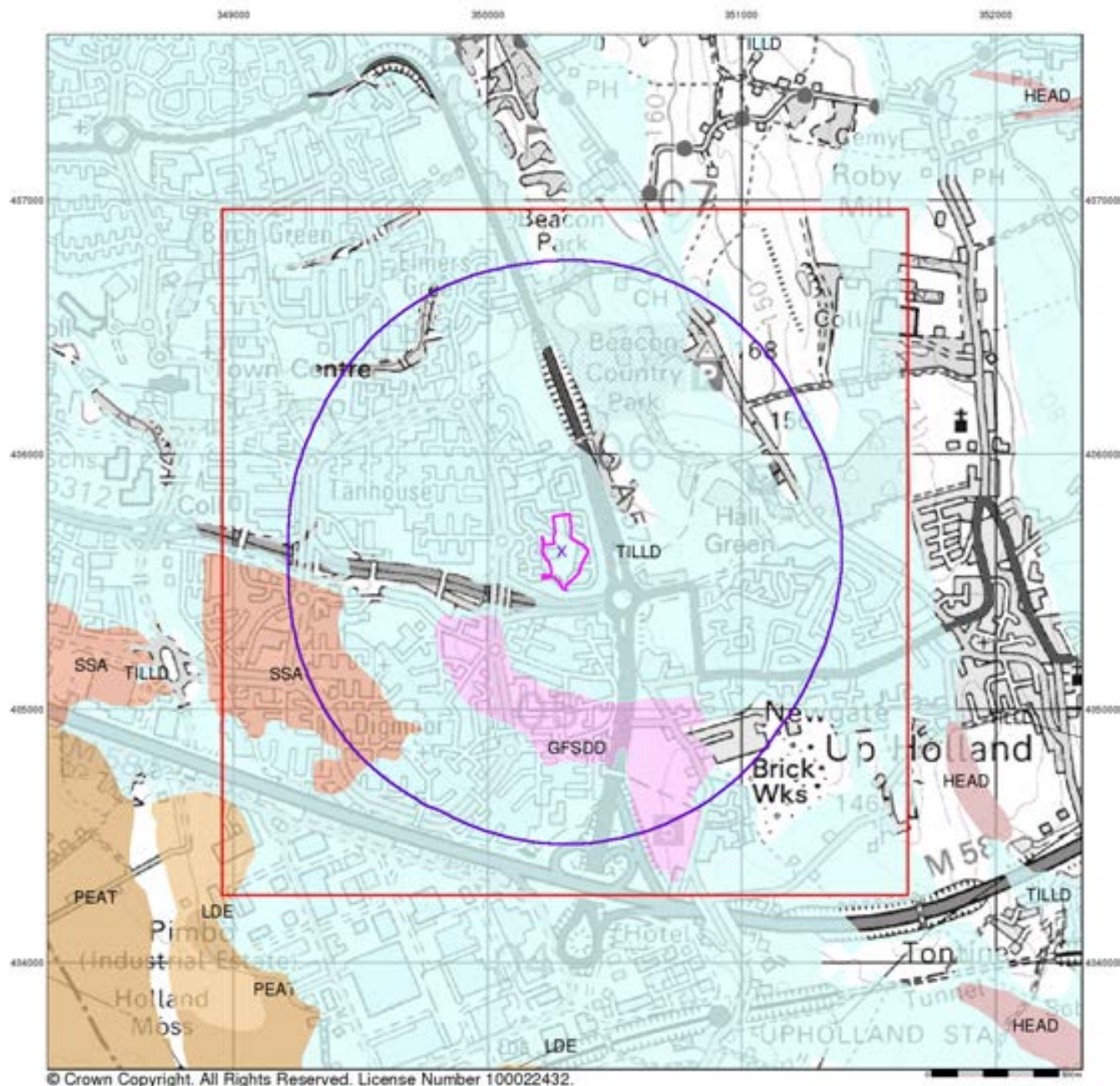


Order Details:

Order Number: 229706361_1_1
Customer Reference: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details:

Hope High School



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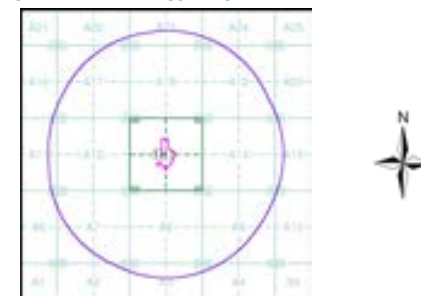
Superficial Geology

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

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

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

Superficial Geology Map - Slice A

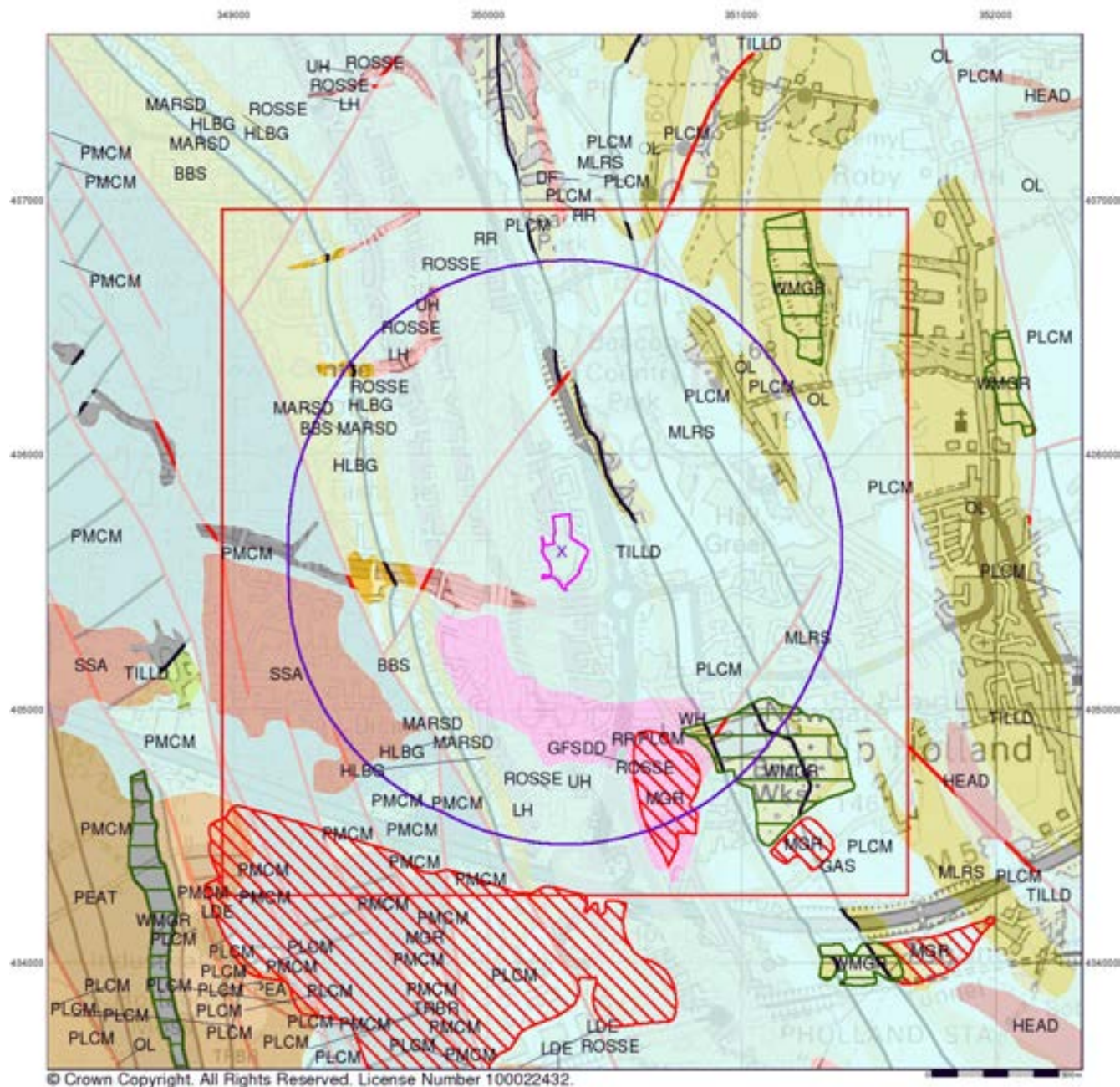


Order Details:

Order Number: 229706361_1_1
Customer Reference: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details:

Hope High School



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Combined Surface Geology

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

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

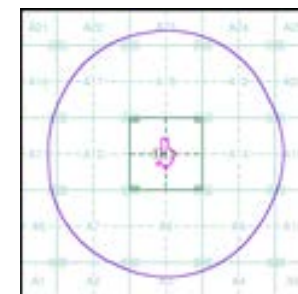
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 229706361_1_1
Customer Reference: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details:

Hope High School



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

APPENDIX E

COAL MINING REPORT

Overall Result:

FURTHER ACTION (Incl. Mine Entry Interpretive Report)

Expert Opinion:

Within the scope of this assessment, the Site is considered to be susceptible to coal mining-related ground instability. Coal mining hazards have been identified that may restrict the completion of the transaction or impact the value or security of the Site for normal lending purposes. Prior to purchase, further actions are required to appropriately quantify the hazards identified.

Will coal mining activity impact the value of the property?

POTENTIAL IMPACT ON VALUE (see pg 2)



Are there adverse mining features that should be brought to the lender's attention?

LENDER ACTION REQUIRED



Are there mining hazards that should be brought to the purchaser's attention?

HAZARDS IDENTIFIED (see pg 2)



It is important to be fully informed of all coal mining risks associated with a property before completing your purchase. Please read the next steps on page 2 carefully.

Within Coal Authority Mining Reporting Area

Yes

Report Address:

Hope High School, Hawker Drive,
Skelmersdale, West Lancashire,
WN86BJ

CON29M Questions

Assessment

1. Past underground coal mining	YES	ADVISORY	
2. Present underground coal mining	NO	PASSED	
3. Future underground coal mining	NO	PASSED	
4. Shafts and adits (mine entries) (Incl. Mine Entry Interpretive Report)	YES	SEE MEIR	
5. Coal mining geology	NO	PASSED	
6. Past opencast coal mining	NO	PASSED	
7. Present opencast coal mining	NO	PASSED	
8. Future opencast coal mining	NO	PASSED	
9. Subsidence Claims (Incl. Subsidence Claims Buffer Report)	NO	PASSED	
10. Mine gas emissions	NO	PASSED	
11. Emergency Call Out incidents	NO	PASSED	
12. Withdrawal of support	YES	PASSED	
13. Working facilities orders	NO	PASSED	
14. Payments to owners of former	NO	PASSED	

Report Details:

TF Reference:

TFC20200107144638-WN86BJ

Client Reference: NW113/03/02

Date: 08/01/2020

User Key:

Lender Further Action

Conveyancer Further Action

Purchaser Advisory

Passed - No Further Action

These colour signatures are used throughout the report. For the full key, please see the back of the report.

Official Coal Authority Licensed Data: V1_154_20191209_F | Updated 05-01-2020

Please see below Terraforma's expert opinion and next steps with regards to the property. These may be copied into your Report on Title. No physical site inspection has been carried out. This official CON29M report highlights only the information which we have determined should be drawn to your attention however, other risks may be present. Relevant prudent enquiries for the purchaser are highlighted within the Next Steps.

● ● Report Conclusions:

Within the scope of this assessment, the Site is considered to be susceptible to mining-related ground instability. Prior to purchase, further actions are required to appropriately quantify the hazards identified.

Given the shallow depth of coal mining beneath the Site and the proximity to the coal seam recorded to have been mined directly beneath the Site, any movement within the worked coal seams beneath the Site, may trigger the upward migration of voids and consequently cause ground instability at surface.

A mine entry is recorded within 20 metres of the Site. See Mine Entry Interpretive Report for detailed findings and an expert interpretation of the risk of instability.

● ● Next Steps:

Please see the Next Steps within the Mine Entry Interpretive Report.

● If you are planning on altering or developing the Site:

The Site is located within a "High Development Risk Zone", as defined by the Coal Authority. Due to the presence of recorded and/or unrecorded coal mining activity, any future development of the Site may trigger ground collapse and/or subsidence.

It should be noted that prior to site works or future development, your local planning authority may require you to commission a full Coal Mining Risk Assessment (CMRA) or Site Investigation by a qualified mining geologist/engineer.

In the event, you require further professional support, please contact Terraforma directly to discuss the appropriate further steps.

Contact the report author by calling the Terraforma team on: 0330 900 7500

This official CON29M Non-Residential Coal Mining Report is a site-specific interpretation of coal mining activity. These enquiries are The Law Society CON29M Coal Mining search enquiries and are used with permission of the Law Society. The Law Society CON29M Coal Mining search enquiries are protected by copyright owned by The Law Society of 113 Chancery Lane, London WC2A 1PL. Terraforma's Terms and Conditions are applicable at the time the report was produced.



Mine Entry Interpretive Report

This report has been prepared using data licensed to Terrafirma by the Coal Authority at the time produced.

● Mine Entry Information

If you live in a mining area, there is a small risk that your home may be affected by ground movement associated with mine entries.

To identify if your property is within an area of possible ground movement, Terrafirma expertly model the actual or plotted position of the mine entry, its known or assumed diameter, the local geological conditions (including depth to rockhead, rock and soil properties and hydrogeological factors), historical land use and key attributes of the mine entry such as its age and depth. Using official Coal Authority and British Geological Survey data, Terrafirma have calculated a Zone of Influence (ZOI) for each individual mine entry to provide an accurate representation of the risk to your property. More information on how Terrafirma model the risk from mine entries can be found at the back of this report.

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner. The mine owner will treat the mine entry and arrange for repairs to the property to be carried out to reasonable satisfaction of the property owner. The mine owner may also be liable to pay compensation for damage to moveable property such as furniture.

Please note – The Coal Mining Subsidence Act 1991 does not cover damage caused by extraction of minerals other than coal. It is recommended that an expert opinion that considers the risk of ground movement associated with non-coal mining and other ground perils is obtained prior to property purchase. For more information, visit: www.understandtheground.co.uk.

Expert Opinion:



The mine entry ZOI extends beneath the building footprint.



The mine entry ZOI extends beneath the property boundary.



The mine entry poses a risk of ground instability and requires further investigation.

Any insurance given with previous mining reports is applicable to this Mine Entry Interpretive Report.



For any mining or ground related issues
please contact the experts at Terrafirma

Call us on: 0330 900 7500

Email our team: info@terrafirmasearch.co.uk

The following 2 mine entries have been identified within 20 metres of the Site and are shown on the Mining Hazard Map:

Mine Entry Reference: 350405-003	
Entry type	Shaft
Mineral extracted	Coal
Source of entry	Ab Plan:NW399
Mine entry name	Holland moor No 2 Colliery Shaft
Depth of shaft (m)	
Diameter of shaft (m)	2.5
Is the entry treated?	Yes
Treatment details	Records held by the Coal Authority indicate that this shaft was treated by Lancashire County Council in 1973
Treatment date	
● Who owns the entry?*	Lancashire County Council
Distance (m)	0

*If result is not 'Coal Authority (CA)', further enquiries should be made with the Mine Entry Owner to identify subsidence liability.

Mine Entry Reference: 350405-002	
Entry type	Adit
Mineral extracted	Coal
Source of entry	Ab Plan:NW399
Mine entry name	Holland Moor No 2 Colliery Adit
Depth of shaft (m)	
Diameter of shaft (m)	2.5
Is the entry treated?	Yes
Treatment details	Records held by the Coal Authority indicate that this adit was treated by Lancashire County Council in 1973
Treatment date	
● Who owns the entry?*	Lancashire County Council
Distance (m)	0

*If result is not 'Coal Authority (CA)', further enquiries should be made with the Mine Entry Owner to identify subsidence liability.

●● Risk of Instability:

Two mine entries are recorded within the central-western part of the Site boundary (see Mining hazard map for documented locations). The northern mine entry is documented to be an adit (a horizontal/near-horizontal entrance into a mine) and the associated adit tunnel is documented to extend to the north-east. The southern mine entry is documented to be a shaft. Both mine entries are documented by the Coal Authority to have been treated by Lancashire County Council in 1973. As the mine entries have been treated, there may be a reduced risk of instability. However, as the details/specifications of treatment works undertaken have not been confirmed within the record, it would be prudent to assume that a residual risk of ground instability remains.

The 'Zones of Influence' of the mine entries have been calculated based on the depth and composition of superficial deposits, and the mine entry diameters. According to the calculation, the 'Zones of Influence' of both mine entries would extend within the Site boundary. The 'Zone of Influence' of the adit



also extends beneath the existing building (location of buildings/structures within Site boundary based on current OS mapping). Therefore, in the statistically unlikely event these mine entries collapse or become unstable in future, they could affect the ground stability of the Site grounds and the adit could affect the ground stability of the existing building.

The mine entries are recorded from historical sources and their precise locations have therefore not been confirmed. A potential error radius of 8 metres has therefore been applied to their locations. Taking this potential deviation into account, the existing building could also be within the influence of the mine shaft, if located further north of its documented position.

The Site is underlain by historical shallow underground coal workings associated with the “Lower Mountain” seam. The coal seam is recorded to be approximately 0.4 metres thick. Workings within this seam are calculated to occur at a depth of approximately 11-23 metres beneath the Site. As a general principle, where the ratio of competent cover rock thickness to worked seam thickness is less than 10:1 the surface is considered more likely to be susceptible to ground movement. This is because movement within the workings can more easily propagate to the surface. As the exact thickness of workings beneath the Site is unknown, it is assumed to equate to the seam thickness. With this consideration, the ratio of competent rock cover to worked thickness is considered to be sufficient to hinder the upward migration of voids. Therefore, there is a reduced likelihood that these workings would cause subsidence issues for the Site if they became unstable in future.

Two coal seams, named “Lower Mountain” and “Upper Foot”, are recorded to outcrop at/near surface beneath the central part of the Site, coursing parallel to each other in a north-south direction. There is an increased potential for unrecorded historical mining features to occur along/near coal outcrops as the coal is easily accessible where it intercepts the surface/near-surface. Such features, which may include mine entries, trial pits and ‘Bell Pits’, can cause subsidence issues where present.

In addition, unrecorded shallow coal mine workings associated with the above coal seams are suspected to occur beneath/in the immediate vicinity of the Site. If unrecorded workings are present at shallow depths beneath the Site, movement within the workings could cause ground instability at the surface.

●● Next Steps:

Terraforma recommend that an appropriate commercial RICS Structural and/or Building Survey is acquired for any properties/ structures present on the Site in question to assess, amongst other important considerations, their structural condition. This report will highlight any subsidence-related defects, which may relate to ground instability, while also noting any serious or dangerous issues that may require attention. This survey will also include advice on any defects, repairs or maintenance decisions.

It is recommended that the locations of mine entries (areas marked as ‘Further Investigation Zone’ or ‘Affected Areas’) are monitored for any changes that may be indicative of subsidence.

If there is any change in the site use (e.g. public access or development), it is recommended that the appropriate precautions are taken. This may involve erecting safety fencing around the mine entries or conducting a full mining investigation if development is to be undertaken within the areas marked as ‘Further Investigation Zone’ or ‘Affected Areas’.



It should be noted that prior to site works or future development, your local planning authority may require you to commission a full Coal Mining Risk Assessment (CMRA) or Site Investigation by a qualified mining geologist/engineer.

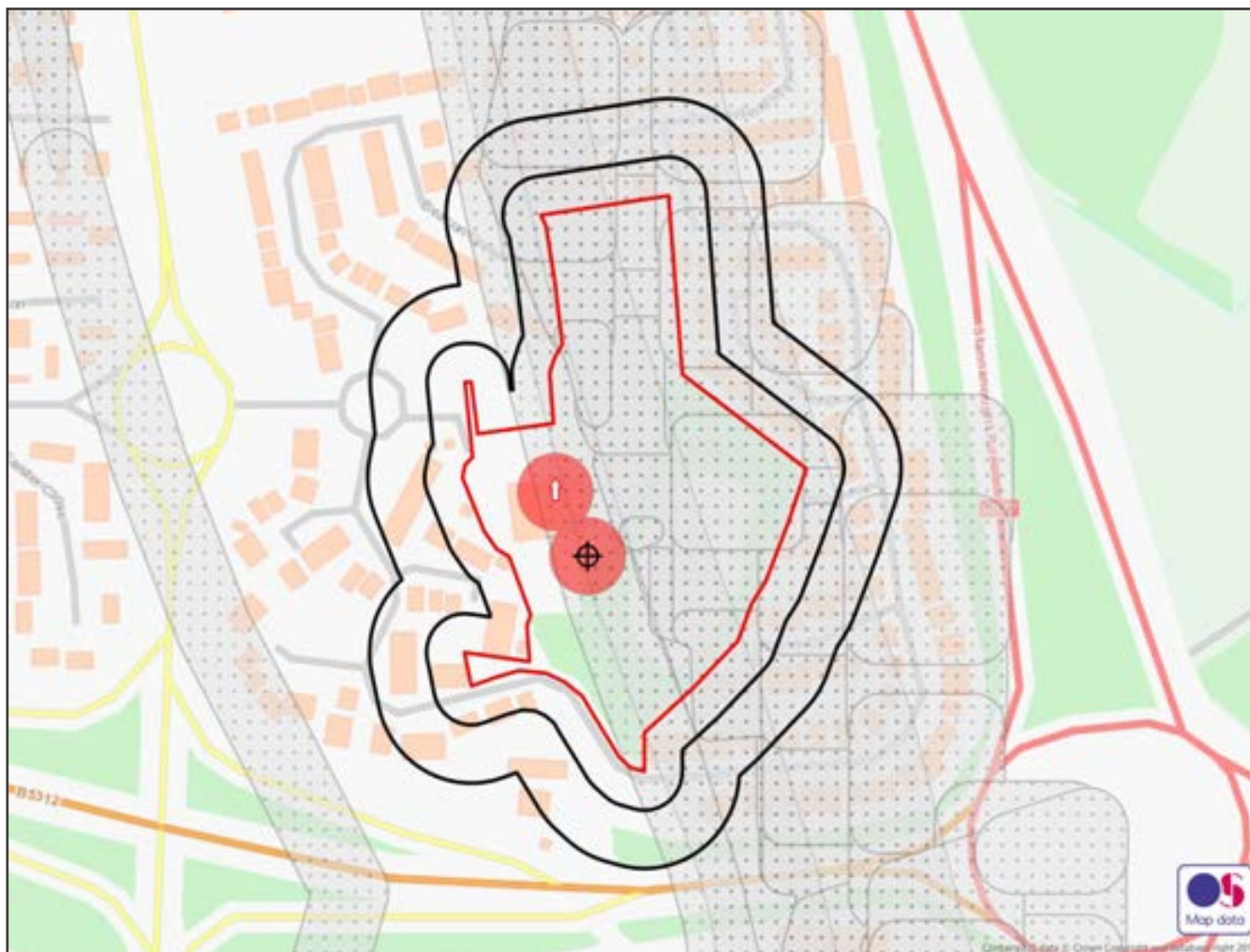
If subsidence features exist or if features that are affecting/could affect the ground stability of the Site are identified during a walkover survey, further investigation (such as geophysical or intrusive investigation) and subsequent remediation may be required.

● In the event of future subsidence:

In the unlikely event of your property being damaged by coal mining subsidence, you can, under the provisions of the Coal Mining Subsidence Act 1991, make a claim against the mine owner. The mine owner will treat the mine entry and arrange for repairs to the property to be carried out to reasonable satisfaction of the property owner. The mine owner may also be liable to pay compensation for damage to moveable property such as furniture.



Mining Hazard Map



Site Address: Hope High School, Hawker Drive, Skelmersdale, West Lancashire, WN86BJ

Hazard Map Key

Coal Authority Data

Mine Entries

-  Adit
-  Shaft

Subsidence Claims

-  01 – Awaiting Decision
-  02 – Rejected
-  03 – Admitted
-  05 – Settled
-  06 – Withdrawn

Hazard Zones

-  Further Investigation Zone
-  Affected Areas

-  Site Boundary
-  20m 50m Scales

Mapping sourced from the Ordnance Survey © Crown copyright [and database rights] OS100058210



For any mining or ground related issues
please contact the experts at TerraFirma

Call us on: 0330 900 7500

Email our team: info@terrafirmasearch.co.uk

The enquiries below are The Law Society CON29M Coal Mining search enquiries and are used with permission of The Law Society. This report is prepared in accordance with The Law Society CON29M (2018) Guidance Notes and ScotForm 2006: Coal mining search in Scotland; under which all replies to these enquiries are made. These eleven questions and their answers are relevant to a non-residential property and should not be relied upon in a residential transaction.

Detailed findings of coal mining activity:

1. Past underground coal mining

ADVISORY 

Q. *Is the property within the zone of likely physical influence on the surface of past underground coal workings?*

A.

The Site is recorded to be within the surface area of historic, shallow coal mine workings.

The Site is recorded to be situated within 20 metres of a known coal seam outcrop. This coal is suspected to have been historically worked at depth of less than 30 metres beneath the surface, within the vicinity of the Site. Please see the report conclusions for further information.

2. Present underground coal mining

PASSED 

Q. *Is the property within the zone of likely physical influence on the surface of present underground coal workings?*

A.

The Site is not situated within an area which could be affected by currently active underground coal mining.

3. Future underground coal mining

PASSED 

Q. *(a) Is the property within any geographical area for which the Coal Authority is determining whether to grant a licence to remove coal by underground methods?*

(b) Is the property within any geographical area for which a licence to remove coal by underground methods has been granted?

(c) Is the property within the zone of likely physical influence on the surface of planned future underground coal workings?

(d) Has any notice of proposals relating to underground coal mining operations been given under section 46 of the Coal Mining Subsidence Act 1991?

A.

The Site is not situated within an area which could be affected by any future underground coal mining. However, reserves of coal exist in the local area which could be worked at some time in the future.

The Site is not situated within the influence of a Section 46 Notice.

4. Shafts and adits (mine entries)

SEE MEIR



Q. Are there any shafts and adits or other entries to underground coal mine workings within the property or within 20 metres of the boundary of the property?

A.

2 mine entry(ies) have been identified within 20 metres of the site.

Reference	Type	Depth	Treated	Treatment Date	Diameter	Distance
350405-003	Shaft	N/A	TRUE	None	2.5m	0.0m
350405-002	Adit	N/A	TRUE	None	2.5m	0.0m

5. Coal mining geology

PASSED 

Q. Is there any record of any fault or other line of weakness due to coal mining at the surface within the boundary of the property that has made the property unstable?

A.

There are no recorded faults, fissures or breaklines beneath or within the vicinity of the Site.

6. Past opencast coal mining

PASSED 

Q. Is the property situated within the geographical boundary of an opencast site from which coal has been removed in the past by opencast methods?

A.

The Site is not situated within any past licence areas for the opencast extraction of coal.

There are no unlicensed opencast pits or extraction sites beneath the Site.

7. Present opencast coal mining

PASSED 

Q. Is the property within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods?

A.

The Site is not situated within an area which could be affected by currently active opencast coal mining.

8. Future opencast coal mining

PASSED 

Q. (a) Is the property within 800 metres of the boundary of an opencast site for which the Coal Authority are determining whether to grant a licence to remove coal by opencast methods?
(b) Is the property within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted?

A.



There are no plans by the Coal Authority to grant a licence to extract coal using opencast methods within 800 metres surrounding the Site.

9. Coal mining subsidence claims

PASSED 

Q. (a) Has any damage notice or claim for alleged coal mining subsidence damage to the property been given, made or pursued since 1st January 1994?
(b) Does any current "Stop Notice" delaying the start of remedial works or repairs affect the property?
(c) Has any request been made under section 33 of the 1991 Act to execute preventive works before coal is worked?

A.

There is no record of any coal mining-related damage notices or subsidence claims for the Site or for any Site within 50 metres of the Site.

There is no record of a request that has been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10. Mine gas emissions

PASSED 

Q. Does the Coal Authority have record of any mine gas emission within the boundary of the property being reported that subsequently required action by the Authority to mitigate the effects of the mine gas emission?

A.

There are no records of any Mine Gas hazards within the influence of the Site and there is no record of any Mine Gas emissions requiring action.

11. Emergency surface hazard call out incidents

PASSED 

Q. Have the Coal Authority carried out any work on or within the boundaries of the property following a report of an alleged hazard related to coal mining under the Authority's Emergency Surface Hazard Call Out procedures?

A.

The Site is not situated within the influence of a coal mining-related hazard.

12. Withdrawal of support

PASSED 

Q. (a) Does the land lie within a geographical area in respect of which a notice of entitlement to withdraw support has been published?
(b) Does the land lie within a geographical area in respect of which a revocation notice has been given under section 41 of the Coal Industry Act 1994?

A.

The property is in an area where notices to withdraw support were given in 1946.



The property is in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13. Working facilities orders

PASSED 

Q. *Is the property within a geographical area subject to an order in respect of the working of coal under the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof?*

A.

The property is not in an area for which any orders have been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land

PASSED 

Q. *Has any relevant notice, which may affect the property, been given?*

A.

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.



Key and Colour Information

The below key provides further guidance on the colours used throughout this report.

Lender Further Action	Terraforma has identified mining hazards within the vicinity of the Site, including features (e.g., mine shafts/ adits) that could affect the future value of the Site. A lender may want to be alerted to this adverse entry, due to requirements of UK Finance (formerly the Council of Mortgage Lenders), before deciding on whether to proceed with the transaction.
Conveyancer Further Action	Terraforma has concluded that further expert analysis of the Site is required. Terraforma does not believe that the transaction should continue until further actions have been undertaken to quantify the risk of subsidence or collapse to the Site. Terraforma recommends that the conveyancer liaises with all necessary parties regarding the report's findings.
Purchaser Advisory	The purchaser's attention is drawn to the prudent advice outlined in the report, which Terraforma recommends is read carefully. The report results should not hinder the transaction and Terraforma's Terms & Conditions are valid for the Site.
Passed No Further Action	Terraforma has not identified any mining features that influence the ongoing use or value of the Site. Terraforma does not believe that any further actions are required for this transaction and Terraforma's Terms & Conditions are valid for the Site.

Additional Remarks

These enquiries are The Law Society CON29M (2018) Coal Mining search enquiries and are used with permission of the Law Society. The Law Society CON29M Coal Mining search enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. The Law Society has no responsibility for information provided in response to CON29M (2018) Coal Mining search enquiries within this report or otherwise. This report is prepared in accordance with The Law Society Guidance Notes 2018 and ScotForm 2006: coal mining search in Scotland; under which all replies to these enquiries are made. Terraforma's Terms and Conditions are applicable at the time the report was produced.

Future Development

In scenarios where mining activity has been identified, a prudent developer would seek appropriate technical advice before any works are undertaken.

In these areas, if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority.

Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.



Notice of Statutory Cover

In the unlikely event of any future damage, the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994) apply*, and the Coal Authority / Licensee has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land and/or property in connection with lawful coal-mining operations. Typically, these actions will not need to involve either your insurance company or mortgage lender and therefore the end user(s) should not incur any costs or liability. *Note: this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

In addition to the above, it should also be noted that the Coal Authority offer a Public Safety and Subsidence Department that provides a 24-hour 7 day a week call out service (Tel: 01623 646 333) to take remedial action in respect of hazards associated with the movement or collapse of any coal mineshaft or entrances to coal mines and from other coal mining related surface hazards. Further information can be found on their website: www.groundstability.com.

Coal Search Insurance Conditions

This is a summary of the policy and does not contain the full terms and conditions of the cover which can be found in the policy document. Please contact Terraforma if you require a copy of your full policy document.

Definitions

Coal Search Insurance means the insurance policy provided by ERGO Versicherung AG, UK Branch ("Insurer") which is authorised by Bundesanstalt für Finanzdienstleistungsaufsicht and subject to limited regulation by the Financial Conduct Authority and Prudential Regulation Authority.

ERGO Versicherung AG, UK Branch is wholly owned by Munich Re, and is rated AA- (Very strong) by Standard & Poor's.

"Insurance" means the Insurance covering the loss in Market Value of the Property (and all other costs and expenses which have been agreed) directly attributable to any changes in the Information revealed in a subsequent Terraforma CON29M Report which was not revealed in the Terraforma CON29M Report ("Report") attached to this Insurance.

"Market Value" means the value determined by an appointed RICS surveyor, such loss to be calculated at the date of the subsequent Report.

"Information" means the information in the Report compiled from the coal authority's records:

1. The Coal Authority's records in relation to past, present and planned underground and opencast coal-mining activity, shafts and adits (vertical and horizontal entries to mines), coal-mining geology, coal-mining related hazards, coal-mining subsidence and mine gas, as recorded in the CON29M (2018) report.

Subject to the terms of the Insurance, each Report issued for a single building includes Insurance up to a maximum of £100,000, effective from the date of issue of the Report ("Effective Date") until the Property is sold or, in respect of a mortgagee, until the debt secured by the mortgage is repaid.



Coal Search Insurance Conditions Continued:

The Insurance applies only to the Purchaser, being:

1. the person who asked for the Report (and the mortgagee) in connection with purchase of the Property
2. the person who purchased the Property (and the mortgagee) if the person selling the Property has asked for a Report for the benefit of the Purchaser as part of a seller's pack or if the Property has been purchased by way of auction.
3. the owner of the Property (and the mortgagee) if the Property is being re-mortgaged or the owner of the Property who has chosen to obtain a Report.
4. The Purchaser's estate and beneficiaries, to whom the benefit of the Policy will pass in the event of the Purchaser's death during the Period of Insurance.

The Insurance is not applicable:

1. if at the date of the claim, the Purchaser is not the legal or beneficial owner of the Property.
2. in relation to loss of a transaction for the sale or for the purchase of the Property nor for any costs incurred in relation to the loss of such transaction.
3. in respect of structural or other physical damage caused to the Property by subsidence or flooding.
4. as a result of any change in Information in response to – future underground coal mining and– future opencast coal mining.
5. if the Information in any subsequent Report after the Effective Date also appears on the attached Report.
6. to any problem revealed by the first Report after the Effective Date if the Purchaser or their legal representative knew about the problem on or before the Effective Date.
7. to any change to the CON29M (2018) Search form and/or the Report made after the Effective Date which affects the Insurer's responsibility under this Policy, if the Insurer would not have been responsible for the loss before such change.
8. to any change in the interpretation of Information upon which the Report was produced, provided such Information remains unchanged.

The Insurer will not be responsible for any loss for which The Coal Authority may be required to pay by law.

Conditions

1. If the Purchaser receives information about any claim, loss or incident for which the Insurer may be responsible under this Policy, the Purchaser must contact the Insurer as soon as possible.
2. If there is any claim under this Policy which is also covered by any other insurance, the Insurer will pay no more than their rateable proportion of the loss and any costs and expenses connected with it.
3. The Purchaser agrees to do and permit to be done all things that the Insurer considers necessary to minimise loss under the Policy. The Insurer will be responsible for any expense incurred in complying with this Condition.
4. The Purchaser must not make any offer promise or payment or incur any costs or expenses unless the Insurer has agreed in writing to cover such costs and expenses.
5. If there is a claim under the Insurance, the Insurer has the right to instruct a Surveyor to assess the Market Value of the Property.
6. Where the Insurer has accepted a claim and there is disagreement over the amount to be paid, the dispute can be referred to an agreed arbitrator (or in the absence of an agreement an arbitrator appointed by the President of the Chartered Institute of Arbitrators) in accordance with the law at the time.

ERGO Versicherung AG, UK Branch is wholly owned by Munich Re and is covered by the Financial Services Compensation Scheme.



Report Limitations

This CON29M Coal Mining Report has been carried out with reference to all available official Coal Authority licensed data, an extensive collection of abandoned mine plans, maps and records. From this material, we have endeavoured to provide as accurate a report as possible. Any and all analysis and interpretation of licensed Coal Authority data in this report is made by Terraforma.

Information provided by Terraforma in this report is compiled in response to The Law Society CON29M Coal Mining search enquiries and ScotForm 2006 coal mining search in Scotland. The scope of the assessment is concerned only with the interpretation of past, present and future extraction of coal minerals. This report does not consider the impact from non-coal mining hazards and/or natural ground stability hazards, such as subsidence, landslip or coastal erosion. For an expert opinion on all mining and ground hazards and in order to meet the requirements of Law Society Guidance Notes (2018) and best practice guidance in the 25th Edition Conveyancing Handbook (2018), you may choose to obtain a Terraforma Ground Report by contacting a member of the team.

This report is a 'remote' investigation and reviews only information provided by the client and from the databases of publicly available information that have been chosen to enable a desk based environmental assessment of the Site. The report does not include a Site Investigation, nor does Terraforma make specific information requests of the regulatory authorities for any relevant information they may hold.

This report is concerned solely with the Site searched and should not be used in connection with adjacent properties as only relevant known mining features have been mentioned and any known features that could potentially have a direct influence upon the target Site. Other features which may be present in the general area may have been omitted for clarity.

The report is based upon the Site boundaries as shown on the supplied location plan. This report is confidential to the client, the client's legal advisor and the client's Mortgage lender, as defined in the Terraforma & TerraSearch® terms & conditions, and as such may be used by them for conveyancing or related purposes. We have no liability toward any person or organisation not party to commissioning this report. This report or any part of it is not permitted to be reproduced, copied, altered or in any other way distributed by any other person or organisation.

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This report meets the principles and requirements of the Property Codes Compliance Board Compliance Note CN02J in respect of Coal Mining Searches.

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- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

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- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

CONTACT TERRAFIRMA IF YOU WOULD LIKE A COPY OF THE SEARCH CODE



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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme, Milford House, 43-55 Milford Street, Salisbury, Wiltshire SP1 2BP, Tel: 01722 333306, Fax: 01722 332296, Email: admin@tpos.co.uk, Web site: www.tpos.co.uk.

You can get more information about the PCCB from www.propertycodes.org.uk or from our website at www.terrafirmasearch.co.uk.

Complaints Procedure

If you want to make a complaint directly to Terrafirma, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

Complaints should be sent to: **Senior Executive, Terrafirma** - Address: 2440 The Quadrant, Aztec West Business Park, Almondsbury, Bristol, BS32 4AQ; Email: info@terrafirmasearch.co.uk; Telephone: 0330 900 7500.

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk. We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

WE TRUST THIS REPORT PROVIDES THE INFORMATION YOU REQUIRE. PLEASE CONTACT US IF YOU HAVE ANY QUERIES OR IF WE CAN BE OF ANY FURTHER ASSISTANCE.



APPENDIX F

LANDMARK ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

229706361_1_1

Customer Reference:

NW113-03-02

National Grid Reference:

350290, 405620

Slice:

A

Site Area (Ha):

2.8

Search Buffer (m):

1000

Site Details:

Hope High School

Client Details:

Mr J Race
ARP Geotechnical Ltd
Northwest House
5-6 Northwest Business Park
Servia Hill
Leeds
LS6 2QH

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	21
Hazardous Substances	22
Geological	23
Industrial Land Use	26
Sensitive Land Use	30
Data Currency	31
Data Suppliers	36
Useful Contacts	37

Introduction

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

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Report Version v53.0

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	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control	pg 4				1
Local Authority Pollution Prevention and Controls	pg 4			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4	Yes			
Pollution Incidents to Controlled Waters	pg 4				7
Prosecutions Relating to Authorised Processes	pg 5				2
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				1 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 7	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 7	5	4	25	80

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 21				1
Licensed Waste Management Facilities (Locations)	pg 21				1
Local Authority Landfill Coverage	pg 21	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 21				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 22				2
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 23				4
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 23	Yes	n/a	n/a	n/a
Mining Instability	pg 23	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 23	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 24	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 24	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 26		4	15	16
Fuel Station Entries	pg 29			2	
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 30		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 30	1			
Ramsar Sites					
Sites of Special Scientific Interest	pg 30				1
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: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	0	1	350350 405650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	0	1	350350 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	0	1	350350 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	350300 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (SW)	0	1	350292 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (W)	0	1	350250 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	350300 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (E)	0	1	350300 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	0	1	350250 405650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	0	1	350300 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	350292 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	4	1	350250 405750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	7	1	350400 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	45	1	350450 405650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	57	1	350450 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	62	1	350450 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	70	1	350200 405800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	91	1	350150 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	110	1	350500 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	115	1	350100 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	115	1	350450 405800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	131	1	350150 405400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	147	1	350500 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	155	1	350200 405900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	158	1	350200 405350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	163	1	350050 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	165	1	350050 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	166	1	350050 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	169	1	350300 405300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	170	1	350292 405300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	179	1	350150 405900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	200	1	350200 405300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	200	1	350050 405400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	203	1	350200 405950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	213	1	350000 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	214	1	350000 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	215	1	350000 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (W)	216	1	350000 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	219	1	350300 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	223	1	350350 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	225	1	350000 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	242	1	350100 405300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	263	1	349950 405619
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	263	1	349950 405600

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	A18SW (N)	266	1	350150 406000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	266	1	349950 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	270	1	350050 405300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	293	1	350000 405900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	322	1	349900 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	330	1	350700 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	332	1	350400 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	333	1	350100 406050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	335	1	349900 405400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	337	1	350200 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	349	1	350700 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	350	1	350450 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (NW)	353	1	350000 406000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	355	1	349900 405350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	364	1	350650 405950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	374	1	349950 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	378	1	350100 406100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	401	1	350150 405100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	410	1	349900 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	416	1	349800 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	416	1	350750 405400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	420	1	349800 405450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	469	1	350292 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	470	1	350000 406150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	473	1	350250 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	482	1	350200 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	490	1	350450 405000
1	Local Authority Integrated Pollution Prevention And Control Name: Ibstock Brick Ltd Location: Chequer Lane, Upholland, Skelmersdale, Lancashire, WN8 0DD Authority: West Lancashire District Council, Environmental Health Department Permit Reference: 6 Dated: 10th March 1993 Process Type: Mineral Industries Description: PG3/2 Brick manufacture - Kiln Status: Permit Issued Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	894	2	350900 404800
2	Local Authority Pollution Prevention and Controls Name: Ormskirk Road Service Station Location: 229 Ormskirk Road, UPHOLLAND, Lancashire, . Authority: West Lancashire District Council, Environmental Health Department Permit Reference: 45 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8NE (S)	382	2	350372 405093
3	Local Authority Pollution Prevention and Controls Name: Ibstock Brick Ltd Location: Ravenhead Works, Chequer Lane, Upholland, Skelmersdale, Lancashire, Wn8 Odd Authority: West Lancashire District Council, Environmental Health Department Permit Reference: 6 Dated: 10th March 1993 Process Type: Local Authority Air Pollution Control Description: PG3/2 Manufacture of heavy clay goods and refractory goods Status: Transferred to LAIPPC Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	894	2	350900 404800
	Nearest Surface Water Feature	A13NE (NE)	0	-	350320 405635
4	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: Tributary Tawd; Derv From Road Traffic Accident Incident Date: 19th May 1995 Incident Reference: 95420042 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Collision Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	645	3	350200 406400
5	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Foam Note: Not Supplied Incident Date: 19th July 1995 Incident Reference: 95230116 Catchment Area: Kent Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	646	3	350800 406200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: River Tawd; Sewage Incident Date: 23rd September 1996 Incident Reference: 96420076 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	680	3	350801 405001
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 11th August 1992 Incident Reference: 92420120 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	716	3	349500 405500
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Esk Brook Incident Date: 14th April 1993 Incident Reference: 93420058 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	814	3	349400 405700
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 5th August 1991 Incident Reference: 91420158 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	869	3	350300 404600
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: River Tawd Incident Date: 3rd December 1991 Incident Reference: 91420222 Catchment Area: Douglas - Upper Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	876	3	350200 404600
11	Prosecutions Relating to Authorised Processes Location: Tanhouse Road, SKELMERSDALE, WN8 6 Prosecution Text: Household Waste Dumped On Land Without Benefit Of Waste Management Prosecution Act: Epa90 S33 & S34 Hearing Date: 27th June 2002 Verdict: Guilty Fine: 300 Costs: 700 Positional Accuracy: Manually positioned to the road within the address or location	A12NW (W)	815	3	349436 405919

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Prosecutions Relating to Authorised Processes Location: Tan House, SKELMERSDALE, WN8 Prosecution Text: Household Waste Dumped On Land Without A Waste Management Licence Prosecution Act: Epa90 S33 & S34 Hearing Date: 6th June 2002 Verdict: Guilty Fine: 500 Costs: 877.92 Positional Accuracy: Manually positioned within the geographical locality	A17SW (W)	935	3	349336 405998
13	Water Abstractions Operator: Ibstock Brick Ltd (Co No 00063230) Licence Number: 2670206019 Permit Version: 1 Location: Land At Ravenhead Factory Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Ravenhead Factory Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th March 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	988	3	351070 404840
	Water Abstractions Operator: Walkers Snack Foods Ltd Licence Number: 2670206018 Permit Version: 3 Location: Borehole At Skelmersdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At The Pennine Place Skelmersdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th February 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1533	3	349140 404420
	Water Abstractions Operator: Golden Wonder Ltd Licence Number: 2670206018 Permit Version: 2 Location: Borehole At Skelmersdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At The Pennine Place Skelmersdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1533	3	349140 404420
	Water Abstractions Operator: The Snack Factory Licence Number: 2670206018 Permit Version: 1 Location: Borehole At Skelmersdale Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At The Snack Factory, Skelmersdale Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1533	3	349140 404420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Snack Factory Licence Number: 2670206017 Permit Version: Not Supplied Location: Borehole, SKELMERSDALE Authority: Environment Agency, North West Region Abstraction: Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 218 Yearly Rate (m3): 79636 Details: Licence Status: Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1576	3	349100 404400
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: <3m Superficial Recharge: Low	A13NW (SW)	0	4	350292 405619
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SW)	0	4	350292 405619
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (SW)	0	4	350292 405619
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13SE (SE)	0	5	350373 405585
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13NE (NE)	0	5	350320 405635

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	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: Douglas Primacy: 1	A13SE (S)	0	5	350309 405499
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13SE (S)	0	5	350317 405505
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 151.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13SE (SE)	0	5	350309 405612
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13NE (NE)	190	5	350510 405778
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 270.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A13NE (NE)	193	5	350526 405765
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	223	5	350437 405957
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	228	5	350442 405958
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 196.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	282	5	350668 405559
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SW (N)	287	5	350196 406036

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	297	5	350664 405498
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	297	5	350664 405498
27	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	302	5	350424 406049
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	303	5	350670 405495
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	304	5	350427 406050
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 304.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	362	5	350606 405990
31	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14NW (NE)	374	5	350689 405855
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	377	5	350582 406039
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	387	5	350477 406120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	389	5	350758 405488
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	393	5	350483 406124
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	419	5	350420 406173
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	431	5	350813 405528
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	432	5	350518 406150
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 141.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14NW (E)	433	5	350822 405683
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	437	5	350820 405533
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	438	5	350522 406155
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (NE)	440	5	350525 406156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	461	5	350443 406211
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	461	5	350846 405539
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	464	5	350445 406213
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SW (E)	467	5	350851 405534
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18SE (N)	471	5	350389 406232
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A19SW (NE)	607	5	350849 406065
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 294.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	619	5	350029 406331
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 453.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A14SE (E)	630	5	351022 405616
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	633	5	349965 406318

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A19SW (NE)	636	5	350728 406255
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 31.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	638	5	349781 406184
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	639	5	349781 406184
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	641	5	349914 406298
56	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	641	5	349914 406298
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A19SW (NE)	645	5	350732 406263
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	656	5	349752 406177
59	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	658	5	349747 406174
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	659	5	349847 406273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	661	5	349741 406171
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A12SW (W)	663	5	349553 405488
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	665	5	349786 406226
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	668	5	349796 406240
65	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	672	5	349728 406173
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A12SW (W)	673	5	349543 405482
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	674	5	349704 406144
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	675	5	349705 406148
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 0.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A12SW (W)	676	5	349540 405484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	677	5	349719 406169
71	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	679	5	349710 406161
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	681	5	349696 406144
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	689	5	350382 406452
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	693	5	350321 406459
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	694	5	350413 406453
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	695	5	350367 406459
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SE (NW)	698	5	349666 406131
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	700	5	350429 406457

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	712	5	350249 406473
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	723	5	350170 406474
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	725	5	350188 406479
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Grimshaw Brook Catchment Name: Douglas Primacy: 1	A12SW (W)	759	5	349456 405494
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	792	5	349768 406380
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	795	5	350613 406505
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NE (N)	795	5	350615 406504
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	802	5	349530 406099
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	826	5	349719 406384

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	830	5	349717 406387
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	830	5	349717 406387
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	836	5	349784 406445
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	841	5	349758 406434
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	847	5	349748 406435
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	858	5	350210 406617
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A18NW (N)	858	5	350211 406617
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	862	5	349813 406496
96	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: Douglas Primacy: 1	A17NE (NW)	864	5	349821 406502

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	865	5	349814 406500
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	871	5	349462 406117
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	874	5	349826 406516
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	879	5	350319 406644
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	880	5	350186 406636
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	886	5	349752 406485
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	886	5	349752 406485
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	887	5	350297 406652
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	888	5	350134 406636

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	889	5	350343 406655
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	898	5	349430 406114
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	900	5	350302 406665
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	906	5	349423 406117
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	912	5	350360 406677
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (NW)	920	5	349703 406491
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NW (NW)	923	5	349538 406336
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 317.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NW (NW)	925	5	349533 406335
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17NE (N)	932	5	349921 406625

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	951	5	350411 406713
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	954	5	350408 406715
117	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: Douglas Primacy: 1	A23SE (N)	954	5	350425 406714
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	956	5	350150 406707
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	965	5	349370 406143
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 230.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A9SW (SE)	974	5	350927 404717
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SE (N)	974	5	350314 406739
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 219.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A17SW (NW)	983	5	349349 406143
123	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: Douglas Primacy: 1	A15NW (E)	988	5	351381 405646

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	989	5	350195 406747
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	993	5	350101 406736
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	994	5	350014 406719
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Douglas Primacy: 1	A23SW (N)	994	5	350062 406730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
128	Licensed Waste Management Facilities (Landfill Boundaries) Name: Rough Park Quarry Licence Number: 54059 Location: Land/premises At, Mill Lane, Upholland, Skelmersdale, Lancashire, WN8 8QE Licence Holder: Liverpool Roman Catholic Archdiocesan Trustees Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Other Wastes (Construction, Demolition, Dredgings) Max Input Rate: Not Supplied Licence Status: Modified Issued: 7th November 1991 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A19SE (NE)	824	3	351037 406174
129	Licensed Waste Management Facilities (Locations) Licence Number: 103056 Location: Beacon Park Golf & Country Club, Beacon Lane, Dalton, Wigan, Lancashire, WN8 7RU Operator Name: Oakland Golf And Leisure Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Use of waste in a deposit for recovery op Licence Status: Issued Issued: 23rd May 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	984	3	350545 406724
	Local Authority Landfill Coverage Name: West Lancashire District Council - Has supplied landfill data		0	2	350292 405619
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	350292 405619
130	Local Authority Recorded Landfill Sites Location: Ravenhead, Tower Hill Road, Upholland Reference: WLDC/061 Authority: West Lancashire District Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A9SW (SE)	845	2	350857 404827

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	Planning Hazardous Substance Consents Name: Redland Bricks Ltd Location: Ravenhead Works, Chequer Lane, Upholland, SKELMERSDALE, Lancashire, WN8 0DD Authority: West Lancashire District Council Application Ref: 92/1313 Hazardous Substance: Part B, Highly Reactive and Explosive Substance, 2,2-Bis(tert-butylperoxy)butane (>70%), where amount held is greater than or equal to 5 tonnes Maximum Quantity: 440 Application date: 10th September 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	903	7	350958 404842
132	Planning Hazardous Substance Consents Name: Redland Bricks Ltd Location: Ravenhead Brickworks, Chequer Lane, Upholland, SKELMERDALE, Lancashire, WN8 0DD Authority: Lancashire County Council Application Ref: H7/2/Hse/92/01 Hazardous Substance: Part B, Highly Reactive and Explosive Substance, 2,2-Bis(tert-butylperoxy)butane (>70%), where amount held is greater than or equal to 5 tonnes Maximum Quantity: 440 Application date: 10th September 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	913	8	351019 404897

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Millstone Grit Group [See Also Migr]	A13NW (SW)	0	1	350292 405619
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (E)	0	1	350350 405638
133	BGS Recorded Mineral Sites Site Name: Carr Lane House Location: Beacon Park, Skelmersdale, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96692 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	588	1	350585 406291
134	BGS Recorded Mineral Sites Site Name: Holland Moor Location: Tanhouse, Skelmersdale, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96710 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brooksbottoms Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SW (W)	665	1	349549 405572
135	BGS Recorded Mineral Sites Site Name: Bailiff Holland Gravel Pit Location: Up Holland, Skelmersdale, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96739 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	697	1	350973 406012
136	BGS Recorded Mineral Sites Site Name: Grimshaw Delf Location: Skelmersdale, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96693 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Brooksbottoms Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SW (W)	707	1	349508 405513
	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.	A13NW (SW)	0	9	350292 405619
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SW)	0	-	350292 405619
	Mining Instability Mining Evidence: Inconclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SW)	0	-	350292 405619
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	83	1	350185 405436
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	125	1	350441 405812
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	142	1	350090 405445
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	170	1	350504 405797
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	217	1	350000 405492
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	83	1	350185 405436
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	169	1	350504 405797
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	217	1	350000 405492
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	1	350292 405619
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	83	1	350185 405436

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	170	1	350504 405797
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	213	1	350000 405619
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	217	1	350000 405492
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	231	1	350042 405360
	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	A13NW (SW)	0	1	350292 405619
	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	A13NW (SW)	0	1	350292 405619

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Contemporary Trade Directory Entries Name: Cablecom Uk Ltd Location: The Old Barn, Heyes Farm, Grimshaw Road, Skelmersdale, Lancashire, WN8 6BH Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	48	-	350243 405470
138	Contemporary Trade Directory Entries Name: A Mcavoy Location: 4, De Haviland Way, Skelmersdale, Lancashire, WN8 6DH Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	51	-	350307 405815
139	Contemporary Trade Directory Entries Name: Platinum Circuits Location: St. Richards House, Tanhouse Rd, Skelmersdale, Lancashire, WN8 6BD Classification: Printed Circuit Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	195	-	350055 405788
140	Contemporary Trade Directory Entries Name: Ecocleen Manchester Location: 131, Cornbrook, Skelmersdale, Lancashire, WN8 9AG Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	211	-	350299 405259
141	Contemporary Trade Directory Entries Name: K T L Trading Location: 2, Eavesdale, Skelmersdale, Lancashire, WN8 6AU Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	251	-	350075 405931
142	Contemporary Trade Directory Entries Name: K T Movements Location: Skelmersdale, Lancashire, WN8 6AJ Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	252	-	350022 405854
143	Contemporary Trade Directory Entries Name: Upholland Blacksmiths Location: 286, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AA Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	294	-	350250 405181
143	Contemporary Trade Directory Entries Name: Central Garage Location: 286, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	294	-	350250 405181
143	Contemporary Trade Directory Entries Name: Mikes Mersey Gas Location: 284, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AA Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	311	-	350275 405161
144	Contemporary Trade Directory Entries Name: K & H Gas Location: 307, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AJ Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	350	-	350001 405236
145	Contemporary Trade Directory Entries Name: Safe Flame Uk Location: 145, Ennerdale, Skelmersdale, Lancashire, WN8 6AQ Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	360	-	349891 405834

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	Contemporary Trade Directory Entries Name: Motorcare Location: Unit 5, Talbot Court, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	370	-	349894 405329
147	Contemporary Trade Directory Entries Name: White Rose Cleaning Services Ltd Location: 84, Ennerdale, Skelmersdale, WN8 6AL Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	394	-	349896 405920
148	Contemporary Trade Directory Entries Name: Texaco Location: Ormskirk Road, Skelmersdale, Lancashire, WN8 9AH Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	395	-	350375 405080
149	Contemporary Trade Directory Entries Name: Newtown Domestics Location: 229b, Ormskirk Road, Skelmersdale, WN8 9AH Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	407	-	350457 405091
149	Contemporary Trade Directory Entries Name: Texaco Location: 229a, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AH Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	410	-	350469 405092
149	Contemporary Trade Directory Entries Name: Skelmersdale Service Station Location: 229, Ormskirk Road, Skelmersdale, Lancashire, WN8 9AH Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	412	-	350475 405092
150	Contemporary Trade Directory Entries Name: Gillibrands Freight Services Ltd Location: 335, Ormskirk Road, SKELMERSDALE, Lancashire, WN8 9AJ Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	430	-	349845 405295
151	Contemporary Trade Directory Entries Name: W I Berry Location: 190, Ormskirk Road, Upholland, Skelmersdale, Lancashire, WN8 0AA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	441	-	350660 405205
152	Contemporary Trade Directory Entries Name: Newtown Domestics Location: 7, Charnock, Skelmersdale, Lancashire, WN8 9DZ Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (S)	508	-	350511 405004
153	Contemporary Trade Directory Entries Name: Contact Communications Location: 127, Martins Lane, Blakehall, Skelmersdale, Lancashire, WN8 9BQ Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	515	-	349855 405144
154	Contemporary Trade Directory Entries Name: Abc Cleaning Services Uk Ltd Location: 184, Ennerdale, Skelmersdale, Lancashire, WN8 6AN Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	525	-	349736 405891
155	Contemporary Trade Directory Entries Name: M R Services Location: 157, Nixons Lane, Blakehall, Skelmersdale, Lancashire, WN8 9BE Classification: Engine Rebuilding & Reconditioning Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	574	-	349863 405061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Contemporary Trade Directory Entries Name: Mobile Tuning Car & Commercial Diagnostics Location: 59, Castlehey, Skelmersdale, Lancashire, WN8 9DU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	687	-	350458 404799
157	Contemporary Trade Directory Entries Name: Ibstock Building Products Location: Ravenhead Factory, Chequer Lane, Upholland, Skelmersdale, Lancashire, WN8 0DD Classification: Brick Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	785	-	350815 404870
157	Contemporary Trade Directory Entries Name: Ibstock Brick Ltd Location: Ravenhead Factory, Chequer Lane, Upholland, Skelmersdale, Lancashire, WN8 0DD Classification: Brick Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	785	-	350815 404870
157	Contemporary Trade Directory Entries Name: Ibstock Ravenhead Location: Ravenhead Factory, Chequer Lane, Upholland, Skelmersdale, WN8 0DD Classification: Brick Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	794	-	350819 404862
157	Contemporary Trade Directory Entries Name: Ibstock Brick Ltd Location: Ravenhead Factory, Chequer Lane, Upholland, Skelmersdale, WN8 0DD Classification: Brick Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	794	-	350819 404862
158	Contemporary Trade Directory Entries Name: C M T P North West Location: 115, Birleywood, Skelmersdale, WN8 9HR Classification: Clothing & Fabrics - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	808	-	349865 404786
159	Contemporary Trade Directory Entries Name: K And S Freight Services Ltd Location: 22, Tawd Road, Skelmersdale, Lancashire, WN8 6BP Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	866	-	349347 405689
160	Contemporary Trade Directory Entries Name: Skyline Location: 32, Elmers Green, Skelmersdale, WN8 6SB Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	867	-	350037 406594
161	Contemporary Trade Directory Entries Name: Gate Fab Location: 137, Bearcroft, Skelmersdale, Lancashire, WN8 9HF Classification: Gate Manufacturers - Automated Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	868	-	349579 404924
161	Contemporary Trade Directory Entries Name: Gate Fab Location: 137, Bearcroft, Skelmersdale, WN8 9HF Classification: Gate Manufacturers - Automated Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (SW)	869	-	349579 404922
162	Contemporary Trade Directory Entries Name: J M C Engineering Location: 38, Mill Lane, Upholland, Skelmersdale, WN8 0RR Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	929	-	351315 405740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	Contemporary Trade Directory Entries Name: A Better Service For Electric Cookers Location: 93, Brierfield, Skelmersdale, Lancashire, WN8 9JB Classification: Cookers - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NW (S)	938	-	350017 404578
164	Fuel Station Entries Name: Dingle Service Station Location: Ormskirk Road , Up Holland , Skelmersdale, Lancashire, WN8 9AH Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8NE (S)	395	-	350375 405080
164	Fuel Station Entries Name: Ormskirk Road Service Station Location: 229, Ormskirk Road , , Skelmersdale, Lancashire, WN8 9AH Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8NE (S)	395	-	350378 405081

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	Areas of Adopted Green Belt Authority: West Lancashire District Council Plan Name: West Lancashire Local Plan Status: Adopted Plan Date: 16th October 2013	A13NE (E)	159	7	350534 405703
166	Nitrate Vulnerable Zones Name: River Douglas Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (SW)	0	4	350292 405619
167	Sites of Special Scientific Interest Name: Ravenhead Brickworks Multiple Areas: N Total Area (m2): 220878.97 Source: Natural England Reference: 1001893 Designation Details: Geological Conservation Review Designation Date: 1st November 2002 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 1st November 2002 Date Type: Notified	A9NE (SE)	860	11	351069 405056

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices West Lancashire District Council - Environmental Services St Helens Metropolitan Borough Council - Environmental Protection Department Wigan Metropolitan Borough Council - Environmental Services	April 2014 December 2014 October 2017	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Wigan Metropolitan Borough Council - Environmental Services West Lancashire District Council - Environmental Health Department	April 2013 March 2014 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Wigan Metropolitan Borough Council - Environmental Services West Lancashire District Council - Environmental Health Department	December 2014 March 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Wigan Metropolitan Borough Council - Environmental Services West Lancashire District Council - Environmental Health Department	December 2014 March 2014 October 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 2019	
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	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West Region	June 2016	
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 - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	October 2019	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2019	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	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 - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	November 2019 November 2019 November 2019	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2019 October 2019 October 2019	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Lancashire County Council - Waste Management Group Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department Wigan Metropolitan Borough Council - Environmental Services	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 West Lancashire District Council - Environmental Health Department Lancashire County Council - Waste Management Group Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council Wigan Metropolitan Borough Council - Environmental Services	March 2004 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2003 March 2003 March 2003	Not Applicable Not Applicable 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	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Lancashire County Council St Helens Metropolitan Borough Council West Lancashire District Council Wigan Metropolitan Borough Council - The Planning Department	February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents Lancashire County Council St Helens Metropolitan Borough Council West Lancashire District Council Wigan Metropolitan Borough Council - The Planning Department	February 2016 February 2016 February 2016 January 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 Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	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	Annual Rolling Update
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	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

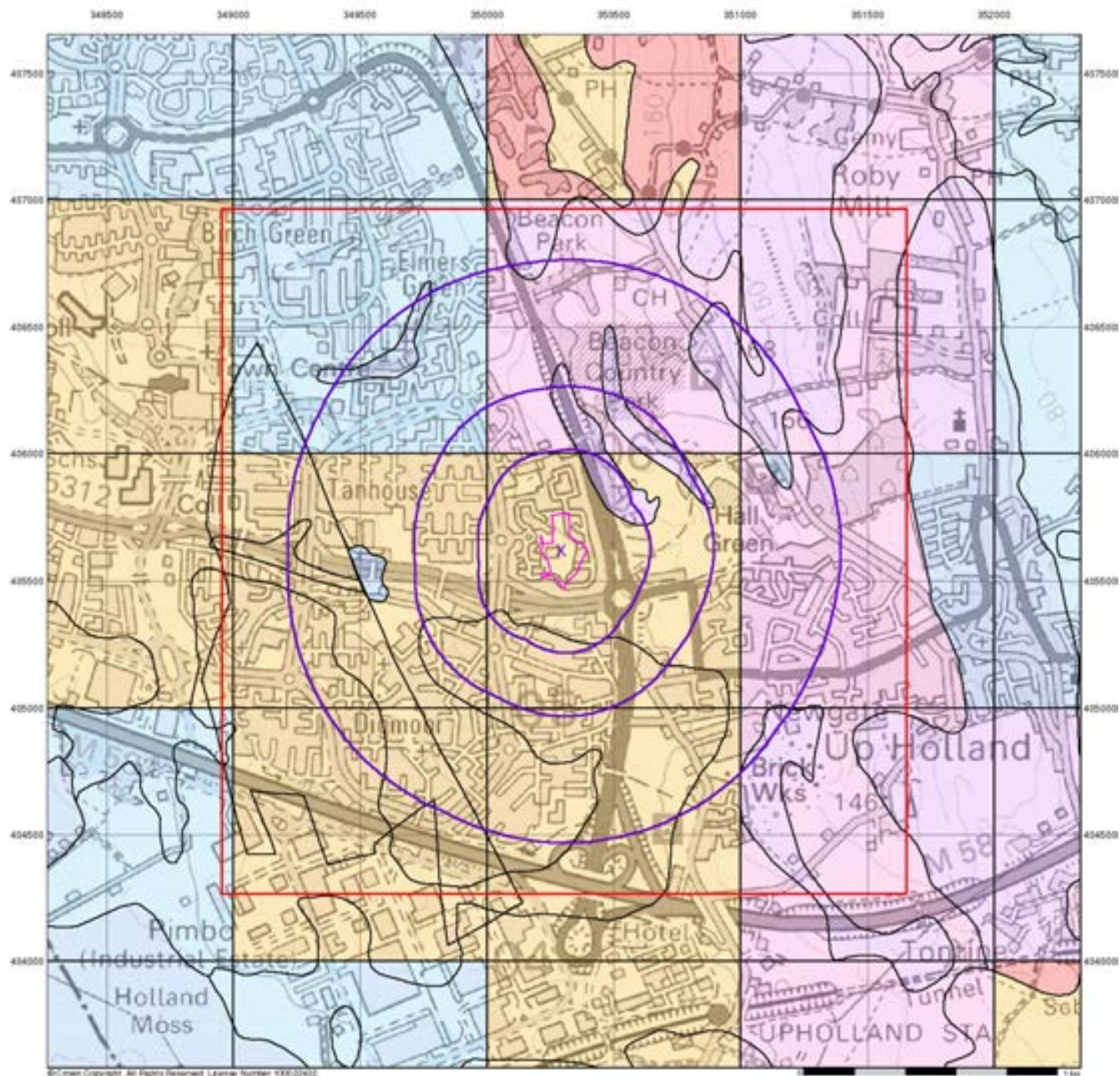
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt St Helens Metropolitan Borough Council West Lancashire District Council Wigan Metropolitan Borough Council	November 2019 November 2019 November 2019	As notified As notified As notified
Areas of Unadopted Green Belt St Helens Metropolitan Borough Council West Lancashire District Council Wigan Metropolitan Borough Council	November 2019 November 2019 November 2019	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	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	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	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	West Lancashire District Council - Environmental Health Department Westec House, 52 Derby Street, Ormskirk, Lancashire, L39 2DF	Telephone: 01695 577177 Fax: 01695 571079 Website: www.westlancsdc.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
7	West Lancashire District Council Westec House, 52 Derby Street, Ormskirk, Lancashire, L39 2DF	Telephone: 01695 577177 Fax: 01695 571079 Website: www.westlancsdc.gov.uk
8	Lancashire County Council County Hall, Preston, Lancashire, PR1 8XJ	Telephone: 01772 254868 Website: www.lancashire.gov.uk
9	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
10	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
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

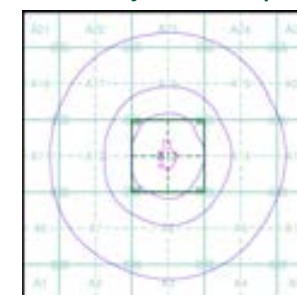
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



ARP GEOTECHNICAL LTD

Bedrock Aquifer Designation

General

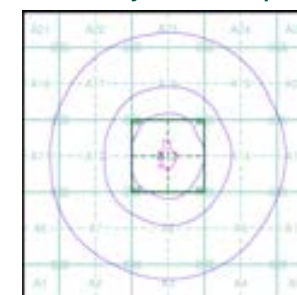
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

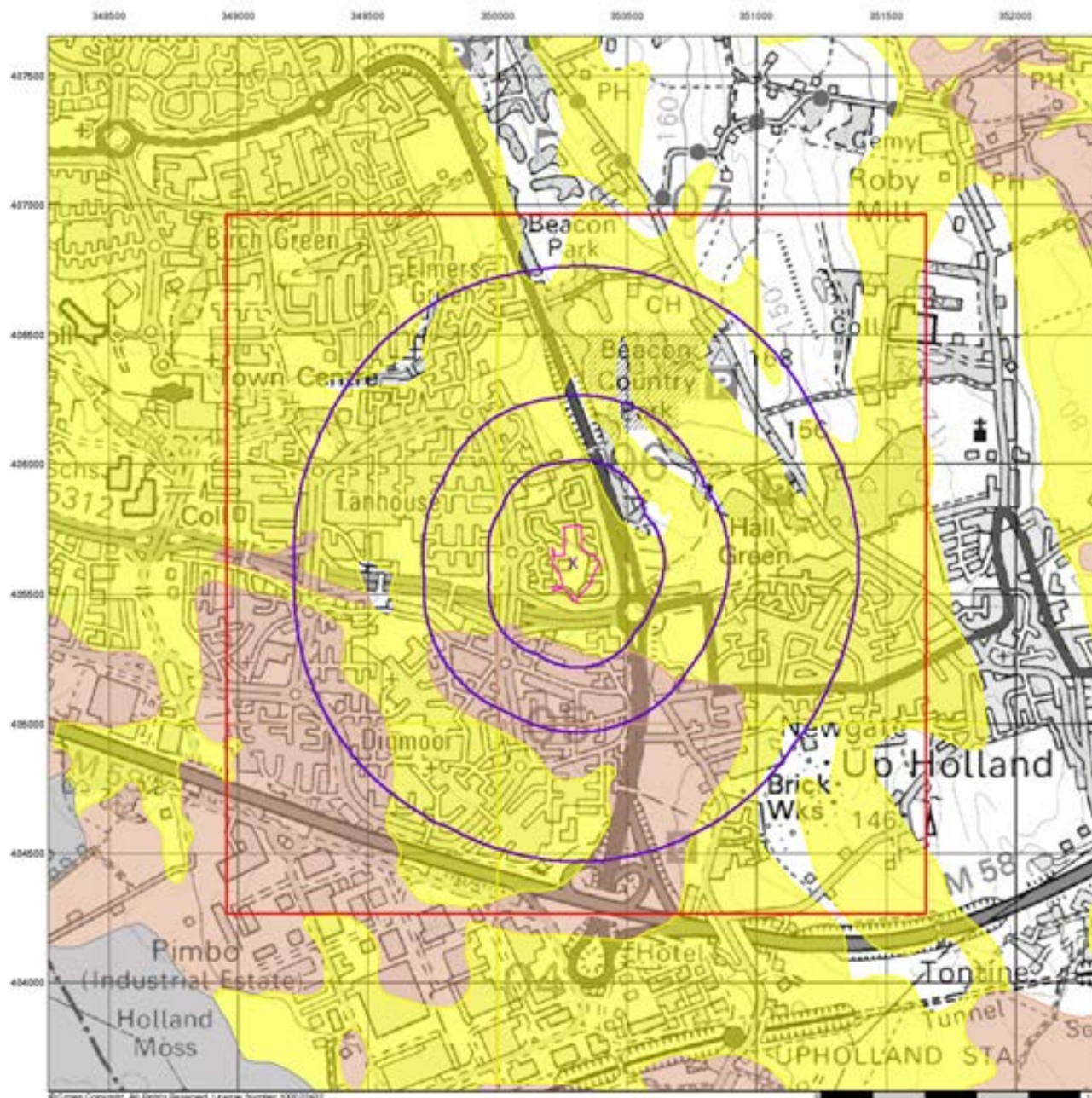
Order Number: 229706361_1_1
 Customer Ref: NW113-03-02
 National Grid Reference: 350290, 405620
 Slice: A
 Site Area (Ha): 2.8
 Search Buffer (m): 1000

Site Details

Hope High School



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



Superficial Aquifer Designation

General

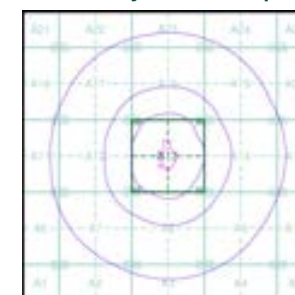
- X Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



Source Protection Zones

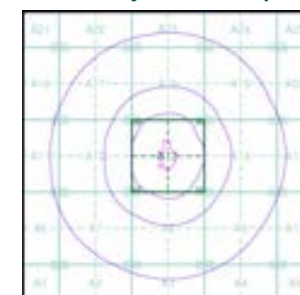
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



ARP GEOTECHNICAL LTD

Sensitive Land Uses

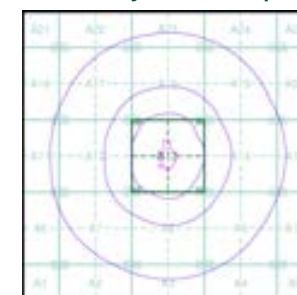
General

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

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of 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

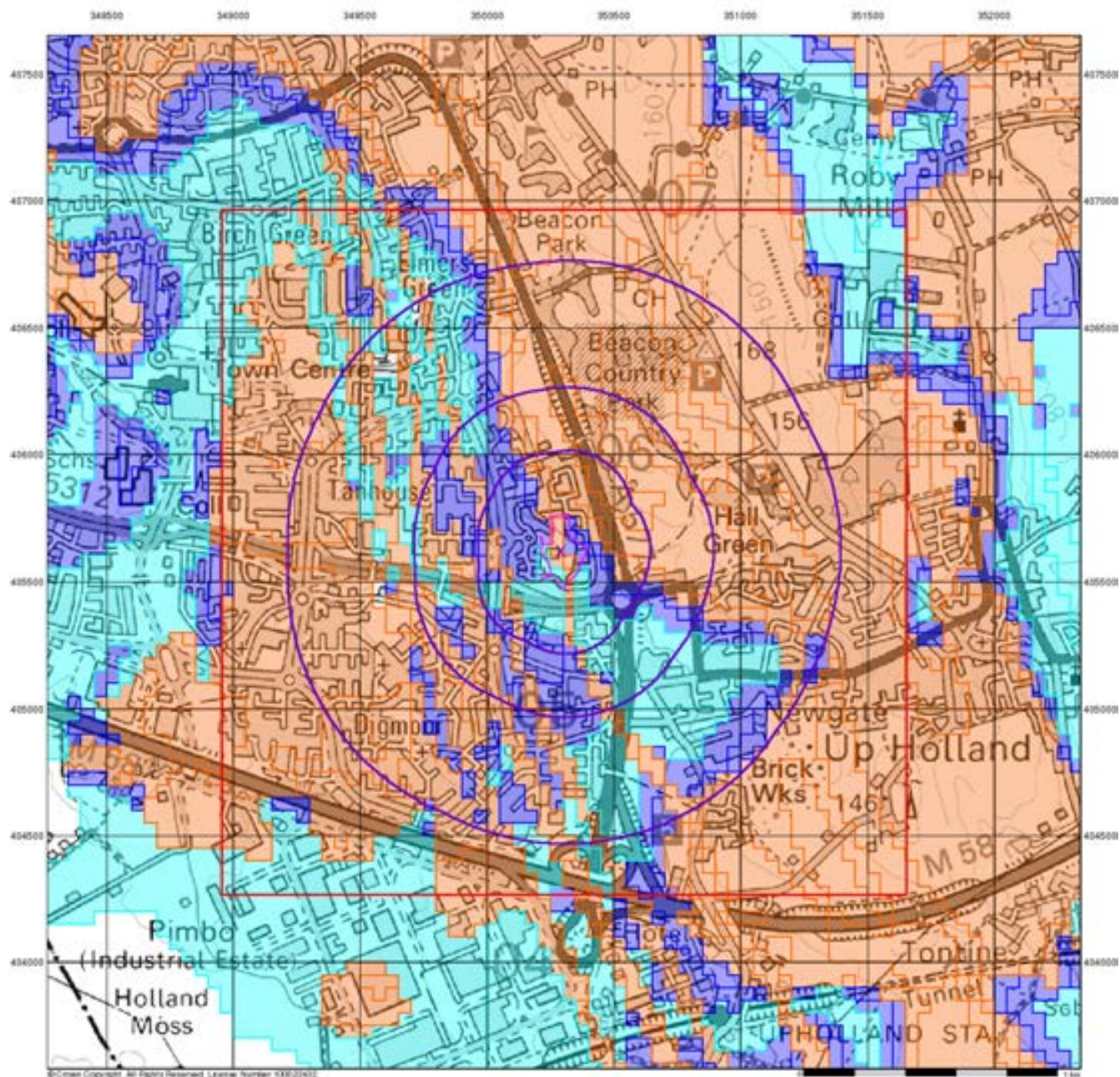
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 Customer Ref: NW113-03-02
 National Grid Reference: 350290, 405620
 Slice: A
 Site Area (Ha): 2.8
 Search Buffer (m): 1000

Site Details

Hope High School



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BGS Flood GFS Data

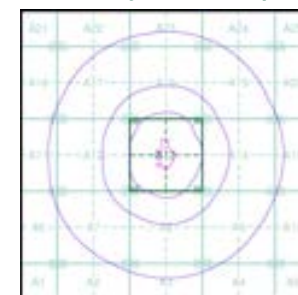
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 229706361_1_1
 Customer Ref: NW113-03-02
 National Grid Reference: 350290, 405620
 Slice: A
 Site Area (Ha): 2.8
 Search Buffer (m): 1000

Site Details

Hope High School



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

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- 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
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Area)
- 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
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point buffered to 100m)
- Registered Landfill Site (Point buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

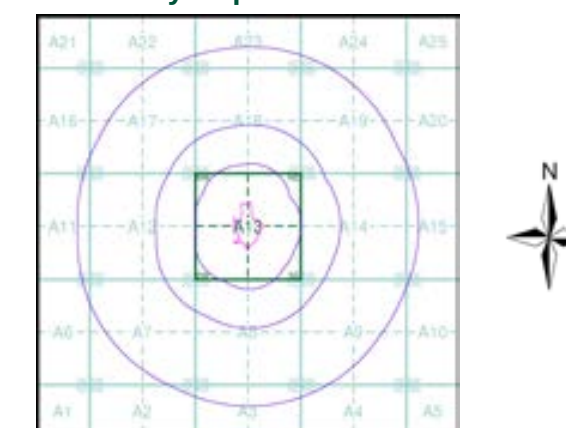
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- COMAH Site
- Explosive Site
- NIHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A

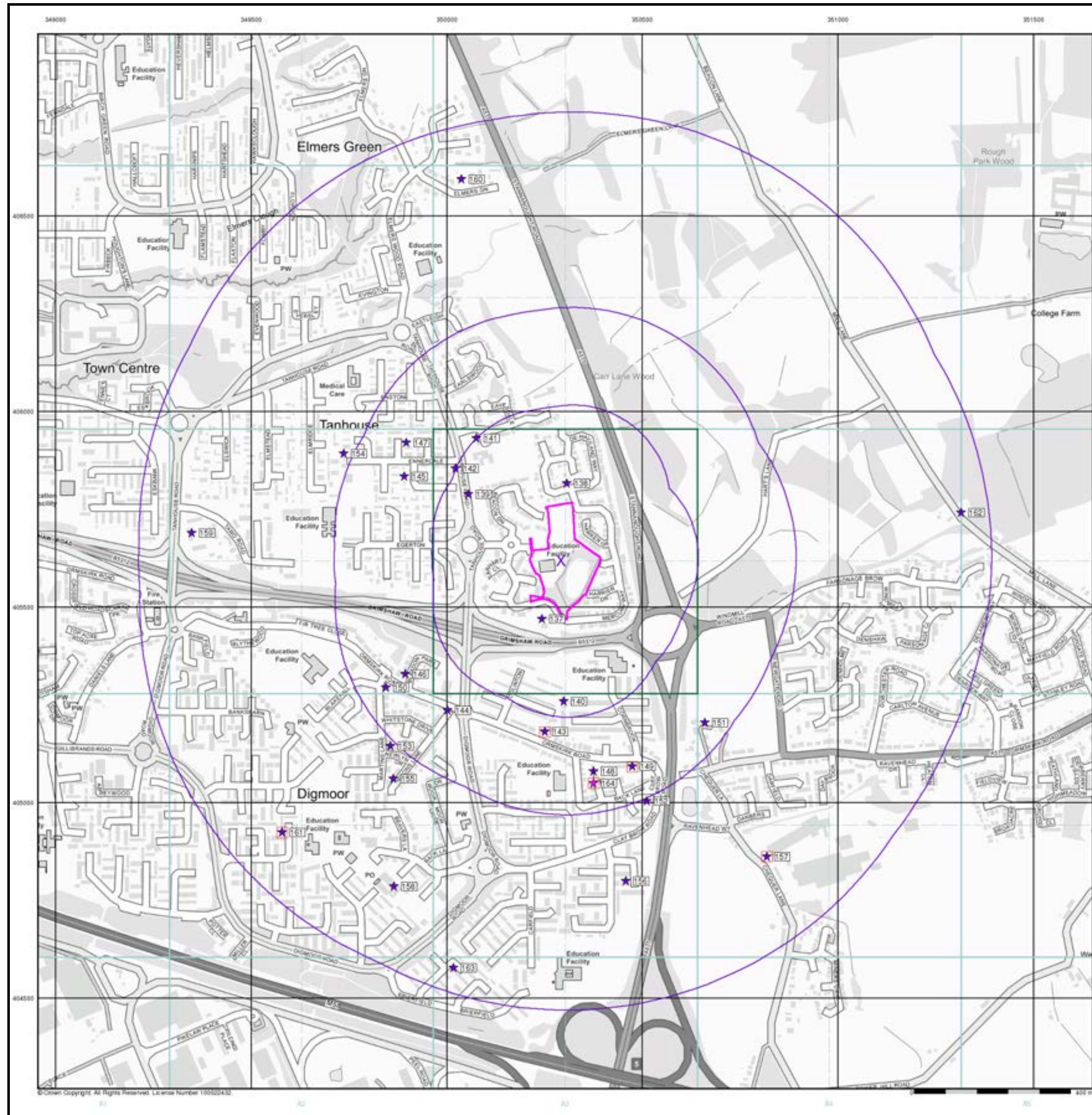


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



ARP GEOTECHNICAL LTD

Industrial Land Use Map

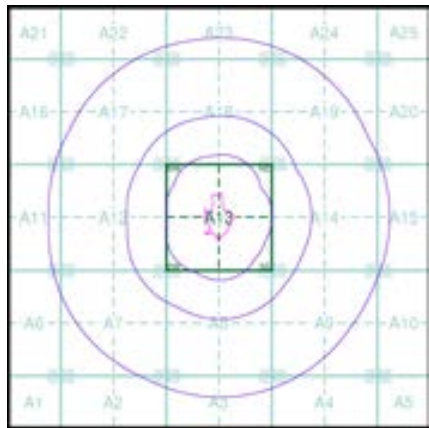
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 229706361_1_1
 Customer Ref: NW113-03-02
 National Grid Reference: 350290, 405620
 Slice: A
 Site Area (Ha): 2.8
 Search Buffer (m): 1000

Site Details

Hope High School



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

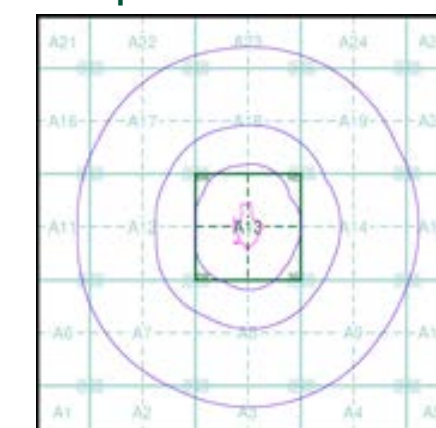
General

-  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

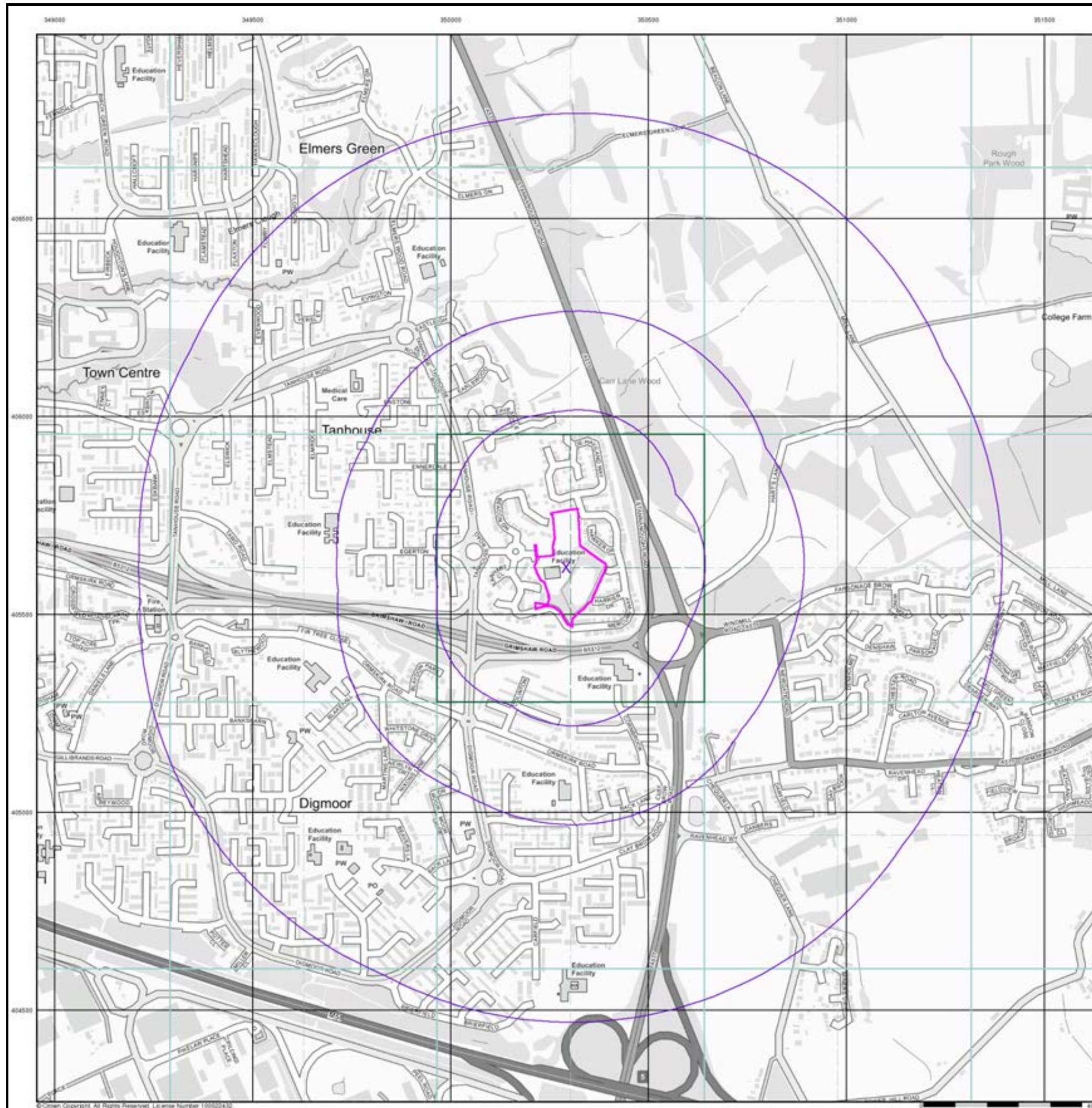


Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School



General

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

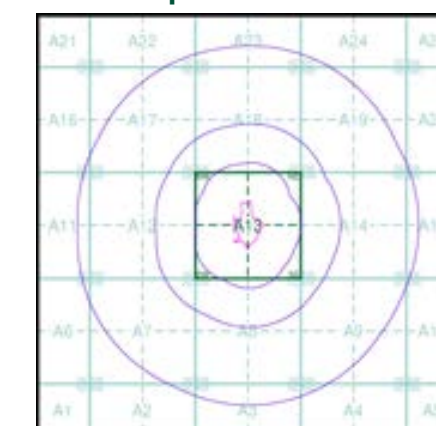
Agency and Hydrological (Boreholes)

- 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: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School

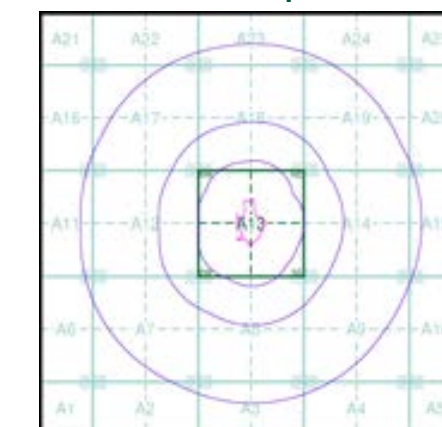
General

- 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 |

OS Water Network Map - Slice A

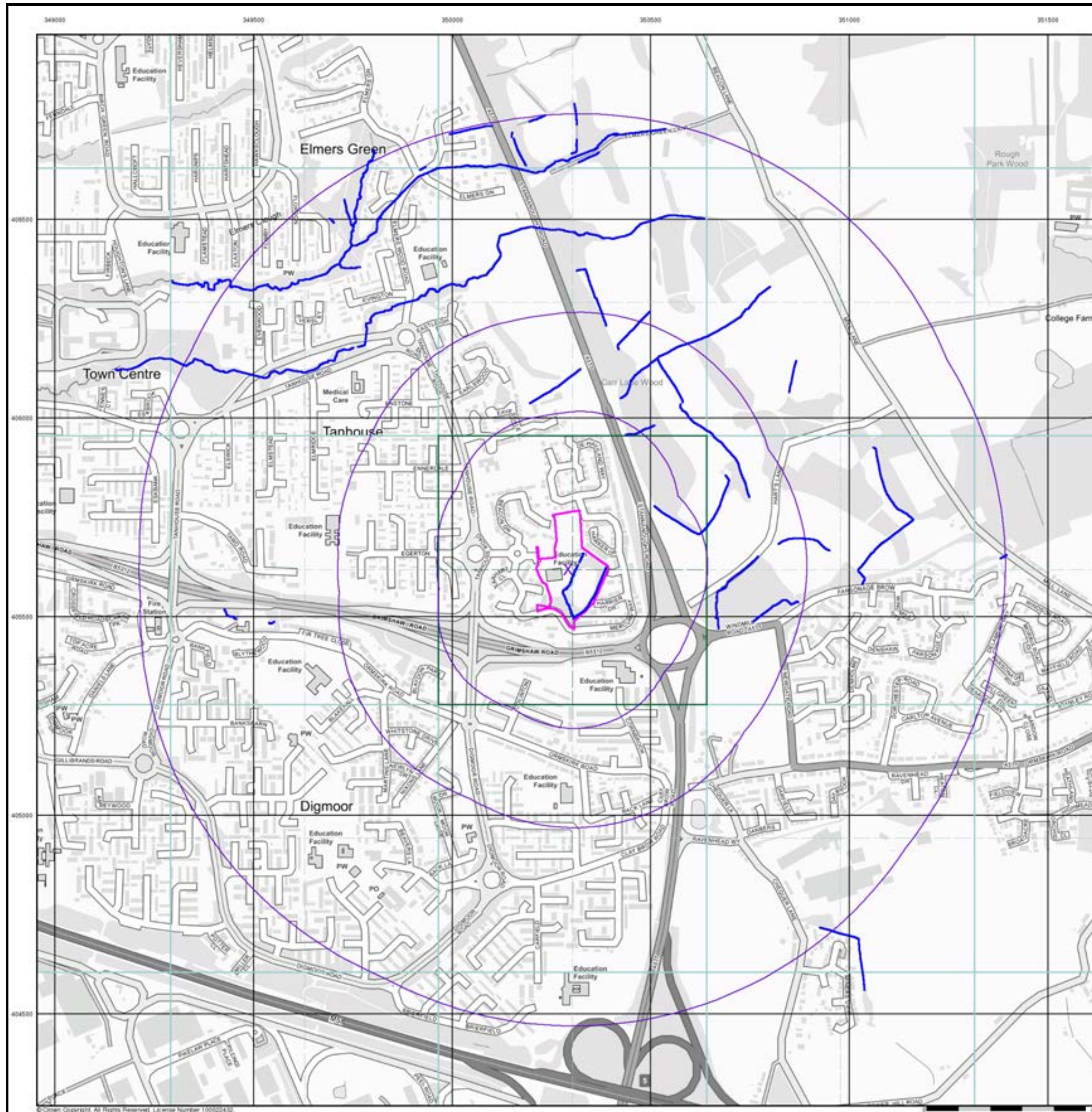


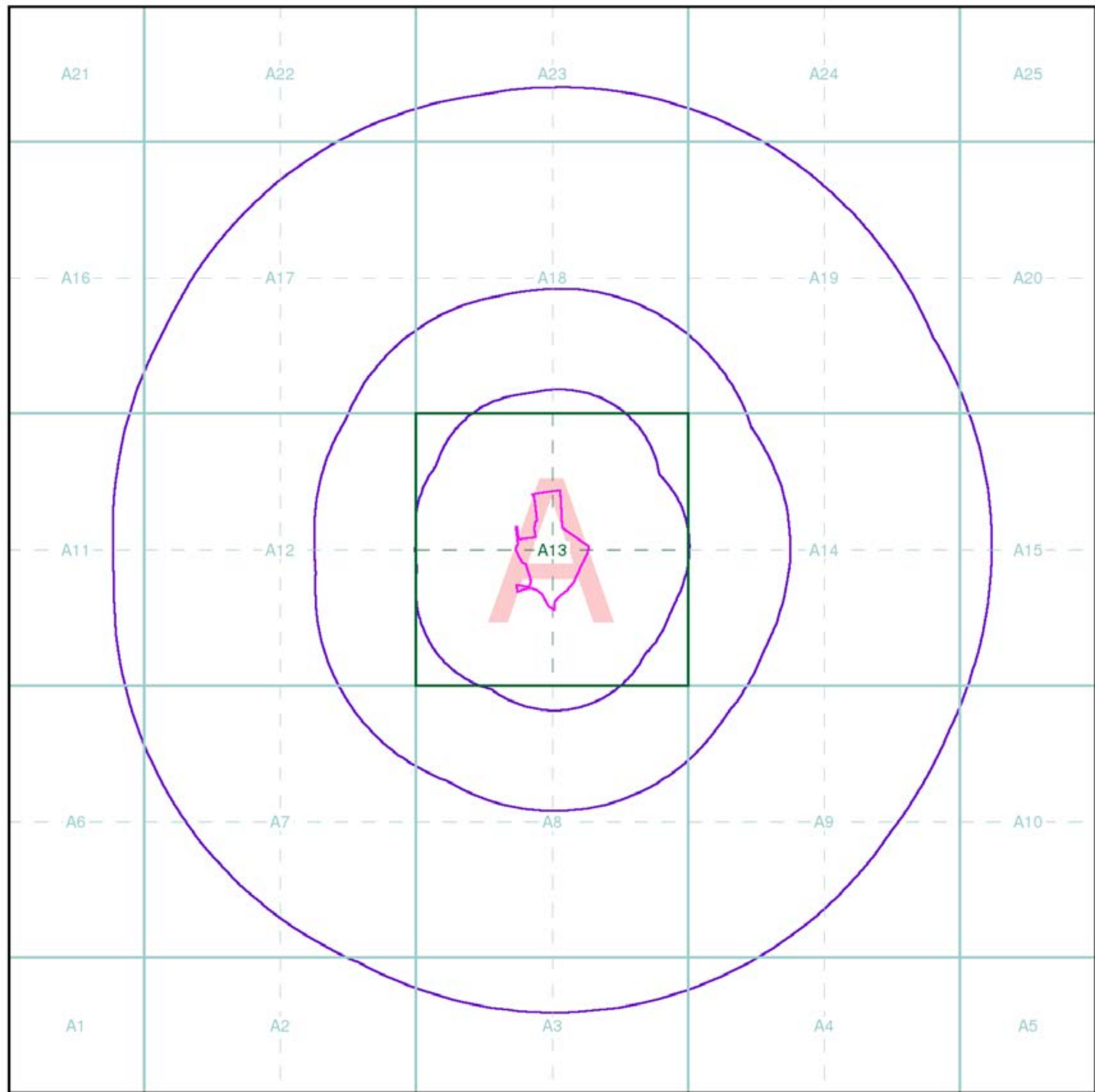
Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350290, 405620
Slice: A
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School





Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr J Race, ARP Geotechnical Ltd, Northwest House, 5-6
Northwest Business Park, Servia Hill, Leeds, LS6 2QH

Order Details

Order Number: 229706361_1_1
Customer Ref: NW113-03-02
National Grid Reference: 350300, 405620
Site Area (Ha): 2.8
Search Buffer (m): 1000

Site Details

Hope High School

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

APPENDIX G

RISK CATEGORISATION TABLES

Severity of Consequence

Severe	Short term (acute) risks to human health, likely to result in significant harm. Major pollution of (watercourses or groundwater)
Medium	Long-term (Chronic) damage (significant harm) to human health. Pollution of sensitive water resources.
Mild	Pollution of non-sensitive water resources.
Minor	Non-permanent health effects easily prevented by use of personal protective equipment during site works.

Probability of Risk Event Occurring

High Likelihood	There is a pollutant linkage and an event that either appears very likely in the short term, almost inevitable in the long term, or there is evidence of harm or pollution at the receptor.
Likely	There is a pollution linkage and all the elements are present and in the right place, so that a risk event is possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which a risk event could occur. However, it is not certain that such an event would take place even over a longer period, and even less likely in the short term.
unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

Comparison of Probability Against Severity of Consequence

		Severity of Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/ Low Risk
	Likely	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/ Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/ Low Risk	Low Risk	Very Low Risk	Very Low Risk

Risk Categories - Definitions

Very High Risk	High probability that severe harm could arise to a receptor, or there is evidence that severe harm is already occurring. Urgent investigation is required and urgent remediation is likely to be required.
High Risk	Harm is likely to arise to a receptor. Urgent investigation is required and remediation may be necessary in the short term and likely over the longer term.
Moderate Risk	Possible that harm could arise to a receptor, but low likelihood that such harm would be severe. Harm is likely to be mild. Investigation normally required to clarify risk. Some remedial works may be required in the long-term.
Moderate/ Low Risk	Possible that harm could arise to a receptor, but where a combination of likelihood and consequence results in a risk that is above low, but is not of sufficient concern to be classified as mild. Limited further investigation may be required to clarify the risk. If necessary, remediation works are likely to be limited in extent.
Low Risk	Possible that harm could arise to a receptor. Such harm, at worst, would normally be mild.
Very Low Risk	Low possibility that harm could arise to a receptor. Such harm is unlikely to be any worse than mild.

A P P E N D I X H

I N D I C A T I V E P R O P O S E D S I T E L A Y O U T

PROPOSED SITE PLAN RETAINED PLAYING FIELDS

	2b4p	17
	3b5p	16
	4b6p	18
	Total	51

Site Area- 29,670m²

