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A Tier 2 Groundwater Risk Assessment Report for North Hykeham Town Council

Address: North Hykeham Cemetery, Mill Lane, North Hykeham, Lincoln LN6 9PB.

Ref: C1270_P01

Date: 4th March 2026

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1 Introduction and Site Location

Following issues around groundwater and grave side instability, and some initial consultation with the EA, the Council took the decision to halt burials at the site, until these issues had been investigated further and an appropriate solution could be implemented. The CDS Group (CDS) were requested to undertake a Site Investigation of the existing cemetery to ascertain the underlying ground conditions and its suitability for ongoing burials, and to provide any assistance with any remedial measures required. This site will be considered on the basis of groundwater risk and as part of this, a T2 study based on the criteria required by the Environment Agency has been carried out.

The proposed development area has been assessed on a 1km area of influence: grid reference 493815, 365100 and the nearest postcode is LN6 9PB. The site is calculated as being approximately 0.70 ha.

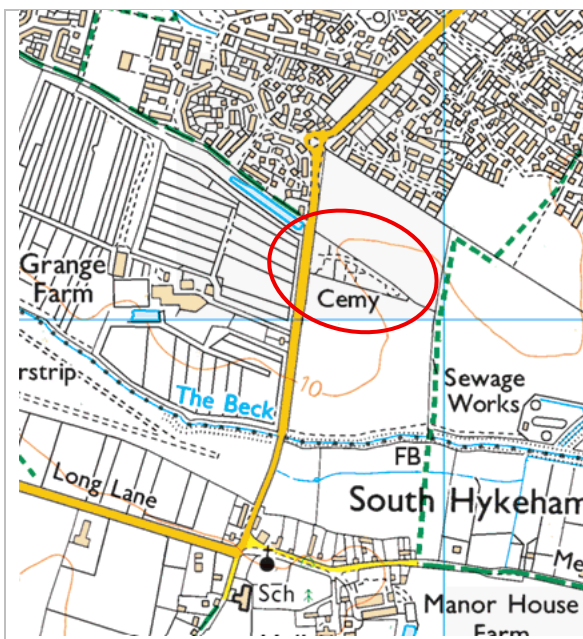


Figure 1. OS map of the site



Figure 2. Aerial Image of the site

2 Background and Guidance

This section sets out the relevant legal and policy advice relevant to the grant of planning permission for new and also the operation of existing cemeteries. New cemetery developments or extensions to existing cemeteries can be very emotive. However, these concerns are often disproportionate to the actual environmental risk.

Whilst the Local Planning Authority is the principal controlling body in determining approval for new sites or site extensions, significant information is required to ensure that the environmental risks are examined and that the Environment Agency's views are considered. Therefore, measures to prevent pollution must be undertaken and reported. Any regulatory decision-making is based on sound scientific knowledge. On this basis, a review of potential pollution from cemeteries was undertaken by the Environment Agency in collaboration with the British Geological Survey.

The aim was to review old and new cemeteries and measure the effects of contamination from viruses, bacteria and other microbiological pathogens and to assess the potential of chemical contaminants affecting groundwater supplies from decomposition processes. Preliminary results showed that the operating cemetery examined in the study (25 years old) did show some evidence of bacterial contaminants in groundwater derived from corpses. However, no viruses were detected and the overall contaminant loading was found to be low. The studies found that degradation and attenuation was occurring indicating that potential risks were low. Whilst the outcome of this research found contaminant risk to be low, it should be reviewed in the context that natural attenuation processes may have been optimum at these sites. Therefore, to optimise natural attenuation and reduce the risk of possible groundwater contamination, a series of guidelines have been drawn up that are directly applicable to cemeteries.

The most up-to-date guidance issued by the Environment Agency (EA) is provided in:

- [The Environment Agency's approach to groundwater protection](#) (February 2018 Version 1.2), which updated 'Groundwater protection: Principles and practice (GP3) (2013)';
- [Groundwater protection technical guidance](#), published March 2017.
- [Protecting groundwater from human burials](#), published October 2023, updated June 2025.

The purpose of the published guidance is to help those operating cemeteries to understand how to manage cemeteries and burial of human and animal remains, to prevent or limit groundwater pollution.

Failure to manage and reduce any environmental risk to a minimum may result in action being taken under the Environmental Permitting (England and Wales) Regulations 2016, the Water Resources Act 1991 and the Anti-pollution Works Notice Regulations 1999.

The recently updated guidance, 'Protecting groundwater from human burials' has, for the first time, introduced the need for high risk cemetery sites to require an Environmental Permit to operate. This places additional financial implications on the operation of the cemetery as well as requiring the operators to ensure they meet the terms of the permit. It is therefore important that any new cemetery or extension to an existing cemetery is assessed at an early stage to understand whether the site would be liable to the new environmental permitting regulations. Similarly, a list of exemption conditions are now provided for low risk cemeteries, which can operate without a permit.

2.1.1 Groundwater Protection Policy

Initial risk screening starts with the tools contained in the 'The Environment Agency's approach to groundwater protection' (previously Principles and Practice for the groundwater protection), Section L: Cemetery developments GP3.

Tools include Groundwater Vulnerability and Source Protection Zone (SPZs) maps. These maps highlight where there are likely to be particular risks posed to groundwater from surface activities. Groundwater Vulnerability (GWV) Maps show the damage from pollution to groundwater and the relative importance of the aquifer to water supplies. Risk assessment is made with reference to soil leaching potential and the levels of water tables above major and minor aquifers.

Source Protection Zones are delineated areas around groundwater abstractions used for public consumption and defined by travel, time of biological or chemical contaminants.

The zones are classified in three groups:

Zone 1 High risk

Zone 2 Intermediate to high risk
Zone 3 Intermediate risk

In its Position Statement L1 (p109 of 'The Environment Agency's approach to groundwater protection') the Agency advises that it will object to the grant of planning permission for any new cemetery, or the extension of an existing cemetery, within Zone 1 of an SPZ or 250 metres from a well, borehole or spring used to supply water that is used for human consumption, whichever is the greater distance.

Position Statement L3 advises on the protection of groundwater in highly sensitive locations. The Agency advises that it will apply a risk-based approach to assessing the suitability of sites outside of the zones noted in position statements L1 and L2 (concerning mass casualty emergencies). It will place a high priority on protecting groundwater within principal aquifers and groundwater catchments for drinking water supply; and seek to avoid new cemetery developments for greater than 100 graves in these high vulnerability areas except where the thickness and nature of the unsaturated zone, or the impermeable formations beneath the site protect groundwater, or the long-term risk is mitigated by appropriate engineering methods. It advises that all cemetery developments and burials must maintain an unsaturated zone below the level of the base of the grave(s) and that the Agency will work with the local authorities to identify alternative options where necessary.

Whilst groundwater is a major part of policy concerns, other water point sources are also considered as requiring an evaluation of risk. These sources include surface water in the form of ditches, spring lines and surface run-off.

The factors influencing the risk of groundwater vulnerability include:

- Soil nature and type
 - Physical, mechanical and chemical properties
- Geomorphology
 - Depth to water table and or height above aquifers
 - Groundwater flow mechanisms
 - Aquifer type
- Abstractions
- SPZs
- Proximity to water courses, ditches and drains

Therefore, prior to any consent being given by the Environment Agency, an assessment of risk should be undertaken. The degree of assessment is measured through a series of stages namely:

- Hazard identification
- Identification of consequences
- Magnitude of consequences
- Probability of consequences
- Significance of risk

2.1.2 Tiered risk assessment

The Environment Agency requires all new cemetery sites or extensions to existing cemetery sites to undergo a groundwater risk assessment using the Source-Pathway-Receptor approach, which includes the formation of a site specific conceptual model.

This is required to provide an assessment of the impact of proposed burials (source) on the underlying groundwater table or surface water features in close proximity (receptor). The nature of the site

specific geological conditions, which act as the pathway between the source and receptor, can alter the severity of the potential pollution impact.

As such proposed burial sites are required to undergo a tiered risk assessment based on a wide range of factors including burial number, burial type, geological conditions and hydrogeological conditions.

There are 3 Tiers of Risk assessment which are used depending on the overall risk of the proposed development

Tier 1 Assessment – Site Screening Requirements

A Tier 1 report comprises a desktop study of all appropriate documentation including geological conditions, published soil data, groundwater data including aquifer designation and source protection zone classification. The site then undergoes a qualitative risk assessment to determine the potential impact of the proposed development on the identified sensitive receptors. If the risk is considered to be low the proposed development may be approved by the Environment Agency without further detailed assessment.

However, the following minimum good practice requirements should be met to minimise pollution risk:

You should **not** carry out any human burials within:

- an Inner Groundwater Source Protection Zone (SPZ I).
- 10 m distance from agricultural field drain, including dry ditches.
- 30 m minimum distance from a watercourse or spring.
- 250 m of any well, spring or borehole where the water is intended for human consumption or used in food production.
- areas where karstic groundwater flow is identified.
- in areas prone to groundwater flooding.
- where the base of a grave cannot meet the minimum height requirement of 1m above the highest annual groundwater level.
- In unaltered or unweather bedrock.

Tier 2

Should the risks identified by the Tier 1 desktop suggest a potential pollutant impact, then further site specific “ground truthing” will need to be undertaken. A Tier 2 investigation requires a wide range of site specific information such as a site investigation using trial pits or boreholes to assess the nature of the ground conditions, depth to groundwater, permeability etc to provide a more detailed assessment of the conceptual model, source-pathway-receptor linkage and overall risk posed to the receptor

On further assessment of the ground model the risk assessment for the site can be re-assessed which may indicate the requirement for a pollutant flux model to be carried out to assess the impact of the modelled pollutants on the underlying groundwater and nearest compliance point.

Tier 3

If the risk is considered to be high, more detailed investigation work will be required to assess the impact of the proposed development. This would include at least 1 years groundwater monitoring to assess seasonal variations in groundwater levels from a minimum of 3 boreholes (1 upgradient and 2 down gradient). Post development, it is also required to undertake 3 years monitoring and sampling to assess any potential impact upon the receptor once the site is operational.

2.1.3 Environmental Permitting Regulations – October 2023

Burial of human corpses can result in discharge of hazardous substances and non-hazardous pollutants to groundwater. They are, therefore, covered by the requirements of the EU Groundwater Daughter Directive, issued under the Water Framework Directive 2006 and now transposed in England and Wales by the Environmental Permitting (England & Wales) Regulations 2016 (EPR 2016). It is an offence to cause or knowingly permit pollution of controlled waters other than under and in accordance with an environmental permit.

From 2 October 2023, you will need to apply for an environmental permit for a new cemetery development or extension to an existing cemetery: Exemption for Low Risk sites, Standard Rules Permit for Medium Risk Sites or Bespoke Permit for High Risk Site.

As part of your planning application or permit application, you must carry out a groundwater risk assessment. A groundwater risk assessment will provide you with a site specific analysis of the risks your activity may pose. The Environment Agency will use this to help you operate your cemetery and protect the water environment.

2.2 Greywater Management

Groundwater protection is a statutory requirement for all cemetery sites under the Water Resources Act. The Environment Agency have also laid down strict guidelines for the development of new cemeteries and operation of all existing cemeteries with active burial and reopens, which include but are not limited to the following:

- Graves should not hold any standing water when dug, however, this does not include perched water that has entered the grave from surrounding soils, but there is not a continued flow of water into the grave
- There should be at least 1 metre between base of grave and water table; more if the soil has high infiltration rates.
- Graves should be at least 250m away from wells and potable water supplies.
- Pumping out of graves and discharging “grey” water directly or indirectly into surface or groundwater sources if found to be polluted is an offence under the Groundwater Regulations 1998.
- No burials within 30 meters of watercourses.
- No burials within 10m of any field drains

During the winter months, it is a common requirement to pump water out of newly opened graves. There are a number of reasons why water enters graves, it is important therefore, to determine where the water is coming from. There are usually three main sources:

2.2.1 Surface Water

In the winter and during periods of heavy and sustained rainfall, surface water is likely to be the most common source of water seepage into graves particularly on site situated on relatively impermeable subsoils such as clay. The shallow soil profile soon becomes saturated and the soil exceeds field capacity, meaning that all the soil's pore space is filled with water. The greater the water input, the deeper this waterlogged layer becomes. Clay soils may only allow infiltration rates of between 2mm to 3 mm per hour, however, if the soil is consolidated, then this rate could be reduced to less than 1 mm per day leading to prolonged periods of standing water and rapid runoff from sites when rainfall begins.

In high rainfall events (10-15 mm per hour), the upper horizon (topsoil) soon becomes saturated as water movement downwards is impeded by the less impermeable soils below, eventually precipitation exceeds the speed of downward infiltration and excess surface water then moves horizontally and generally down slope over the surface, ponding in depressions such as over new graves or in areas where older graves have not been suitably topped-up. Furthermore, if the drainage network designed to capture surface water and drain it away from burial areas is not adequately maintained then these systems can backup leading to surface water flooding.

Excavating a new grave in a previously unoccupied plot of land will allow water to flow through the soil into the newly excavated grave. This water in most cases will be unpolluted, provided it is a new grave up-slope from existing graves. Pumping is an option and is likely to pose little pollution risk if discharged to land and allowed to soak away, alternatively water can be discharged into the surface water or foul-water drainage system although permission from the water company will be required.

If a grave is being re-opened, even if the soil has been compacted over the previous burial, it is likely some water will have gathered around the previous interment. In the worst cases this may extend up through the soil to the depth of the next burial. This water will be polluted and should be treated as grey water. It must not be discharged untreated into a surface water or groundwater outfall, nor should it be pumped onto the surface. If the burial is relatively recent, pathogen loading in the water could be high and may present an immediate biological risk to staff and visitors if discharged onto the surface. Even for an old burial the water is likely to be chemically contaminated, posing a risk to the receiving waters. In all cases such water should be disposed of either to a foul sewer (with appropriate permission) or be tankered away to a suitable water treatment works.

The better the compaction of the backfill over a grave, the less likely water is to move through the soil and gather around a coffin at burial depth. Equally, if the grave can be regularly topped up to avoid the formation of a depression over the grave then water will run off the surface and away from the grave rather than ponding over a grave in filtrating down to burial depth.

If the water in the burial has a sheen/odour and is anticipated to be 'greywater' then this water cannot be discharged onto land or into drains as this would breach guidelines with respect to discharge of suspected polluted water.

2.2.2 Groundwater

If, when digging a grave, water appears to enter the pit at lower levels and / or through the base of the pit it is almost certainly groundwater. The speed at which the water enters a pit or grave can vary depending the nature of the soils. If groundwater is encountered in a freely draining soil such as a fractured weathered bedrock or a highly permeable sand/gravel then the flow may well be rapid, filling the pit or grave quickly. However, if groundwater is encountered in an intergranular soil such as fine sands/silt, then the rate of inflow may be slow and, in some cases, may not be instantly apparent. If left for an hour or so and re-examined, groundwater may appear as slow seepage into the pit or as a sheen of water droplets on the pit base and sides. However, both cases could indicate the presence of groundwater within burial depth and accordingly it is not appropriate to undertake a burial in such conditions as it would be considered in breach of two statutory requirements.

- Graves should not hold any standing water when dug, however, this does not include perched water that has entered the grave from surrounding soils, but there is not a continued flow of water into the grave
- There should be at least 1 metre between base of grave and water table; more if the soil has high infiltration rates.

It should be noted, however, that on some sites a shallow perched water table may be encountered which has no direct connection to groundwater or surface water features. Often sites with a clay soil may contain pockets made up of sand and gravel known as "lenses". If a grave is dug into such a lens, it will cause the water to drain from the lens into the grave. The size of the lens will determine the speed and quantity of water ingress into the grave. Depending on whether the new burial is in close proximity to other burials and depending if other graves in the cemetery are at, or above, the level of these lenses, the water entering the burial may or may not be considered to be contaminated. When considering pumping out, this water should be managed as part of a health and safety management approach (see later discussion).

2.2.3 Inter-grave Seepage

As discussed previously, surface water arising from periods of heavy or sustained rainfall on heavy clay soils will migrate to depressions, which in cemeteries are often associated with settlement of graves. The backfill material of a grave is usually less consolidated than the surrounding undisturbed soil due to the fact that the soils has been reworked and placed back leaving fissures and voids in the soils. If the surrounding matrix is less permeable, water will accumulate in the pore spaces and voids within the grave. This "free water" is mobile and is under a "head" of pressure which increases with depth.

If a new grave is dug downslope of, or adjacent to, an existing grave it is likely that seepage of "grey" water from the adjacent plot will occur. Based on the age of the adjacent burial (<10 years or younger), there is a significant risk that the water draining into the excavation will be contaminated. Recent evidence shows that this greywater may contain clostridium and streptococcal bacteria. Concern has now also been raised about the possible presence of the CJD vector.

Pumping "grey" water without adequate protection of water courses, staff and public is potentially dangerous and irresponsible. Environment Agency representative advice as of January 2007 is as follows:

"Grey water should be managed in the first instance by the prevention of surface water entering grave plots, old and new. This can be done by installing cut-off or surface management drainage systems. If water is subsequently pumped from the grave, the water must be stored and subsequently disposed of by a professional environmental waste management company. Alternatively, the water can be treated on site by either mobile or permanent treatment systems prior to discharge or recycling."

3 Desk Study Site Assessment

Envirocheck, British Geological Survey and Cranfield University data was used in this report.

3.1 Historical Land Use

The site is first shown on the 1887 map and comprises an open field.

The site remained relatively unaltered until the 1990's when the existing cemetery was established.

3.2 Geology

The following headings cover the aspects of geology of the immediate area of the proposed development.

3.2.1 Artificial Ground

This is ground at or near the surface that has been modified by man. It includes ground that has been deposited (Made Ground), landscaped, disturbed, excavated (Worked Ground) or some combination of these.

As can be seen in Figure 4 below, there are no mapped deposits on the subject site itself or within the vicinity of the site.

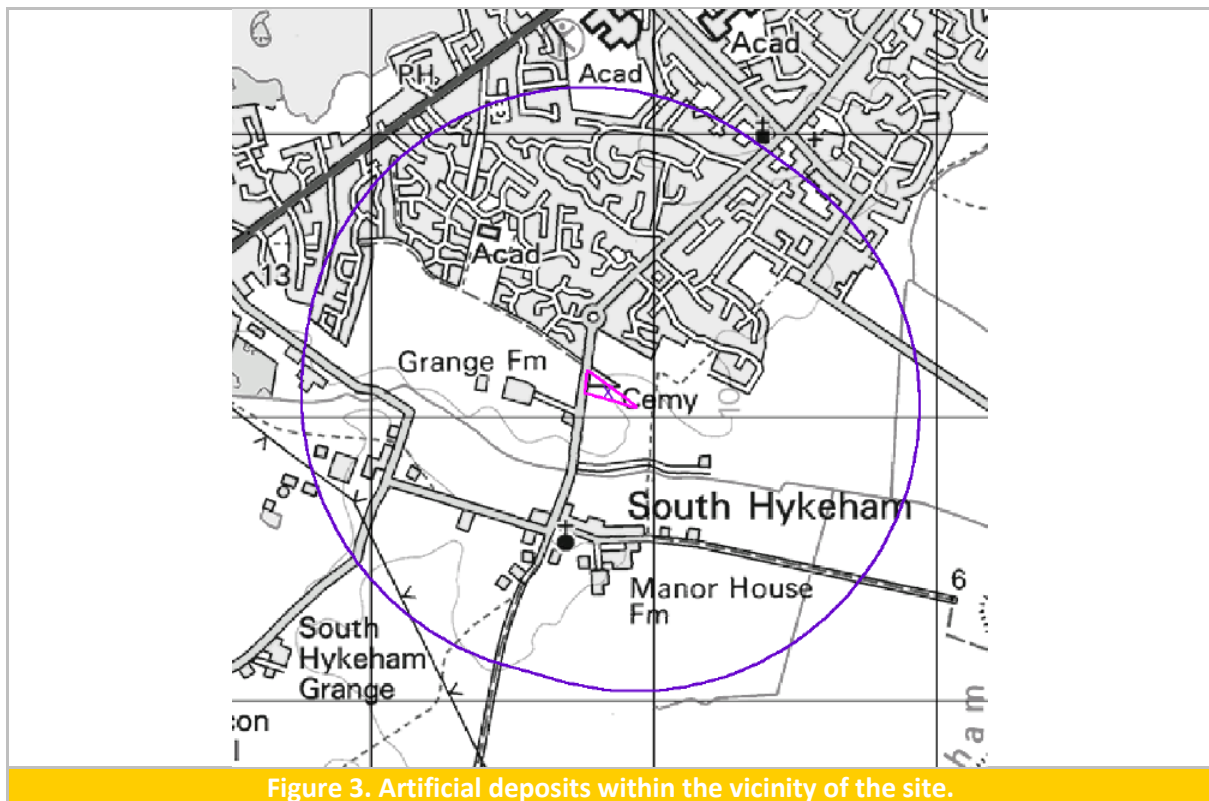


Figure 3. Artificial deposits within the vicinity of the site.

3.2.2 Superficial Deposits

These are relatively young geological deposits formerly known as 'Drift', which lie on the bedrock in many areas. They include deposits such as unconsolidated sands and gravels formed by rivers and clayey tills formed by glacial action. They may be overlain by landslide deposits, by artificial deposits or both.

As can be seen in Figure 5 below, the majority of the site is mapped partially on Balderton Sand and Gravel Member.

Balderton Sand and Gravel Member comprise predominantly cold-phase sands and gravels that underlie the Balderton Terrace. Orange-brown sandy gravel dominated by rounded pebbles of "Bunter" quartz/quartzite (c.75%) with subordinate subangular flint (c.15%), and rarer Triassic sandstone, etc

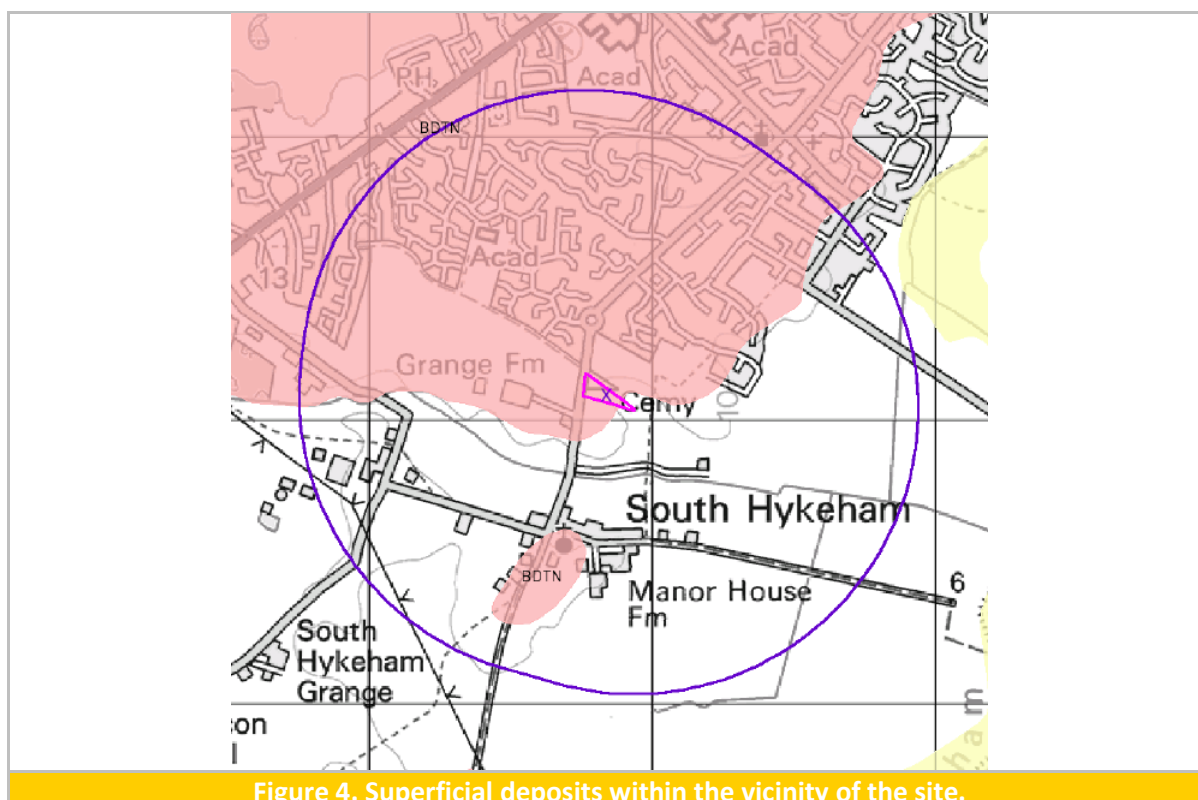


Figure 4. Superficial deposits within the vicinity of the site.

Superficial Geology

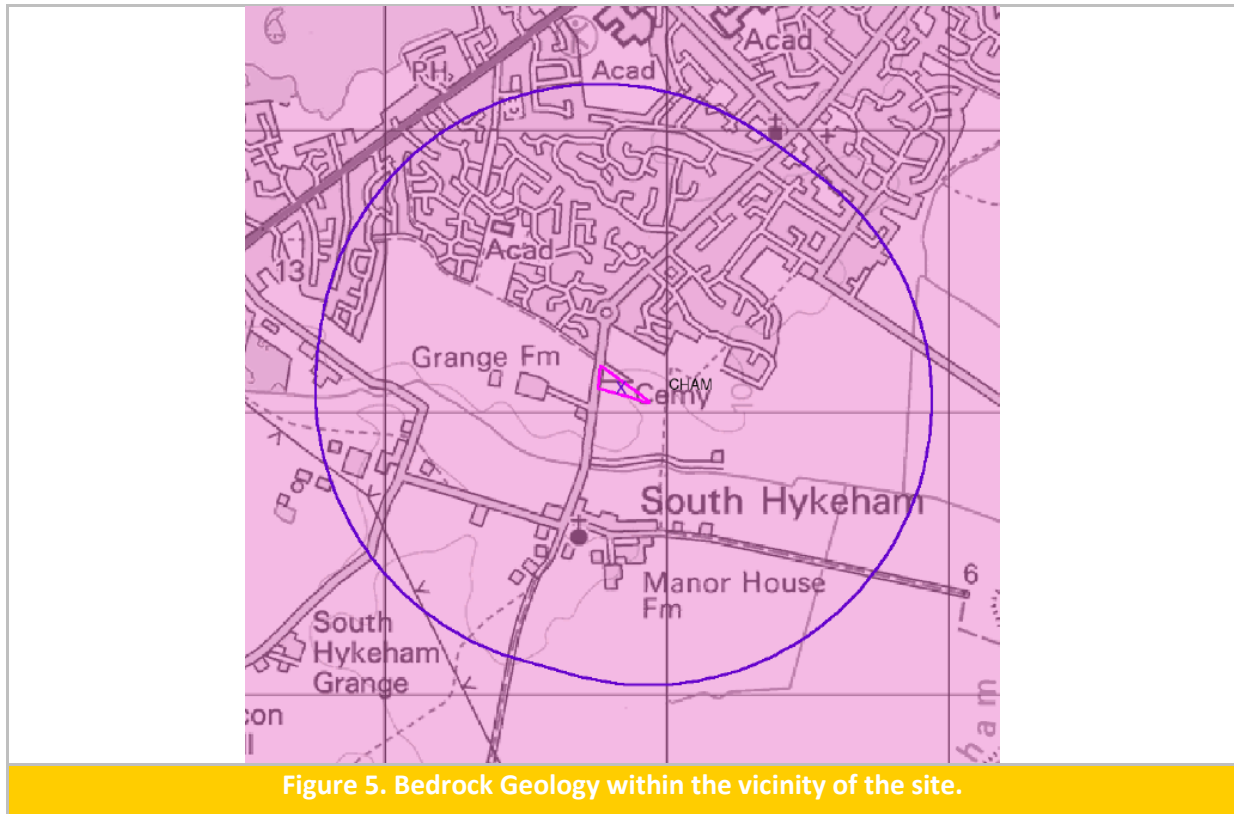
Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	BDTN	Balderton Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	FULB	Fulbeck Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

3.2.3 Bedrock Geology

Bedrock forms the ground underlying the whole of an area, commonly overlain by superficial deposits, landslide deposits or artificial deposits, in any combination.

As can be seen in Figure 6 below, the site is mapped on the Charmouth Mudstone Formation.

The **Charmouth Mudstone Formation** is primarily dark grey shale/mudstone, often laminated and organic-rich.



Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHAM	Charmouth Mudstone Formation	Mudstone	Not Supplied - Sinemurian
	SMD	Scunthorpe Mudstone Formation	Mudstone and Limestone, Interbedded	Not Supplied - Rhaetian

3.3 Additional Geological Considerations

A summary of the potential geological hazards which could be found on site are explained in Table 2 below:

Table 1. Onsite Geological Hazards

Geological hazard	May be significant within site area (Yes/No)?	Comments
Potential Natural Ground Stability Hazards		
Shrink-Swell	Yes	The mapped geology on the site predominantly clay based soils with variable gravel content. As such we do consider there to be a risk associated with swelling and shrinkage especially in areas affected by trees.

Geological hazard	May be significant within site area (Yes/No)?	Comments
Landslides (slope instability)	Yes	The site is relatively flat, and the Envirocheck report lists the site as having a very low risk associated with landslides.
Soluble Rocks (dissolution)	No	The site is situated on a geology which is not susceptible to dissolution and as such there is no risk.
Compressible Ground	No	The site is not situated on a geology which is susceptible to compression and as such there is no risk.
Collapsible Deposits	Yes	The site is situated on a geology which is susceptible to collapse and as such there is very low risk.
Running Sand	Yes	The site is situated on a geology which is susceptible to running sand and as such there is very low risk.
Other Potential Hazards		
Mining	No	The site is not in an area affected by mining.
Flooding (Rivers and Sea)	No	The site is classed as Flood Zone 1 and is at low risk of flooding from rivers or sea and as such is suitable for use as a cemetery.
Flooding (Surface Water)	Yes	The main body of the site is not mapped within an area at risk of surface water flooding. However, there are areas of high risk mapped along the ditch along the northern boundary.
Flooding (Groundwater)	Yes	The site is mapped in an area at limited risk of groundwater flooding at surface and below ground level.
Natural Land Gas	No	There does not appear to be any potential sources of land gas.
Radon	No	The site is mapped in a lower probability radon area. No protection measures are deemed to be required for any new buildings.

3.4 Hydrogeology

In lowland areas of the UK with little topographic variation, groundwater is likely to be found at shallow depths of only a few metres. Water table fluctuations will be small as they will be constrained by the ground surface and the base level of the local perennial streams and rivers. In upland areas, precipitation is usually high and the dominantly metamorphic and igneous rocks often have relatively shallow groundwater levels.

This is due to preferential groundwater storage in near-surface weathered and fractured zones with limited drainage into the underlying un-weathered lower permeability rock. Exceptions can occur where higher permeability rocks, such as sandstone or limestone, allow faster throughflow of groundwater towards the nearest stream or other discharge point.

Perched water tables occur where a less permeable horizon (e.g. a clay layer) in an otherwise permeable sequence retains a body of groundwater above the level of the regional water table. They usually occur at shallow depths in alluvial and glacial sediments and can be difficult to identify or to delimit.

An aquifer becomes confined when it is overlain by a less permeable horizon that restricts the upward movement of groundwater. When this less permeable horizon is penetrated (e.g. by drilling), the groundwater level rises above where struck to a level controlled by the hydrostatic pressure. If this is above ground level, overflowing artesian conditions will be encountered. Confined conditions should be anticipated, where possible, in order to plan for the problems they can generate.

Individual sites will always require more detailed assessments to determine the specific impact on groundwater resources. The maps represent conditions only at the ground surface. Where the soil and/or underlying formations have been disturbed or removed the vulnerability class may have been changed and site-specific data will be required. Sites in urban areas and restored or current mineral workings are classified as having high (urban) soil leaching potential until proved otherwise.

Table 2. Hydrogeology summary

Geological unit	Groundwater potential	Water level and strikes	Groundwater vulnerability classification
Balderton Sand and Gravel Member	Moderate to high permeability with water movement predominantly through the sands and gravels.	Onsite boreholes indicate groundwater at varied levels in the Sand and Gravel deposits.	Secondary A Aquifer of high vulnerability.
Charmouth Mudstone Formation	Low given the cohesive nature of these soils.	No local boreholes in the Charmouth Formation.	Secondary B Aquifer medium vulnerability.

3.5 Groundwater Vulnerability

This section reviews all components of hydrology, geology and topsoil surface water drainage to assess risk notably to groundwater.

3.5.1 Source Protection Zones

The position of the site relevant to current groundwater protection zones is shown in Figure 7.

The proposed development site does not lie within a Source Protection Zone.

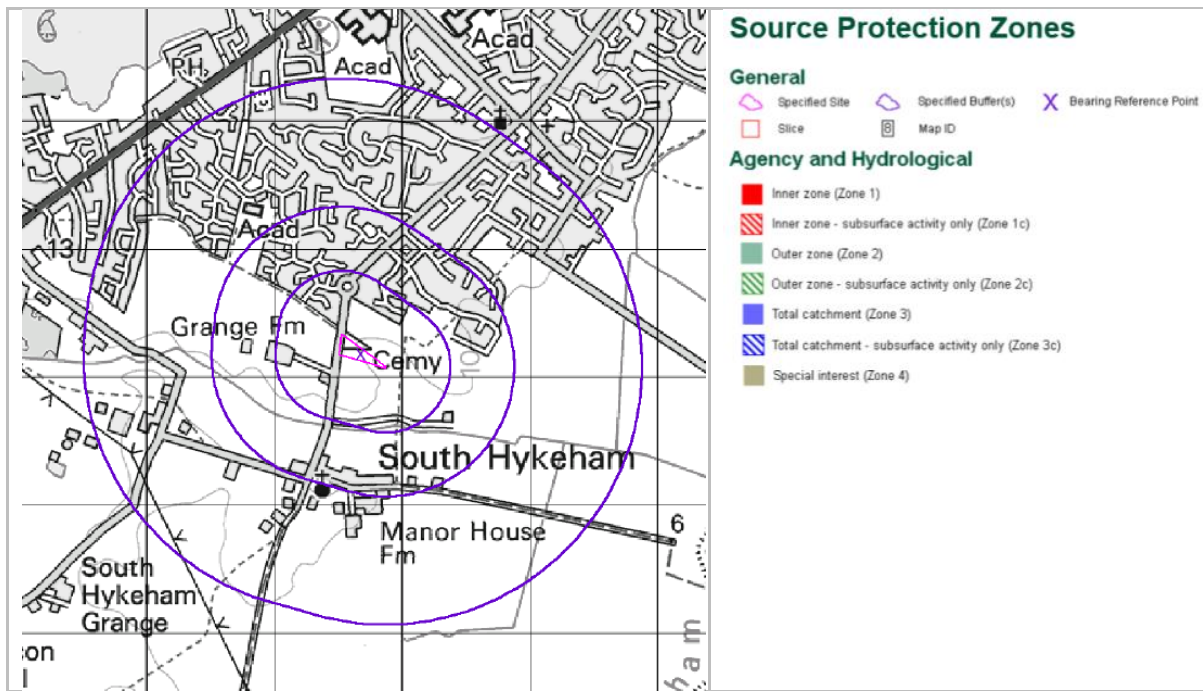


Figure 6. Groundwater Source Protection Zones associated with the site.

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Source Protection Zones (SPZs) provide an indication of the risk to groundwater supplies that may result from potentially polluting activities and accidental releases of pollutants. Generally, the closer the activity or release is to a groundwater source the greater the risk. Three zones (an inner, outer and total catchment) are usually defined although a fourth zone (zone of special interest) is occasionally defined.

The Agency has subdivided groundwater source catchments into four zones. Two of these are determined by the travel time of potential pollutants, the third by the source catchment area itself and the fourth is a "Zone of Special Interest". This fourth zone highlights areas where known local conditions mean that potentially polluting activities could impact on a groundwater source even though the area is outside the normal catchment of that source.

- **Zone I (Inner Protection Zone)** - This zone is defined by a travel time of 50-days or less from any point within the zone at, or below, the water table. Additionally, the zone has, as a minimum, a 50-meter radius. It is based principally on biological decay criteria and is designed to protect against the transmission of toxic chemicals and water-borne disease.
- **Zone II (Outer Protection Zone)** - This zone is defined by the 400-day travel time, or 25% of the source catchment area, whichever is larger. The travel time is derived from consideration of the minimum time required to provide delay, dilution and attenuation of slowly degrading pollutants.
- **Zone III (Total catchment)** - This zone is defined as the total area needed to support the abstraction or discharge from the protected groundwater source.
- **Zone of Special Interest** - For some groundwater sources an additional Zone of Special Interest may be defined. These zones highlight areas (mainly on non-aquifers) where known local conditions mean that potentially polluting activities could impact on a groundwater source even though the area is outside the normal catchment of that source.

3.5.2 Aquifer Vulnerability

The Groundwater Vulnerability maps are produced at a 1:100,000 scale. They show, by means of colour coding, those areas of the country where water-bearing rocks (aquifers) are present. They also show the vulnerability of groundwater to pollution. The aquifers are classified into Principal, Secondary and unproductive aquifers according to their physical properties and their consequent value as a resource.

The classification of the land surface reflects the ability of contaminants to leach through the covering soils and pose a potential risk to groundwater at depth. The maps also indicate areas where the presence of low permeability drift may provide additional groundwater protection.

These maps can therefore be used for an initial screening assessment of the vulnerability of groundwater to contaminants applied to the surface of the ground. They do not provide all information relevant to the determination of vulnerability, such as the depth to water table or nature of the drift deposits. Site-specific information would always be needed for a detailed assessment of vulnerability at a given location. The original groundwater vulnerability maps were produced some time ago.

Groundwater Vulnerability Maps provide information on how significant the ground waters are likely to be and if they are vulnerable to pollution occurring at the land surface. The maps have descriptions on them to explain the different aquifer and soil types.

Areas shown as principal aquifers have strategic significance for water resource; they often support large abstractions for the public water supply.

Secondary aquifers have a more localised significance to domestic, agricultural and industrial users (although they may still be used for drinking water). Unproductive aquifers do not store significant amounts of groundwater. However, in some areas they can support local supplies: e.g. small springs feeding individual properties.

3.5.3 Superficial Aquifer Designation

Figure 8 below shows that the Balderton Sand and Gravel Member mapped on site are designated as a Secondary A Aquifer, such soils have the potential to provide small amounts of water but are limited by the soil types.

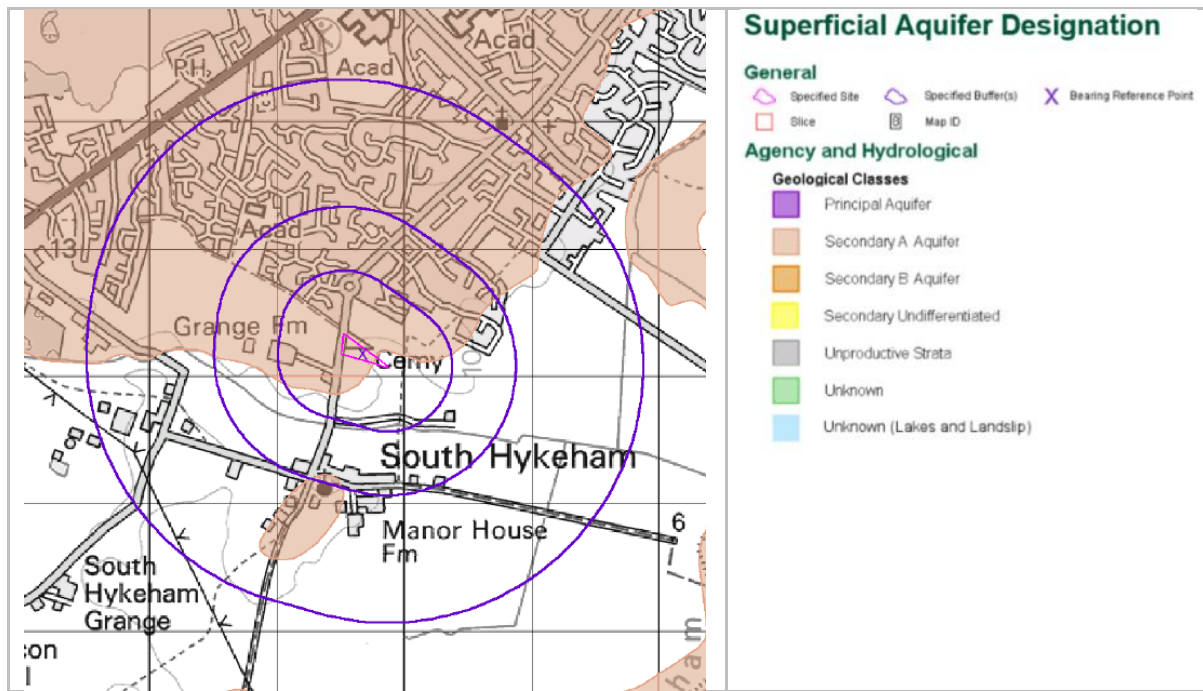


Figure 7. Superficial drift aquifer designation associated with the site.

3.5.4 Bedrock Aquifer Designation

Figure 9 below shows that the Charmouth Mudstone Formation is designated as a Secondary B Aquifer, such soils have potential to provide modest to limited amounts of water, but the nature of the soil limits their use.

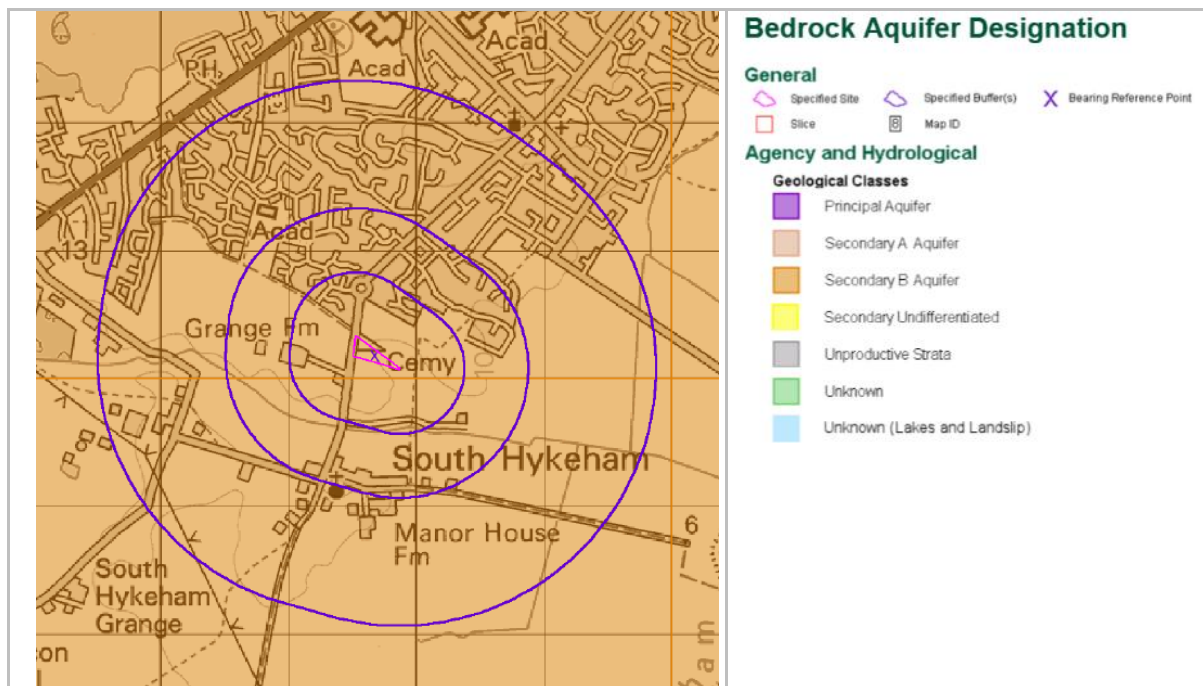


Figure 8. Bedrock aquifer designation

3.5.5 Groundwater Vulnerability

Figure 10 below indicates that the site should be considered to be a moderate vulnerability secondary B aquifer with regards to the bedrock, whilst the superficial deposits are also listed as a Secondary A aquifer of high vulnerability. Therefore, the site is considered to be particularly sensitive with regards to the underlying groundwater table.

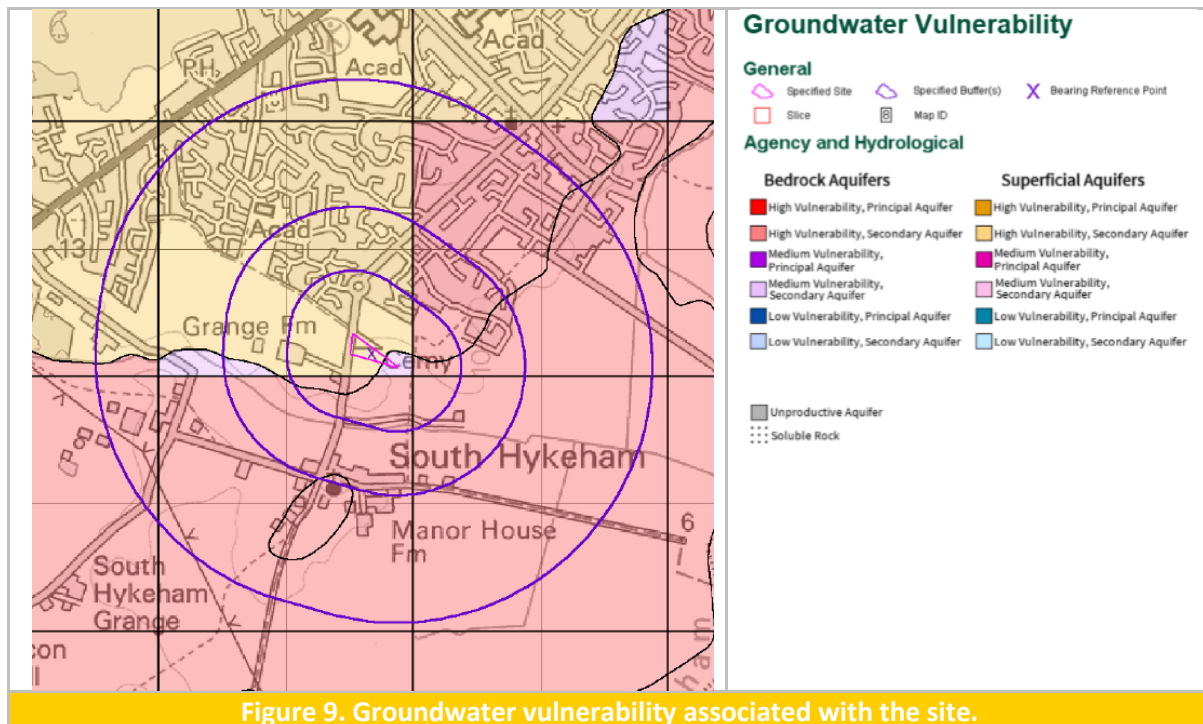


Figure 9. Groundwater vulnerability associated with the site.

3.5.6 Flood Risk – Rivers and Sea

The site is within Flood Zone 1 land which is at low risk- less than 1 in 1,000 in any given year (Figure 11). From this respect, the land is suitable for use as a cemetery.

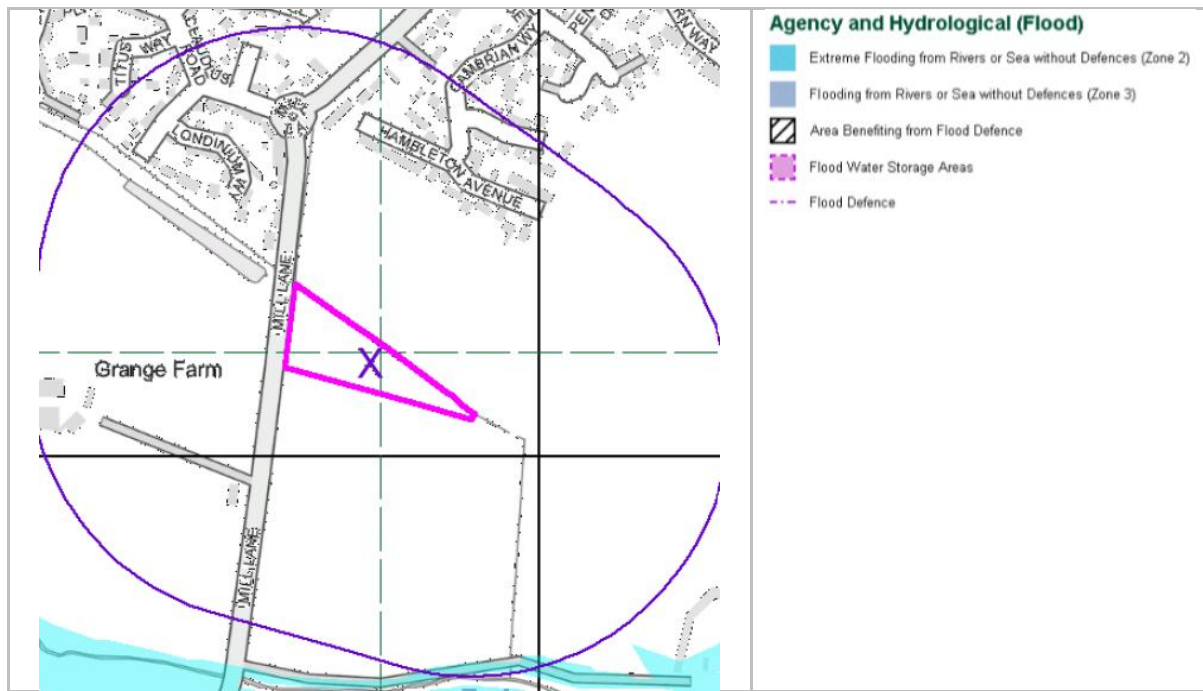


Figure 10. Map of Flood Risk Zones

3.5.7 Abstractions/Wells in the vicinity of the site

There are no listed groundwater abstraction points mapped within 400m of the site.

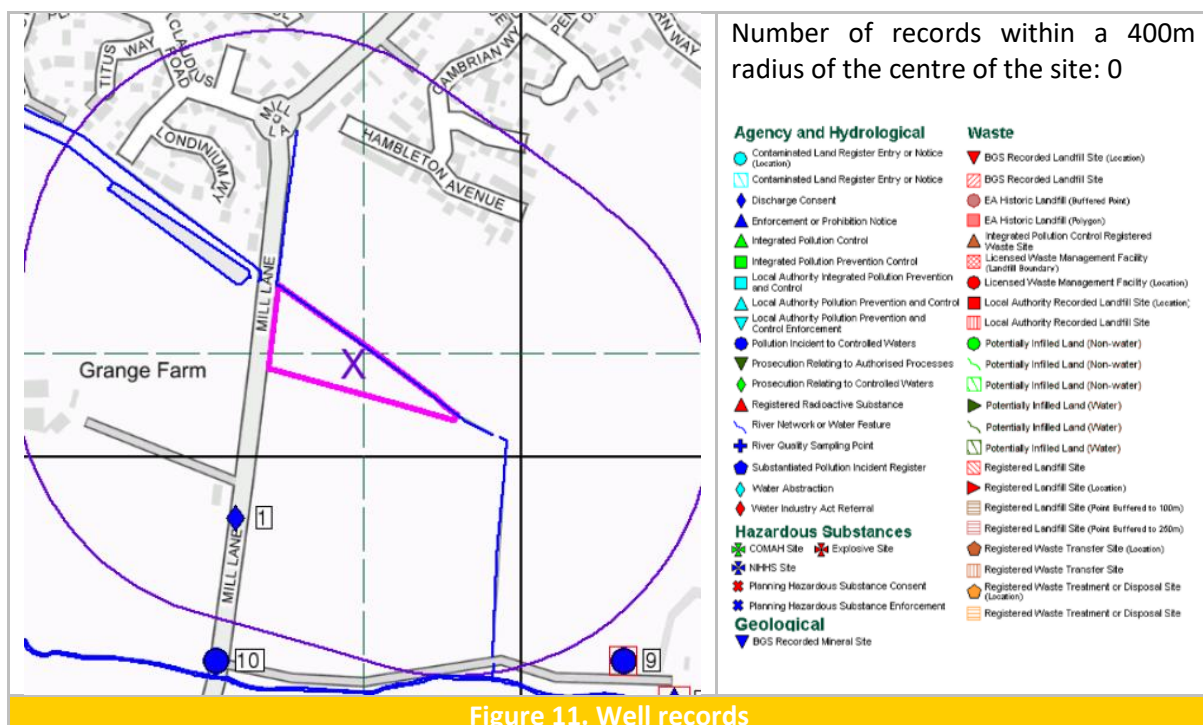


Figure 11. Well records

3.6 Meteorological Data

The site is situated in hydrological region 5 and has a Standard Average Annual Rainfall (SAAR) of 593mm. A review of the local Met Office Rainfall station has been undertaken, and the last few years of annual rainfall data is summarised below:

- 2021 – 608.6mm
- 2022 – 597.5mm
- 2023 – 770.1mm
- 2024 – 696.2mm
- 2025 – 563.7mm
- 2026 – 178.6mm (provisional 2 months)

The data shows that over the last 3 years, the site received above average volumes of rainfall in 2024 and 2023 with lower than average in 2025 which suggests that the local water table and soil moisture could be below average.

3.7 Surface Water Flooding

The majority of the site is not mapped at risk of surface water flooding. There are some small areas mapped at high risk along ditch line on the northern boundary.

Any construction/development works which might increase the risk of flooding on or off site need to be identified and the risks assessed and mitigated using a suitable SUDS compliant approach.

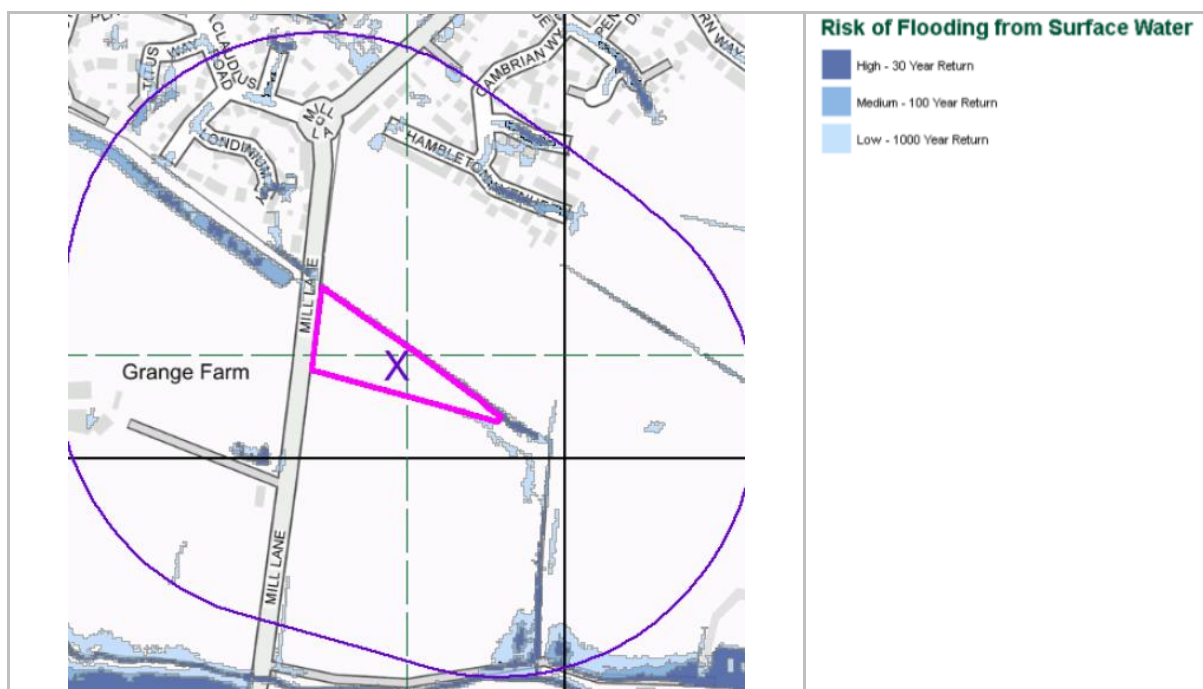


Figure 12. Map of surface water flood risk.

3.8 Existing Site Issues

The site service team have reported a number of issues when constructing new or reopening older graves. The main ones being the ingress of groundwater and also the instability of the sidewalls of the graves.

The groundwater in new graves was normally at a depth of some 900mm depth, and would normally be overlying a more cohesive clay soil. Whilst the groundwater from reopens would normally be via the sides and from the base of reworked soils.

Instability of the sidewalls was a problem in both new graves and older graves, but more prevalent in reopens, due to the worked ground in the neighbouring graves.



Figure 13. Water entering reopened grave



Figure 14. Water entering reopened grave

3.9 Previous Site Investigations

A series of windowless sampler boreholes were installed in April 2025 by Solmek, with longer term monitoring being undertaken, along with some chemical analysis.

Whilst a Cemetery Basement Impact Assessment was undertaken by H Fraser Consulting in June 2025.

There were a number of issues raised regarding the Solmek monitoring wells, including:

- Poor installations – WS04 & WS05 had slotted pipework exposed at surface, allowing surface water ingress. The bentonite seal in WS01 appeared to be non-existent at surface, again potentially allowing surface water ingress. WS03 – water at surface in an apparently sealed well, indicates that there's an issue with the seal.
- Monitoring depths – the wells are all in the region of 4-5m deep. There is only a single response zone on the pipework – 1m to base of borehole. It's impossible to determine if the water we are reading is coming from the shallow ingress, or from a groundwater table at depth (which won't pose a risk to burial construction, but potentially any overall groundwater risk to wider area). Given the cohesive soils at depth, the wells are more likely acting as sumps for shallow water / surface water ingress, before the water slowly soaks into the fractures in the weathered mudstone.
- Soils encountered – the logs don't appear to indicate the clay layers the site team mentioned, just more of a single mass of soil clay (albeit sandy/gravelly) – based on the description from the logs water ingress would be minimal.
- Location – the wells appear to be in more or less a straight line, with limited spacing to map the site.

Whilst the H Fraser Consulting Report concluded that a deep drainage solution (below burials) would be required. The report indicates this would need to be in the region of 5m deep.

The main issue with this solution is that the EA guidance, specifically preclude deep drainage below burials due to the high potential for these drains to transport burial contaminants. Also, should drains be installed at this depth, they would be uneconomical to install given the cohesive strength of the mudstone, but also the impermeable nature of these soils, any water would have no pathway to enter these drains.

Given the issues with the previous reports, some additional sitework / assessment was proposed. This would need to include:

- Additional groundwater monitoring wells – varied depths to pick up shallow and deep water
 - Groundwater Quality Suites of the existing water
 - Test graves in the winter month
 - Provision of an updated Groundwater Risk Assessment
-

4 Intrusive Investigation

4.1 General Site Description

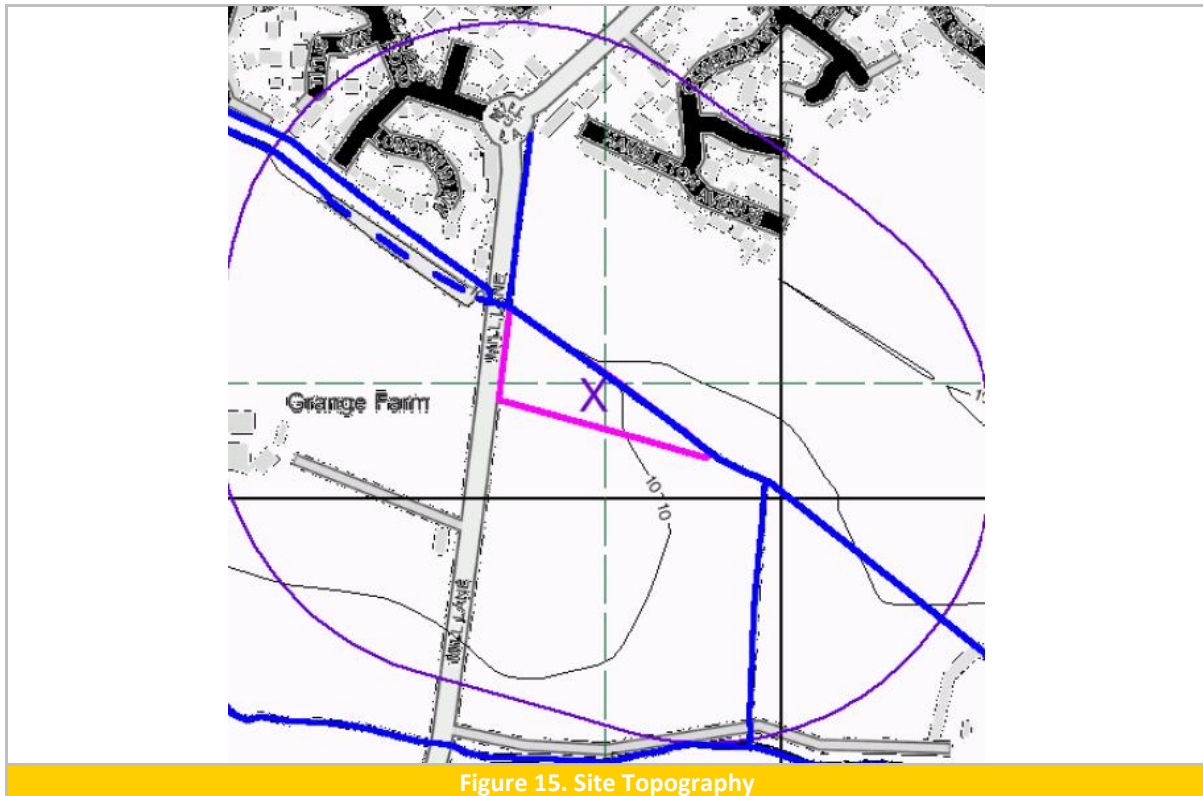
The site comprises a cemetery to the east of Mill Lane in North Hykeham.

The site at the time of our investigation was used as a cemetery. There were a number of semi-mature / mature trees within and around the site boundaries and through the site. There was a large drainage ditch along the sites northern boundary.

No evidence of any onsite contamination was noted during our walkover survey.

4.2 Site Topography

The site is fairly flat lying at around +10m AOD.



4.3 Site Investigation

Two phases of intrusive site investigation were undertaken. The first was undertaken in September 2025 and comprised a total of 9 No. windowless sampler boreholes excavated across the site to provide an assessment of the ground conditions and to assess whether any shallow groundwater is encountered on site. The boreholes were excavated at the approximate locations shown below to maximum depths of 4.00m bgl. The boreholes were distributed across the entire site to assess soil variability and depth to groundwater. Groundwater monitoring wells are installed in all boreholes.

Whilst the second phase of investigation was undertaken in early February 2026 and comprised 5 No trial pits. These were designed to represent test graves and were excavated to 1.40m bgl (single depth). Three of the pits (TP101-103) were left overnight to simulate the existing grave construction conditions.



Figure 16. Exploratory Hole Location Plan

4.4 Soils as Found

The ground conditions encountered on site comprised a shallow covering of a dark brown clayey Topsoil overlying highly varied SAND / CLAY soils followed by silty CLAY.

Detailed soil logs are attached in Appendix A. The following table provides a general summary of the soils as found on site.

Table 3. Soils as Found

Depth m bgl (Top to Base)	Soil Type	Description
GL to 0.20 / 0.50m	Topsoil	Brown / black slightly gravelly clayey TOPSOIL
– 0.70 / 1.60m	Highly varied SAND & CLAY soils	Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.
- 4.00m+	Silty CLAY	Dark brown / grey mottled silty CLAY with lithorelic structure.

4.5 Groundwater

Groundwater was not encountered during the initial WLS site investigation works due to the preceding dry weather, with longer term monitoring indicating perched groundwater entering the boreholes from the surrounding shallow soils. Varied groundwater strikes were encountered during the trial pitting exercise – these were at differing depths and also differing volumes of water. It should also be noted that the groundwater was not a continuous flow into the pit.

4.6 Trench Stability

Whilst windowless sampler boreholes do not give the best indication of trench stability in open excavations, it was observed that the underlying soils were generally stable in the short term. The test grave exercise indicated that when left overnight, some of the pits were unstable, with some localised sidewall collapses after 24hrs. These were more prevalent in the pits with more significant water strikes.



Figure 17. Initial Side Wall Collapses (TP102)



Figure 18. TP102 after 24hrs – note undermining of pit sides

In any excavation where personnel must enter, a risk assessment should be undertaken to assess whether the works could be achieved by using an alternative method. If not, close lateral support will be required and dewatering of excavations from sumps could potentially be required.

4.7 Groundwater Contamination Testing

Three groundwater sample was collected from WLS103, 106 and 108 with full results listed below:

Table 4. Groundwater Test Results

General Inorganics		WLS103	WLS106	WLS108	Screening Value
		11/02/2026	11/02/2026	11/02/2026	
pH	pH Units	7.4	7.2	6.9	-
Sulphate as SO ₄	mg/l	261	26.9	43.4	250 mg/l (UK DWS)
Ammonium as NH ₄	mg/l	<0.08	<0.08		0.05mg/l (UK DWS)

				<0.08	0.3mg/l (EQS Freshwater)
Total Organic Carbon (TOC)	mg/l	6.26	10.1	18.9	-
Nitrate as N	mg/l	0.8	1	5.6	11.3mg/l (UK DWS)
Nitrite as N	mg/l	<0.08	<0.08	<0.08	100ug/l (UK DWS)
Chemical Oxygen Demand (Total)	mg/l	219	435	226	125mg/l (UWWTR)
BOD (Biochemical Oxygen Demand) (Total)	mg/l	4	2	4	-
Total Oxidised Nitrogen (TON)	mg/l	0.8	1	5.6	15mg/l (UWWTR)
Total Chlorine	mg/l	<0.10	<0.10	<0.10	
Dissolved Oxygen	mg/l	3.8	3.5	3.5	
Calcium (dissolved)	mg/l	144	55.5	89.2	250mg/l (UK DWS)
Iron (dissolved)	mg/l	<0.020	0.03	0.044	0.2mg/l (UK DWS)
Magnesium (dissolved)	mg/l	30	12.9	14.1	50mg/l (UK DWS)
Phosphorus (dissolved)	mg/l	<0.016	<0.016	0.021	2200ug/l (UK DWS)
Potassium (dissolved)	mg/l	1.26	1.74	0.423	12mg/l (UK DWS)
Sodium (dissolved)	mg/l	61.5	29.5	34.9	200mg/l (UK DWS)
Environmental Forensics					
Formaldehyde	mg/l (ug/l)	<0.029	<0.029	<0.029	0.1ug/l (UK DWS) 5ug/l EQS Fresh Water
Microbiological					
Faecal Streptococci (as enterococci)	cfu/100ml	0	15	210	-
Clostridium Perfringens	cfu/100ml	0	1	0	-

Initial sampling from the site, indicate no elevations for the majority of contaminants of concern. There was an elevated concentration of sulphate in WLS103, however, given this is potentially coming

from the surrounding clay soils rather than burial leachate. Whilst the elevated COD values, are likely to be from the stagnant nature of the water.

Solmek also undertook some groundwater sampling, however, these tests were taken from the older wells, which have been proven to be monitoring surface water rather than groundwater, and have therefore not been assessed as part of this assessment.

5 Burial Suitability

5.1 EA Guidance

Whilst the site is within the boundary of an existing cemetery and therefore needs no additional permission from the EA to undertake burials within its confines, CDS have undertaken a review of the geological and hydrogeological properties of the site and review the sites properties against the published EA Statutory Guidance.

A burial site must be:

- ✓ outside a source protection zone 1 (SPZ1)
- ✓ at least 250 metres from any well, borehole or spring supplying water for human consumption or used in food production – for example at farm dairies
- ✓ at least 30 metres from any spring not used for human consumption or not used in food production or watercourse
- ✓ **at least 10 metres from any field drain, including dry ditches**

All graves must:

- ✓ **have at least 1 metre clearance between the base of the grave and the top of the water table**
- ✓ not be dug in unaltered or un-weathered bedrock
- ✓ not be dug in areas susceptible to groundwater flooding
- ✓ be deep enough so at least 1 metre of soil will cover the top of the coffin, body or animal carcass

The presence of the ditch, which was dry during parts of the year, means that a 10m non-burial buffer would be required along its length. However, these areas could be utilised for ash internments.

The EA state that for the guideline – “A burial must not be undertaken directly into groundwater” this does not include *“perched water has entered the grave from surrounding soils, but there is not a continued flow of water into the grave”*. The groundwater encountered during the test graves was at varied depths and flow rates, with the soil consistency encountered also being very varied (sand / clay soils). This variation makes it extremely difficult to map the water bearing soils across the cemetery site, meaning that not one area of the cemetery is more suitable than another.

On this basis, the site is considered to currently **does** meet the minimum statutory requirements and would not be considered to pose a significant risk to the underlying groundwater table. Further to this, correspondence from the EA dated 4th September 2025m confirms that the EA do not see the perched groundwater entering the graves as true groundwater and do not see it as posing a risk to the local environment.

6 Future Burial Guidance

In terms of suitability of the site for burials, this site is considered suitable for ongoing burials to take place in line with the current published EA guidance. However, the water ingress and grave side instability pose a H&S risk, not only to the grave diggers, but also to the mourners during the actual funerals (there has been some occurrences of people falling into graves at this site due to instability).

The results of the test graves and boreholes indicate that the soils are very varied, and that not one area is more suitable, therefore, all parts of the remaining cemetery can be used. This variability means that a shallow drainage solution would **not** be suitable for the site. An outfall for any drainage solution would also prove difficult given the large foul sewer running along the southern side of the drainage ditch.

However, based upon the conditions encountered, there should be no issues with continuing burials, albeit some additional requirements will be needed during the digging of graves due to the site conditions.

Correspondence with the Council has confirmed that the Council team do not physically dig the graves, this is completed by an external contractor on behalf of the funeral directors. From the photos provided and speaking to the site team / council, it is also apparent that when completing graves, none of them have been previously shored.

To reduce the risks posed to grave diggers and the public, the following should be stipulated as requirements for all new / reopened graves:

- Shoring would be required for any grave (new / reopens) – this shoring would need to be left in place up until the soils are replaced following coffin placement. It would be prudent to install more substantial shoring than simple wooden boards – a trench box would provide additional support, especially if graves are left open for a prolonged time.
- Additional boarding would be prudent around the edges of the grave to provide additional protection, in case there are localised side wall collapses – however, if the pits are adequately shored, this shouldn't be an issue.
- Graves need to be constructed as late as possible prior to the services – an afternoon burial would mean the grave would need to be constructed that morning. This would mean less time for pit instability.
- Pumping of the water entering the graves (or grey water in the areas of reopens) would be required. It is recommended that the water is pumped into a suitable container and disposed of to a licensed waste facility. A combination of sawdust / mulch / zeolite being added to the base of the grave prior to burials, to prevent any subsequent water being visible to the mourners.
- Spoil excavated from the graves should be stockpiled well away from the edges of the graves to prevent overloading of the pit sides and thus causing more instability.

Due to the varied nature of the soils and to reduce the risk posed by instability, the following should also be undertaken across the cemetery:

- Increased spacing of new graves to allow for a suitable headwall thickness between graves to prevent the current situation of increased greywater flow between existing graves.

- Single depth burials only – this will reduce the requirement to open graves within reworked soils which include more significant volumes of water.
- Zeolite base should be added to all new / reopened graves. This will absorb any remaining water and assist with reopening of graves. It will also assist with reducing any potential for groundwater contamination.

Although, the site is already an operational cemetery and would in theory be able continue to operate as it currently does, as operators, you have an obligation to ensure that you do not cause a significant risk to the underlying groundwater. Therefore, it's recommended that following the reintroduction of burials at the site, some longer-term groundwater quality monitoring might be prudent.

7 Reporting Details

Report Author: Callum Ward BSc FGS – Principal Engineer

Verification: Tom Watkins MSci FGS - Project Engineer

Date: 4th March 2026

APPENDIX A

SOIL LOGS

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS101	
		North Hykeham Cemetery						Hole Type:		WLS	
		Project Location:						Level:			
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW	
		Client:		Contractor:		The CDS Group		Scale:		1:25	
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1	
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description					
		0.30		(0.30)		Brown / black slightly gravelly clayey TOPSOIL					
		0.60		(0.30)		Brown gravelly silty CLAY					
		0.70		(0.10)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites. Dark brown / grey mottled silty CLAY with lithorelic structure.					
		2.00		(1.30)		End of Borehole at 2.000m					
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
Dry upon completion											

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS102		
		North Hykeham Cemetery						Hole Type:		WLS		
		Project Location:						Level:				
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW		
		Client:		Contractor:		The CDS Group		Scale:		1:25		
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1		
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description						
		0.30		(0.30)		Brown / black slightly gravelly clayey TOPSOIL						1
				(0.75)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.						
		1.05		(0.95)		Dark brown / grey mottled silty CLAY with lithorelic structure.						
		2.00				End of Borehole at 2.000m						2
												3
												4
												5
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	
Remarks												
Dry upon completion												

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS103		
		North Hykeham Cemetery						Hole Type:		WLS		
		Project Location:						Level:				
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW		
		Client:		Contractor:		The CDS Group		Scale:		1:25		
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1		
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description						
		0.40		(0.40)		Brown / black slightly gravelly clayey TOPSOIL						
		0.60		(0.20)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.						
				(1.40)		Dark brown / grey mottled silty CLAY with lithorelic structure.						1
		2.00				End of Borehole at 2.000m						2
												3
												4
												5
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	
Remarks												
Dry upon completion												

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS104	
		North Hykeham Cemetery						Hole Type:		WLS	
		Project Location:						Level:			
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW	
		Client:		Contractor:		The CDS Group		Scale:		1:25	
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1	
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description					
		0.20		(0.20)		Brown / black slightly gravelly clayey TOPSOIL					
				(0.50)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.					
		0.70				Dark brown / grey mottled silty CLAY with lithorelic structure.					
				(3.30)		End of Borehole at 4.000m					
		4.00									
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
Dry upon completion											

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS105		
		North Hykeham Cemetery						Hole Type:		WLS		
		Project Location:						Level:				
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW		
		Client:		Contractor:		The CDS Group		Scale:		1:25		
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1		
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description						
		0.30		(0.30)		Brown / black slightly gravelly clayey TOPSOIL						
		0.90		(0.60)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.						
						<u>Brown sandy gravelly CLAY band</u>						
		2.00		(1.10)		Dark brown / grey mottled silty CLAY with lithorelic structure.						
						End of Borehole at 2.000m						
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	
Remarks												
Dry upon completion												

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS106		
		North Hykeham Cemetery						Hole Type:		WLS		
		Project Location:						Level:				
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW		
		Client:		Contractor:		The CDS Group		Scale:		1:25		
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1		
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description						
		0.30		(0.30)		Brown / black slightly gravelly clayey TOPSOIL						1
		0.80		(0.50)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.						
						Dark brown / grey mottled silty CLAY with lithorelic structure.						
		2.00		(1.20)		End of Borehole at 2.000m						2
												3
												4
												5
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation				
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation	
Remarks												
Dry upon completion												

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS107			
		North Hykeham Cemetery						Hole Type:		WLS			
		Project Location:						Level:					
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW			
		Client:		Contractor:		The CDS Group		Scale:		1:25			
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1			
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description							
		0.40		(0.40)		Brown / black slightly gravelly clayey TOPSOIL						1	
				(0.90)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.							
				(0.70)		Dark brown / grey mottled silty CLAY with lithorelic structure.							
		2.00		End of Borehole at 2.000m						2			
													3
													4
													5
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation					
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation		
Remarks													
Dry upon completion													

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS108	
		North Hykeham Cemetery						Hole Type:		WLS	
		Project Location:						Level:			
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW	
		Client:		Contractor:		The CDS Group		Scale:		1:25	
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1	
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description					
		0.30		(0.30)		Brown / black slightly gravelly clayey TOPSOIL					
				(1.20)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites. <u>Brown sandy gravelly CLAY band</u>					
		(2.50)					Dark brown / grey mottled silty CLAY with lithorelic structure.				
				4.00			End of Borehole at 4.000m				
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
Dry upon completion											

CDS Cemeteries & Crematoria		Project Name:		Windowless Sampler Borehole Log				Hole ID:		WLS109	
		North Hykeham Cemetery						Hole Type:		WLS	
		Project Location:						Level:			
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:		CDS-North Hykeham-25		Logged By:		CW	
		Client:		Contractor:		The CDS Group		Scale:		1:25	
		North Hykeham Town Council		Date:		03/09/2025		Page No:		Sheet 1 of 1	
Well	Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description					
		0.50		(0.50)		Brown / black slightly gravelly clayey TOPSOIL					
				(1.10)		Orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.					
						<u>Brown sandy gravelly CLAY band</u>					
				(0.40)		Dark brown / grey mottled silty CLAY with lithorelic structure.					
		2.00				End of Borehole at 2.000m					
Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
Remarks											
Dry upon completion											

CDS Cemeteries & Crematoria			Project Name:		Trial Pit Log		Hole ID:	TP101
			North Hykeham Cemetery				Hole Type:	TP
			Project Location:				Level:	
			Mill Ln, North Hykeham, Lincoln LN6 9TU				Project ID:	CDS-North Hykeham-25
			Client:		Contractor:	The CDS Group	Scale:	1:20
			North Hykeham Town Council		Date:	09/02/2026	Page No:	Sheet 1 of 1
Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description			Vertical Scale
	0.25		(0.25m)		Brown / black slightly gravelly clayey TOPSOIL			
			(0.95m)		Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.			
	1.20		(0.20m)		Dark brown / grey mottled silty CLAY with lithorelic structure.			
	1.40			End of Trial Pit at 1.400m				
Dimensions			Trial Pit Support and Stability				Groundwater Strikes	
Pit Length (m)	Pit Width (m)		Pit Stability	Shoring Used	Remarks	Remarks		
			Some minor instability of pit sides					
Remarks								
Moderate water strike at 1.10m bgl.								

CDS Cemeteries & Crematoria			Project Name:		Trial Pit Log		Hole ID:	TP102
			North Hykeham Cemetery				Hole Type:	TP
			Project Location:				Level:	
			Mill Ln, North Hykeham, Lincoln LN6 9TU				Project ID:	CDS-North Hykeham-25
			Client:		Contractor:	The CDS Group	Scale:	1:20
			North Hykeham Town Council		Date:	09/02/2026	Page No:	Sheet 1 of 1
Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description			Vertical Scale
	0.25		(0.25m)		Brown / black slightly gravelly clayey TOPSOIL			
			(0.95m)		Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.			
	1.20		(0.20m)		Dark brown / grey mottled silty CLAY with lithorelic structure.			
	1.40			End of Trial Pit at 1.400m				
Dimensions			Trial Pit Support and Stability			Groundwater Strikes		
Pit Length (m)	Pit Width (m)		Pit Stability	Shoring Used	Remarks	Remarks		
			Some minor instability of pit sides					
Remarks								
Slow water strike at 0.60m bgl								

CDS Cemeteries & Crematoria			Project Name:		Trial Pit Log		Hole ID:	TP103
			North Hykeham Cemetery				Hole Type:	TP
			Project Location:				Level:	
			Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:	CDS-North Hykeham-25	Logged By:	CW
			Client:		Contractor:	The CDS Group	Scale:	1:20
			North Hykeham Town Council		Date:	09/02/2026	Page No:	Sheet 1 of 1
Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description		Vertical Scale	
	0.35		(0.35m)		Brown / black slightly gravelly clayey TOPSOIL		0.5	
	0.60		(0.25m)		Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.			
	1.40		(0.80m)		Dark brown / grey mottled silty CLAY with lithorelic structure.			
					End of Trial Pit at 1.400m		1.5	
							2.0	
							2.5	
							3.0	
							3.5	
Dimensions			Trial Pit Support and Stability			Groundwater Strikes		
Pit Length (m)	Pit Width (m)	Pit Stability		Shoring Used	Remarks	Remarks		
		Pit stable in short term						
Remarks								
Seepage at 0.50m bgl								

CDS Cemeteries & Crematoria		Project Name:		Trial Pit Log		Hole ID:	TP104
		North Hykeham Cemetery				Hole Type:	TP
		Project Location:				Level:	
		Mill Ln, North Hykeham, Lincoln LN6 9TU		Project ID:	CDS-North Hykeham-25	Logged By:	CW
		Client:		Contractor:	The CDS Group	Scale:	1:20
		North Hykeham Town Council		Date:	10/02/2026	Page No:	Sheet 1 of 1
Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description		Vertical Scale
▼	0.30		(0.30m)		Brown / black slightly gravelly clayey TOPSOIL		0.5 1.0 1.5 2.0 2.5 3.0 3.5
			(0.60m)		Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.		
	0.90		(0.50m)		Dark brown / grey mottled silty CLAY with lithorelic structure.		
	1.40		End of Trial Pit at 1.400m				
Dimensions			Trial Pit Support and Stability			Groundwater Strikes	
Pit Length (m)	Pit Width (m)	Pit Stability		Shoring Used	Remarks	Remarks	
		Pit stable in the short term					
Remarks							
Slow water strike at 0.80m bgl							

CDS Cemeteries & Crematoria			Project Name:		Trial Pit Log		Hole ID:	TP105
			North Hykeham Cemetery				Hole Type:	TP
			Project Location:				Level:	
			Mill Ln, North Hykeham, Lincoln LN6 9TU				Project ID:	CDS-North Hykeham-25
			Client:		Contractor:	The CDS Group	Scale:	1:20
			North Hykeham Town Council		Date:	10/02/2026	Page No:	Sheet 1 of 1
Water Strikes	Depth (m)	Level (m)	Thickness (m)	Legend	Stratum Description			Vertical Scale
	0.30		(0.30m)		Brown / black slightly gravelly clayey TOPSOIL			0.5
			(1.10m)		Brown gravelly silty CLAY interbedded with orange-brown / grey / brown slightly clayey gravelly SAND. Gravels consist of fine to coarse sub-rounded flints and quartzites.			
	1.40				End of Trial Pit at 1.400m			1.5
								2.0
								2.5
								3.0
								3.5
Dimensions			Trial Pit Support and Stability			Groundwater Strikes		
Pit Length (m)	Pit Width (m)	Pit Stability		Shoring Used	Remarks	Remarks		
		Pit stable in the short term						
Remarks								
Seepage at 0.70m bgl								

APPENDIX B

ENVIROCHECK REPORT

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	BDTN	Balderton Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	FULB	Fulbeck Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHAM	Charmouth Mudstone Formation	Mudstone	Not Supplied - Sinemurian
	SMD	Scunthorpe Mudstone Formation	Mudstone and Limestone, Interbedded	Not Supplied - Rhaetian

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Geology 1:50,000 Maps

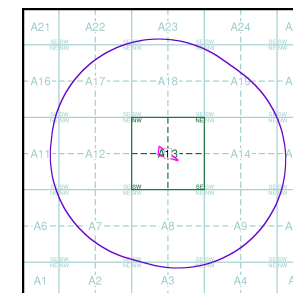
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID: 1
 Map Sheet No: 114
 Map Name: Lincoln
 Map Date: 1973
 Bedrock Geology: Available
 Superficial Geology: Available
 Artificial Geology: Available
 Faults: Not Supplied
 Landslip: Not Available
 Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

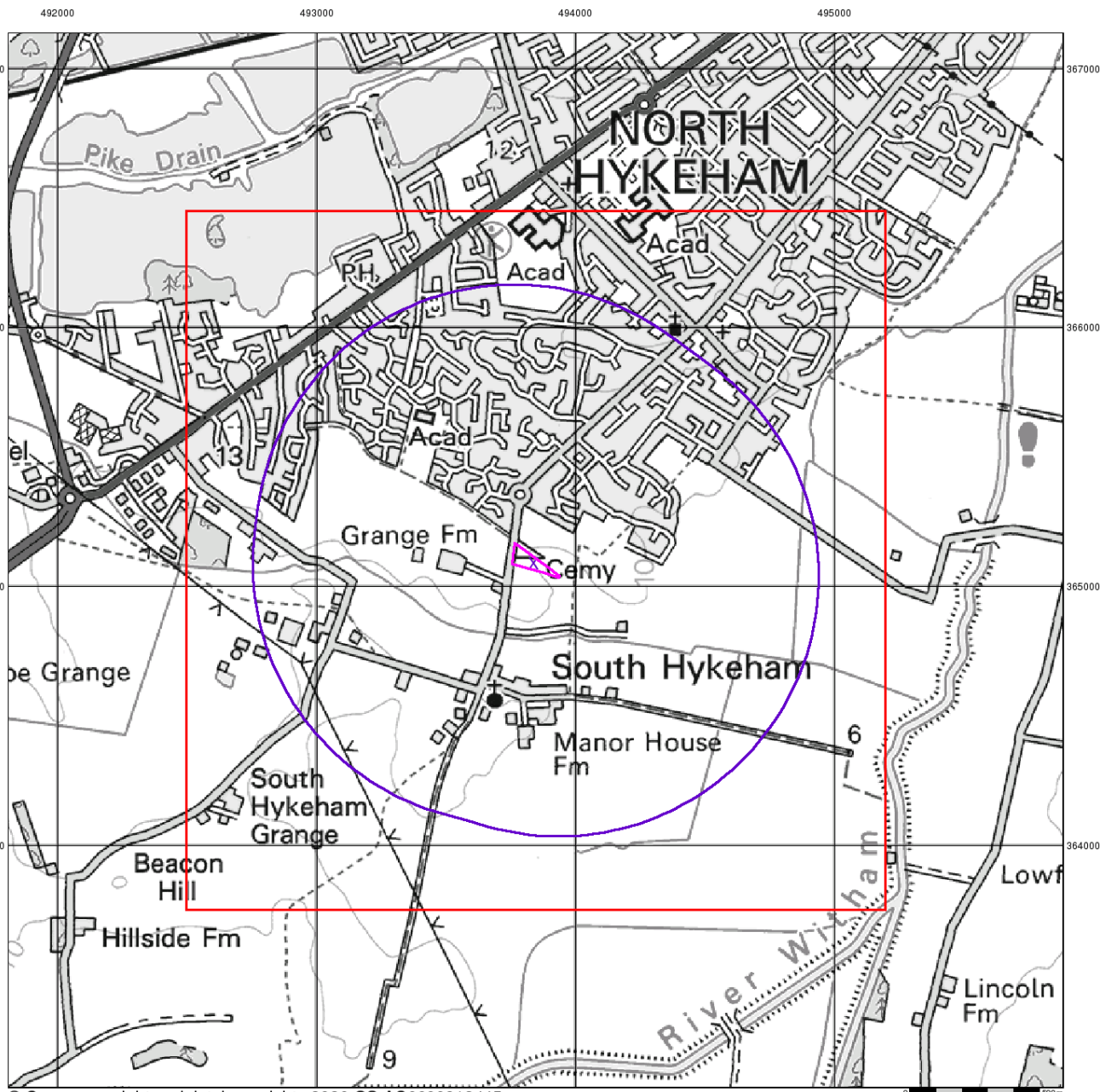
Order Number: 397017023_1_1
 Customer Reference: CDS-North Hykeham-26
 National Grid Reference: 493840, 365090
 Slice: A
 Site Area (Ha): 0.85
 Search Buffer (m): 1000

Site Details:

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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Tel: 0844 844 9952
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Artificial Ground and Landslip

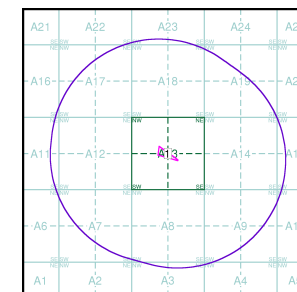
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 397017023_1_1
 Customer Reference: CDS-North Hykeham-26
 National Grid Reference: 493840, 365090
 Slice: A
 Site Area (Ha): 0.85
 Search Buffer (m): 1000

Site Details:

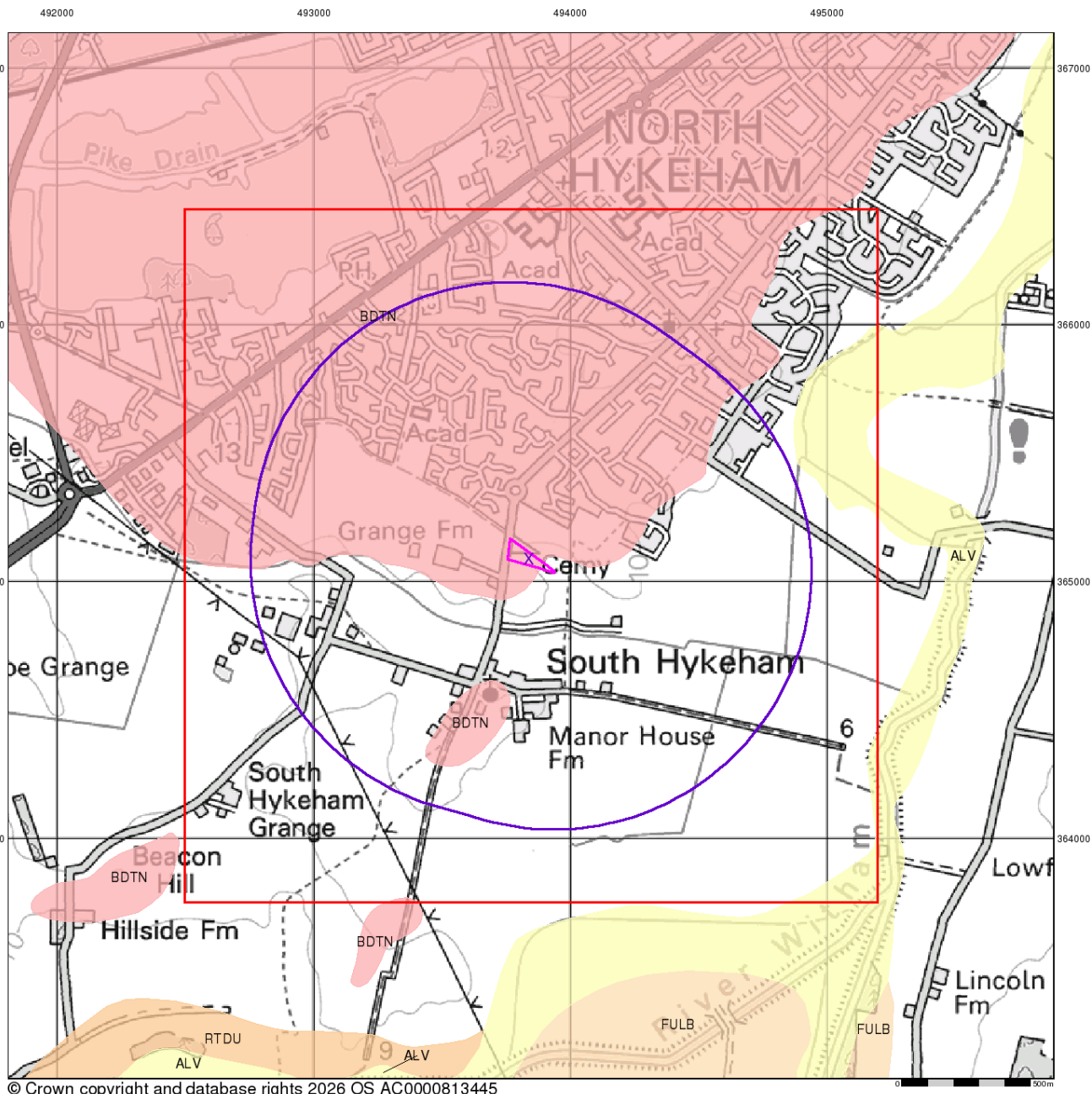
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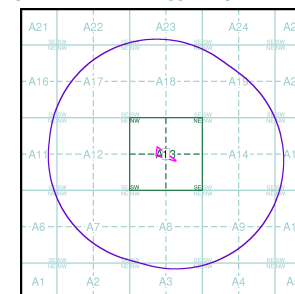
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

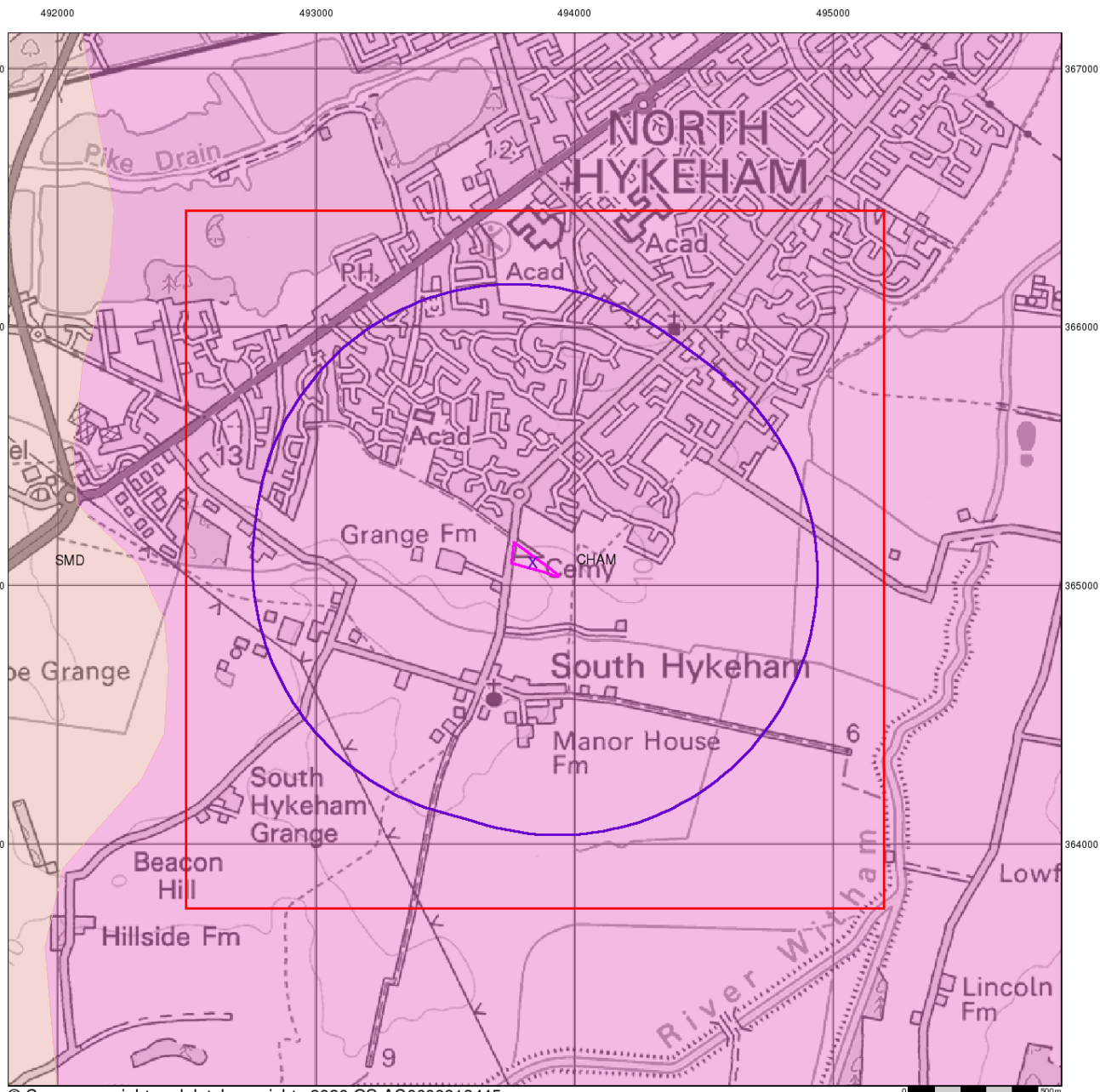
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Customer Reference: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

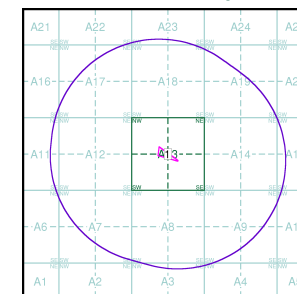
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 397017023_1_1
Customer Reference: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details:

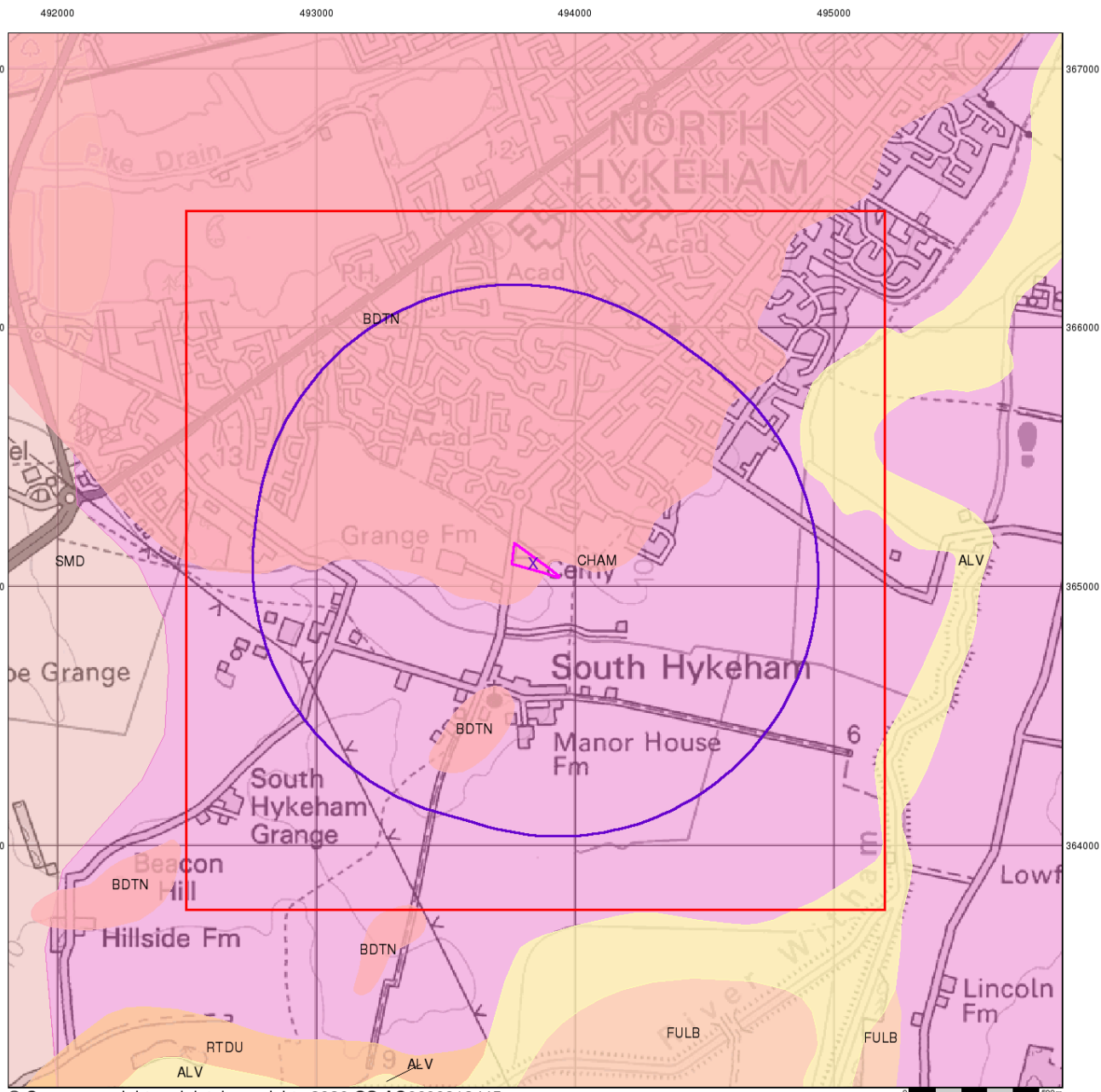
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Combined Surface Geology

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.

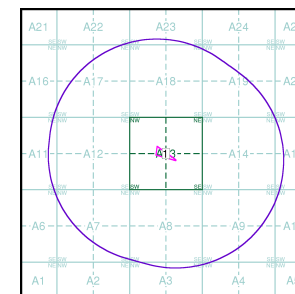
Additional Information

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: 397017023_1_1
Customer Reference: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details:

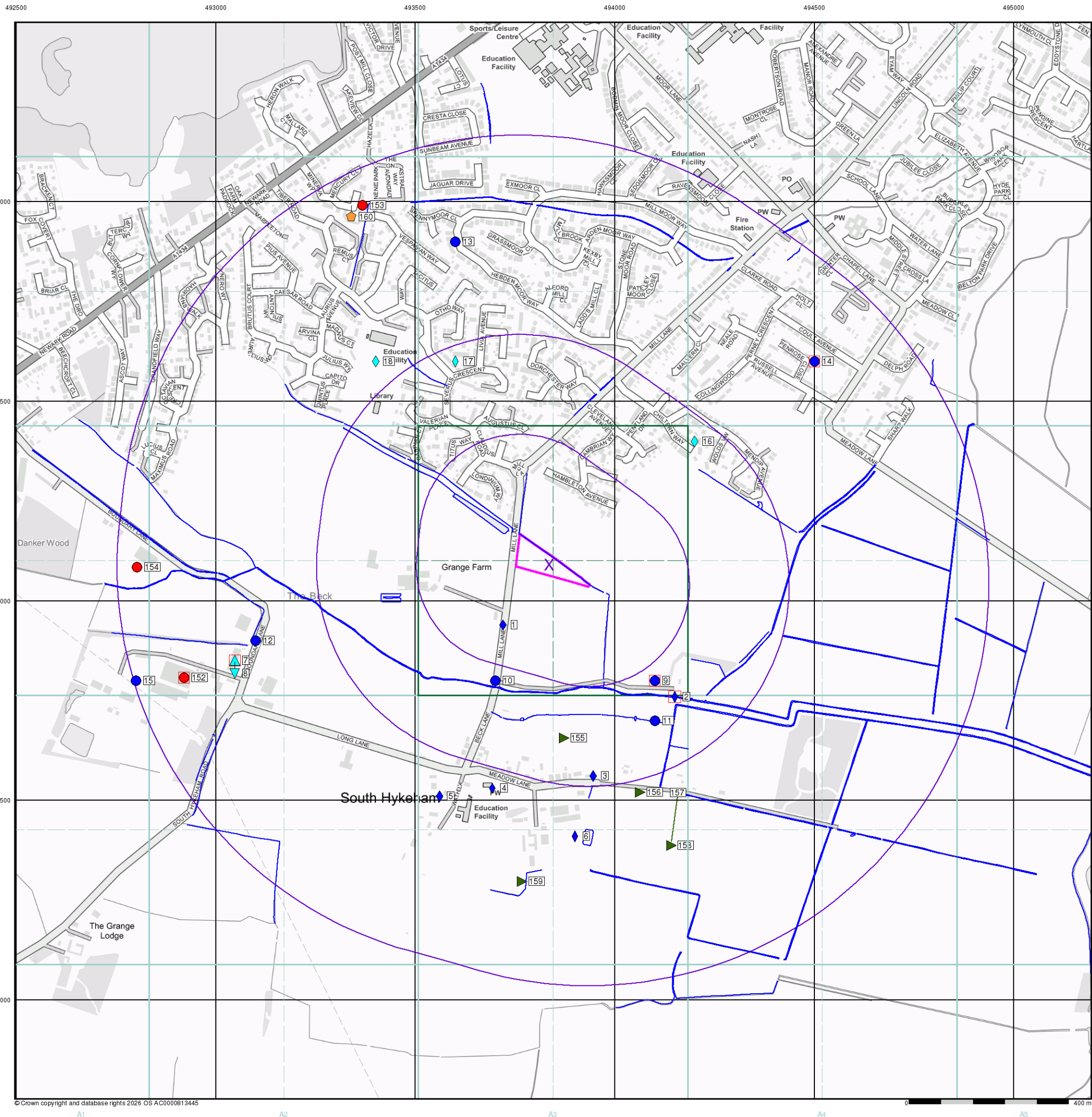
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General

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

Agency and Hydrological

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

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

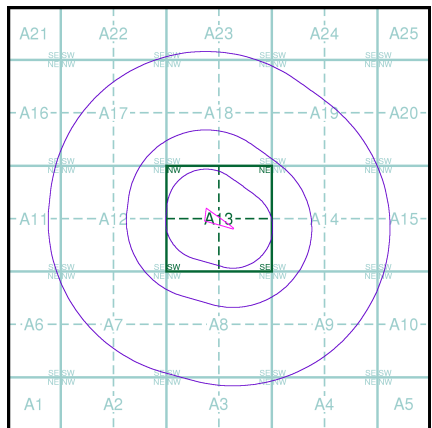
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A

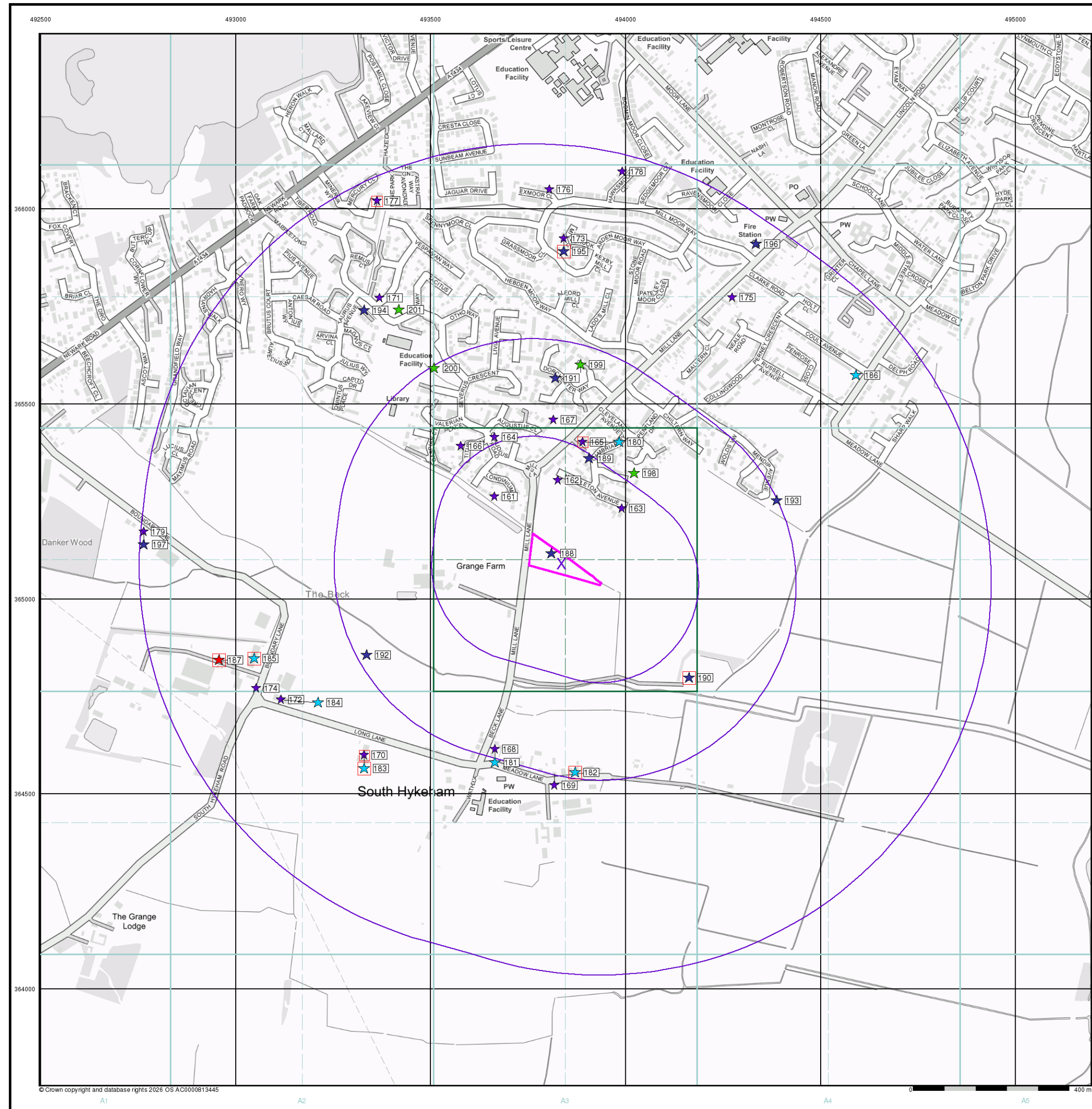


Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB



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Industrial Land Use Map

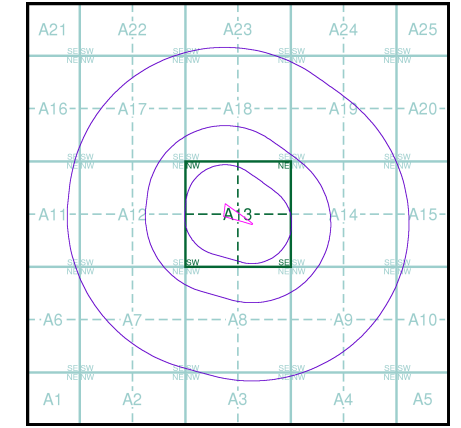
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A

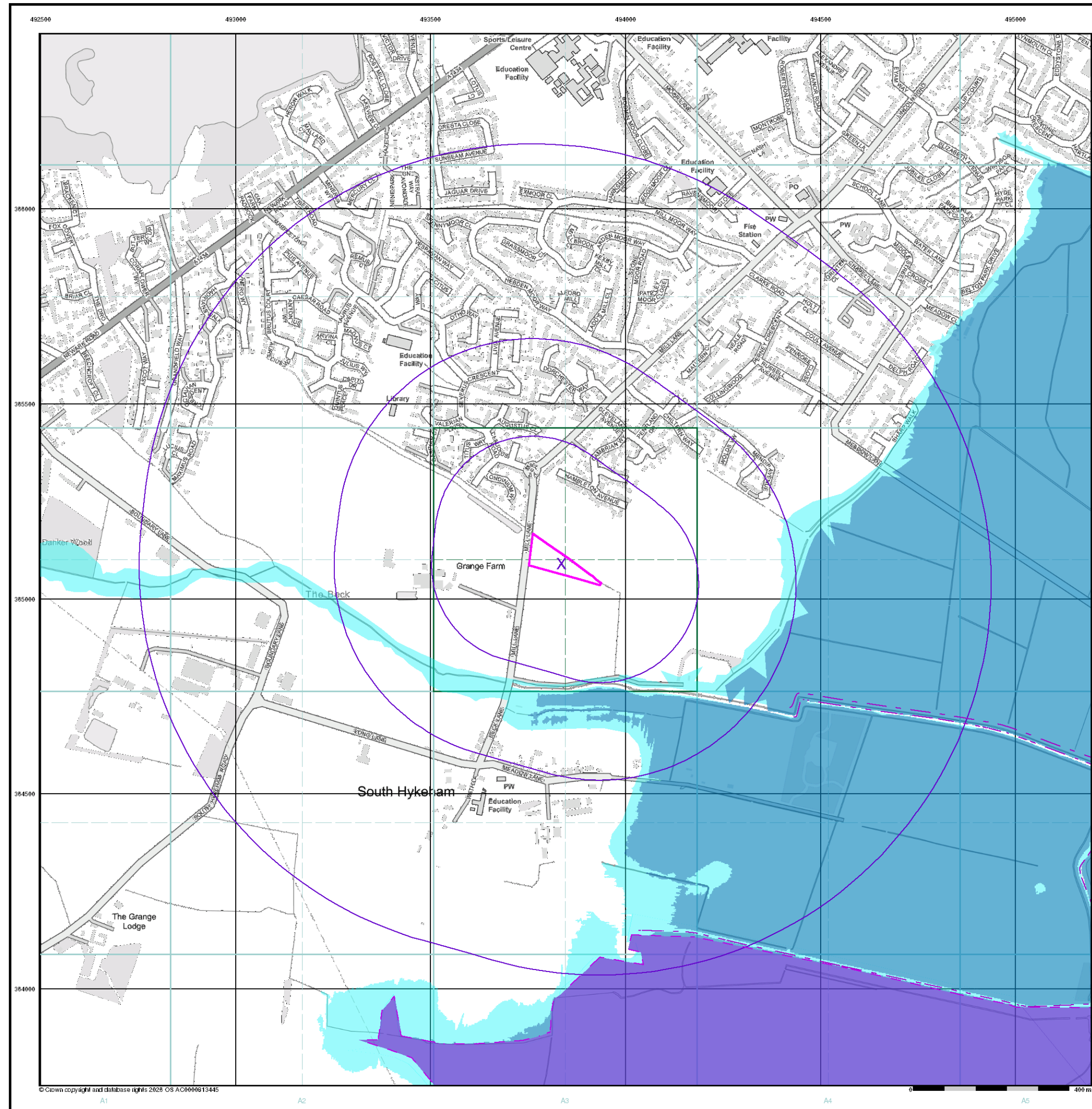


Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB



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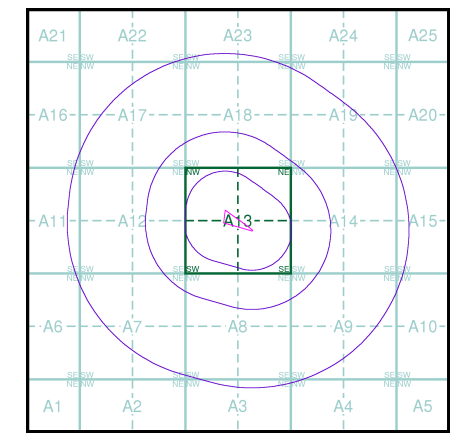
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

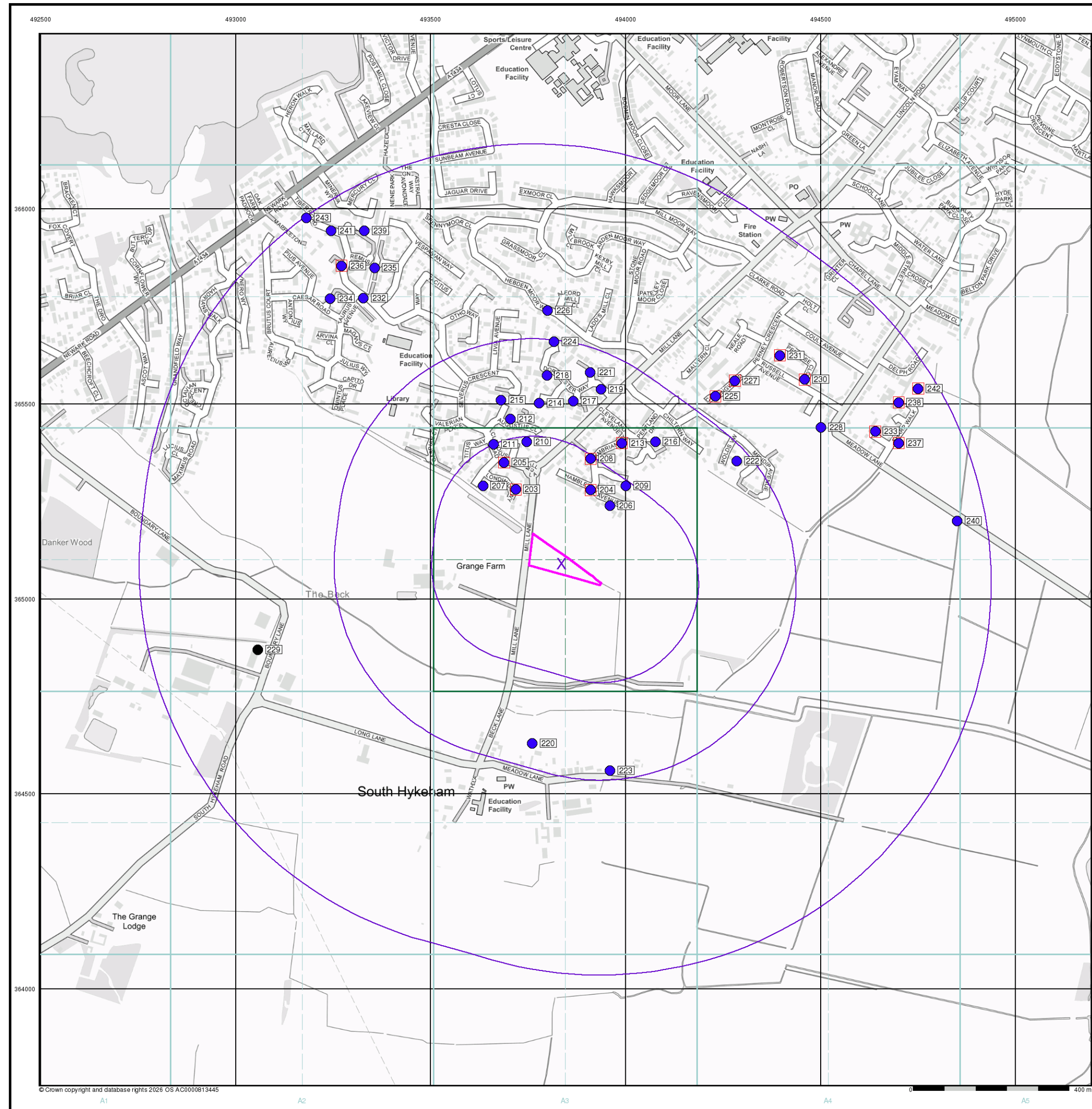


Order Details

Order Number:	397017023_1_1
Customer Ref:	CDS-North Hykeham-26
National Grid Reference:	493840, 365090
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB



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General

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

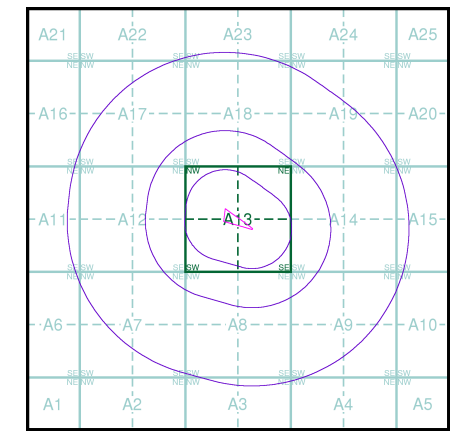
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

General

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

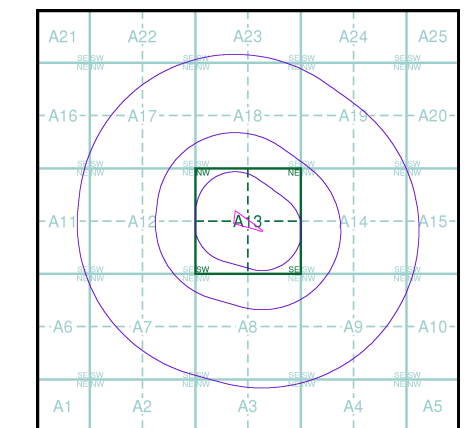
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A

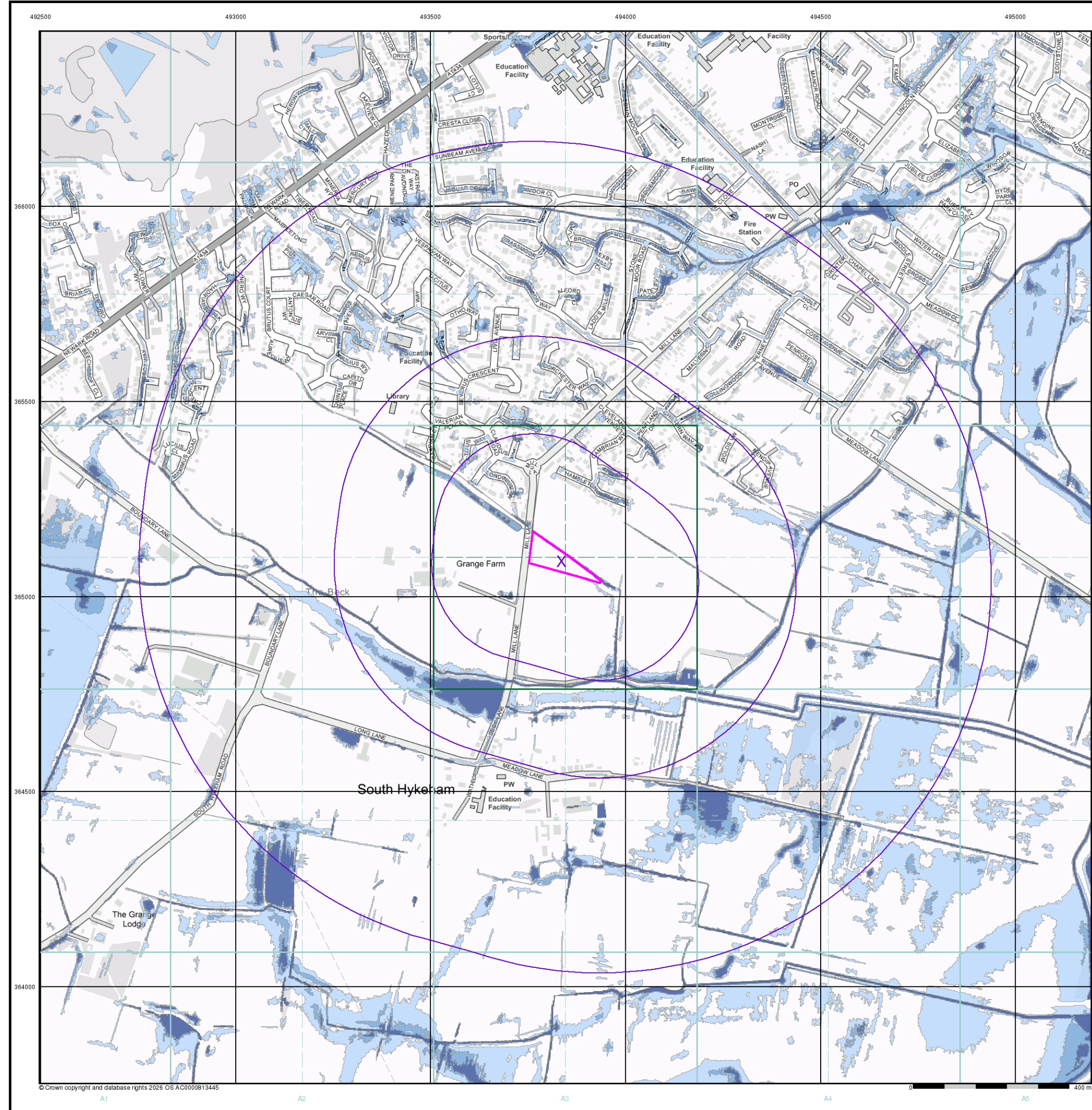


Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB



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General

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

Risk of Flooding from Surface Water

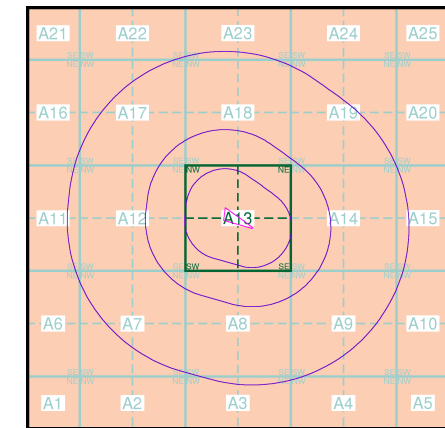
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A

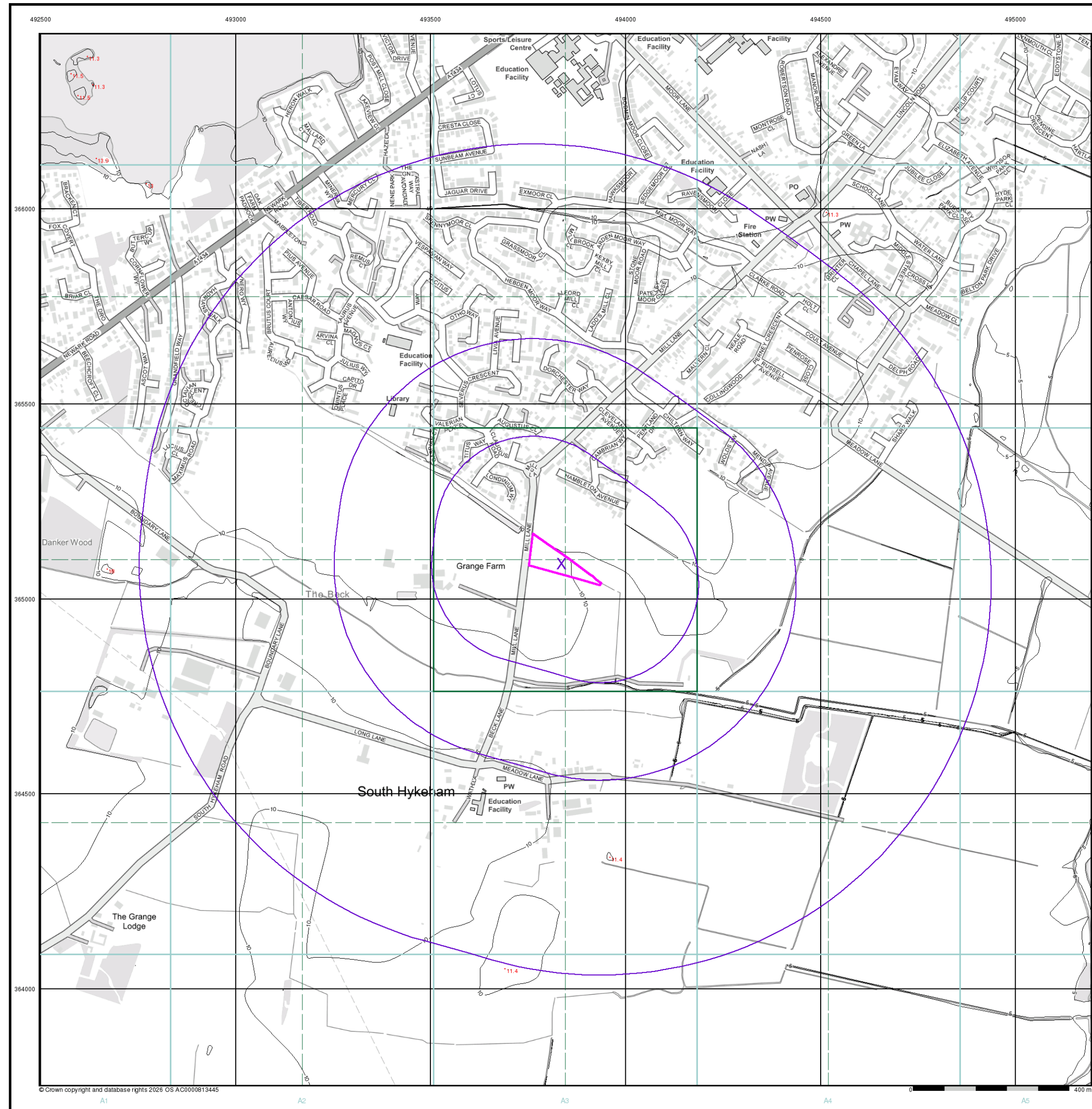


Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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WFD Surface Waters Map

General

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

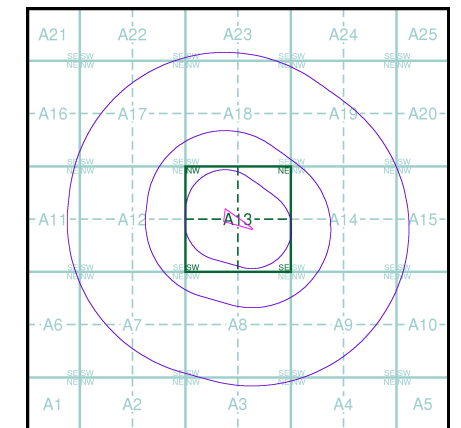
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

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

WFD Surface Waters Map - Slice A



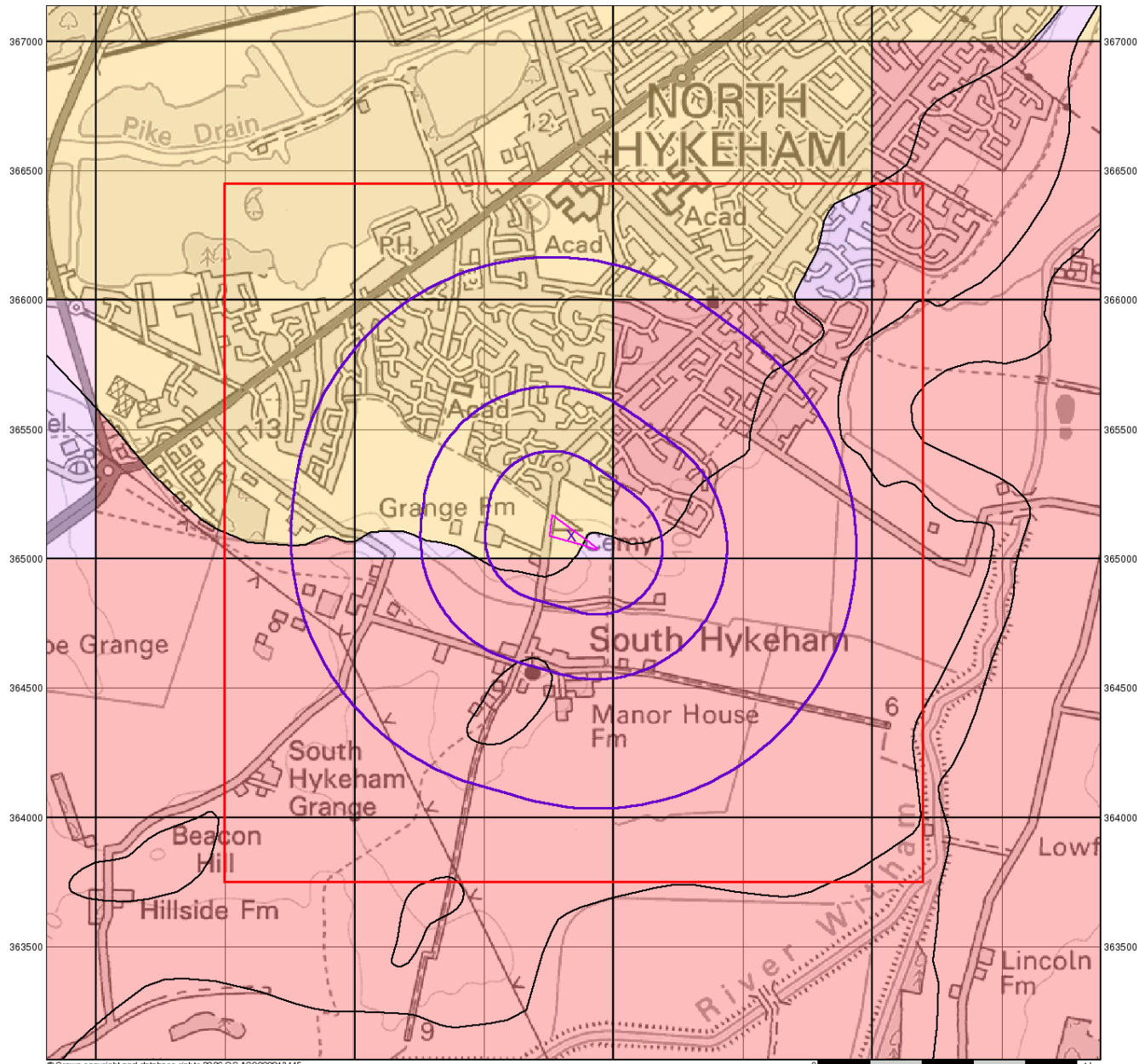
Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

492000 492500 493000 493500 494000 494500 495000 495500



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0 1 km

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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

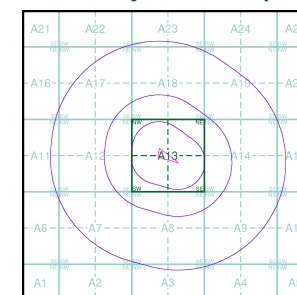
Superficial Aquifers

- 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: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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492000 492500 493000 493500 494000 494500 495000 495500

367000

366500

366000

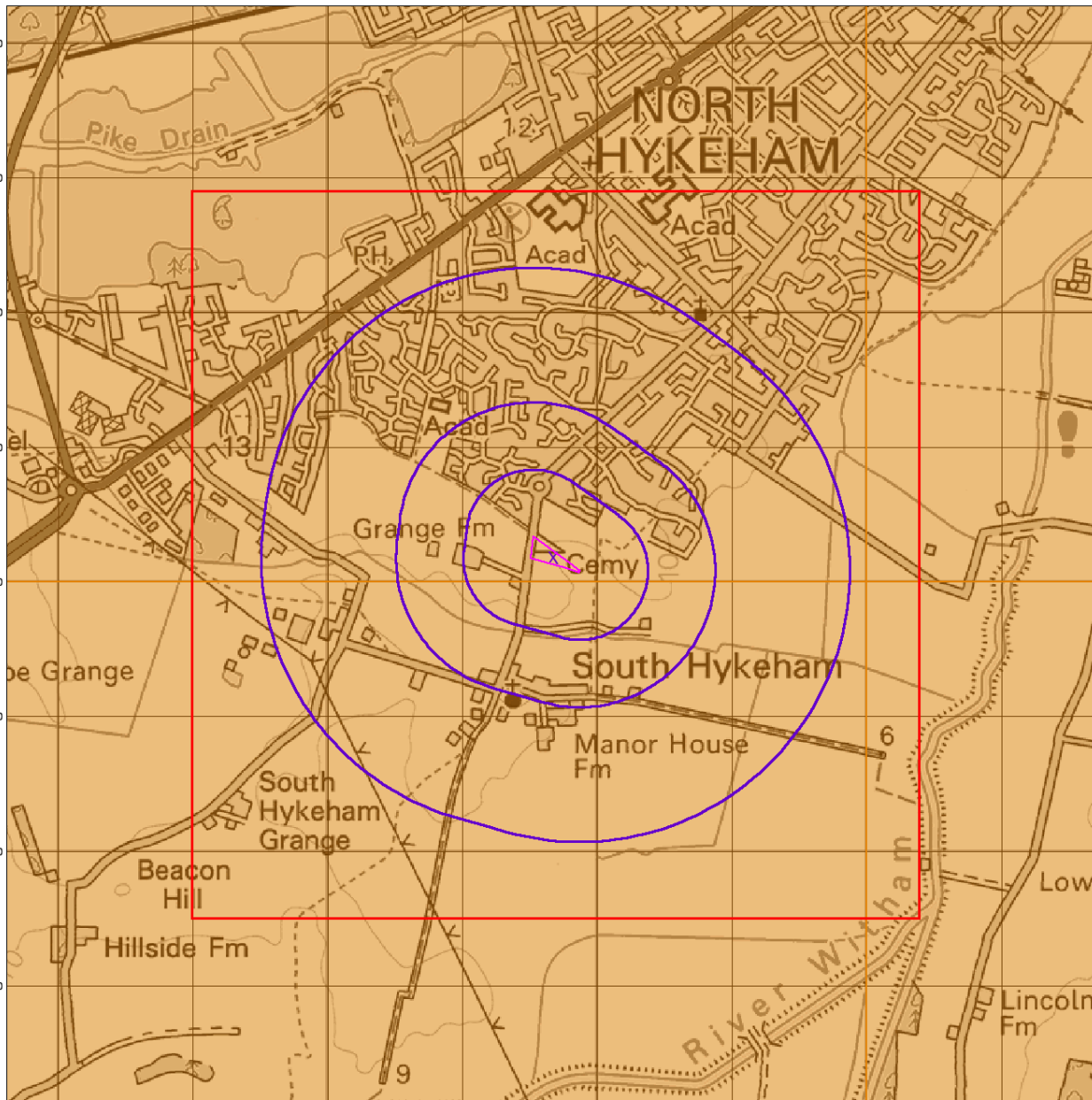
365500

365000

364500

364000

363500



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0 1 km

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Bedrock Aquifer Designation

General

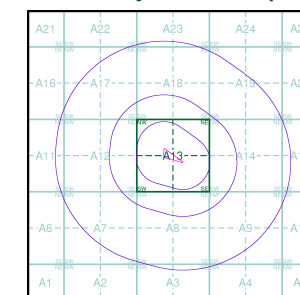
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

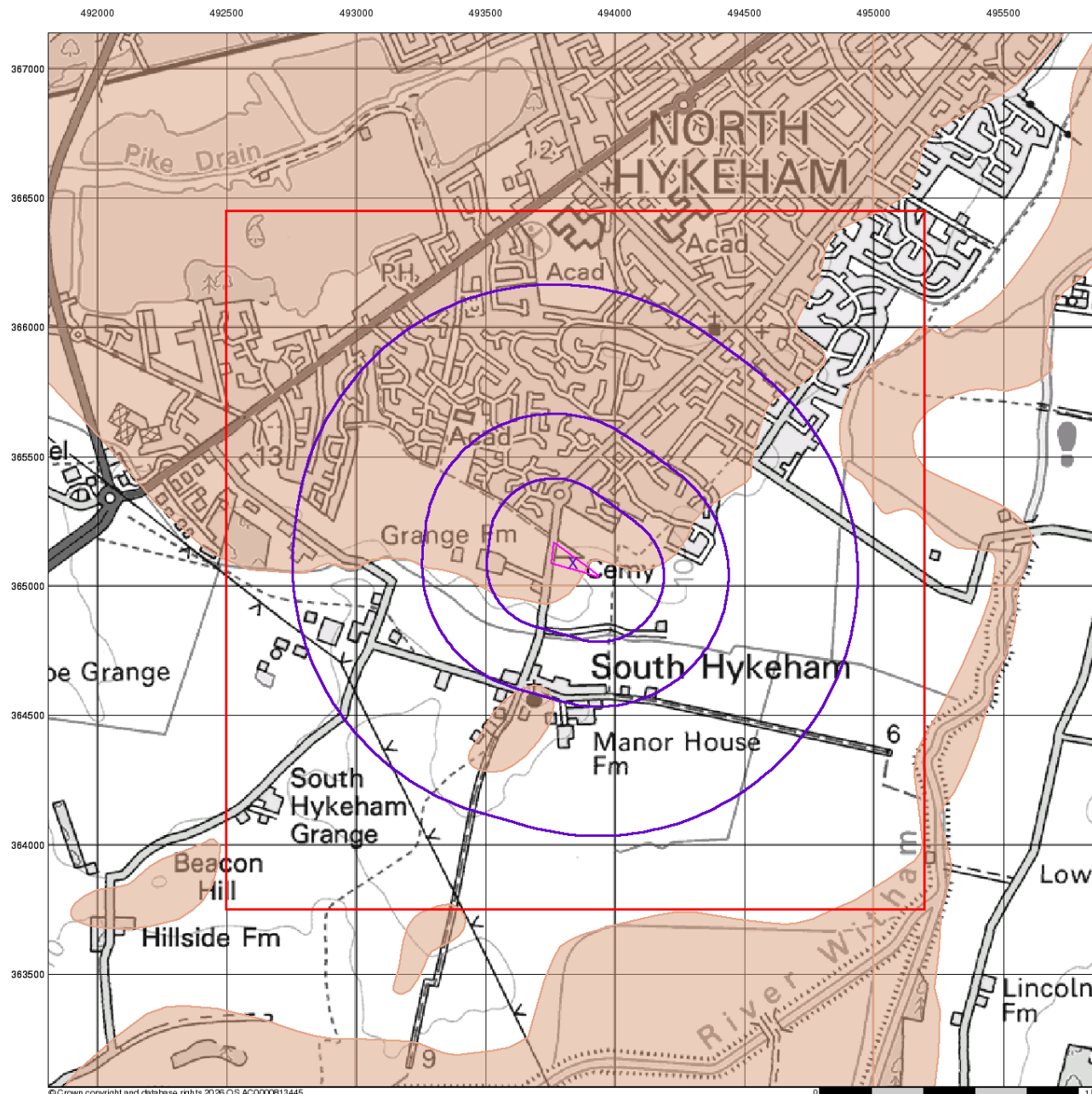
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
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Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

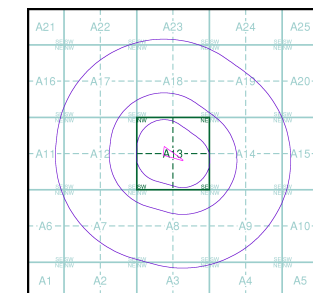
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 397017023_1_1
 Customer Ref: CDS-North Hykeham-26
 National Grid Reference: 493840, 365090
 Slice: A
 Site Area (Ha): 0.85
 Search Buffer (m): 1000

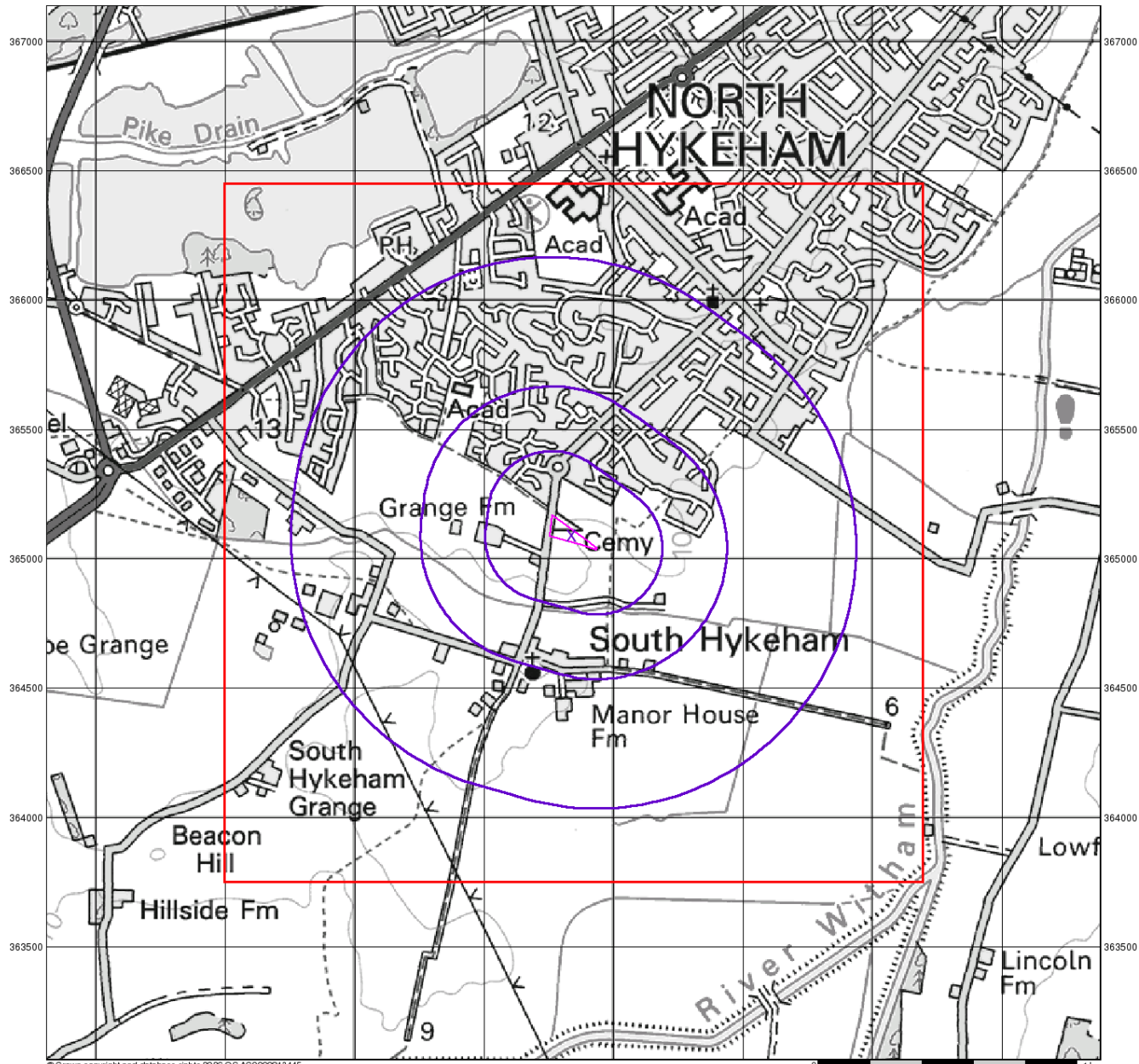
Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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492000 492500 493000 493500 494000 494500 495000 495500



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0 1 km

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Source Protection Zones

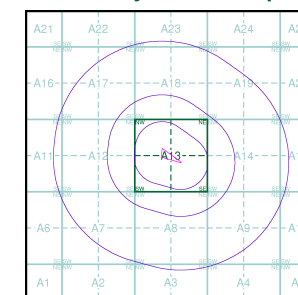
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

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Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
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Search Buffer (m): 1000

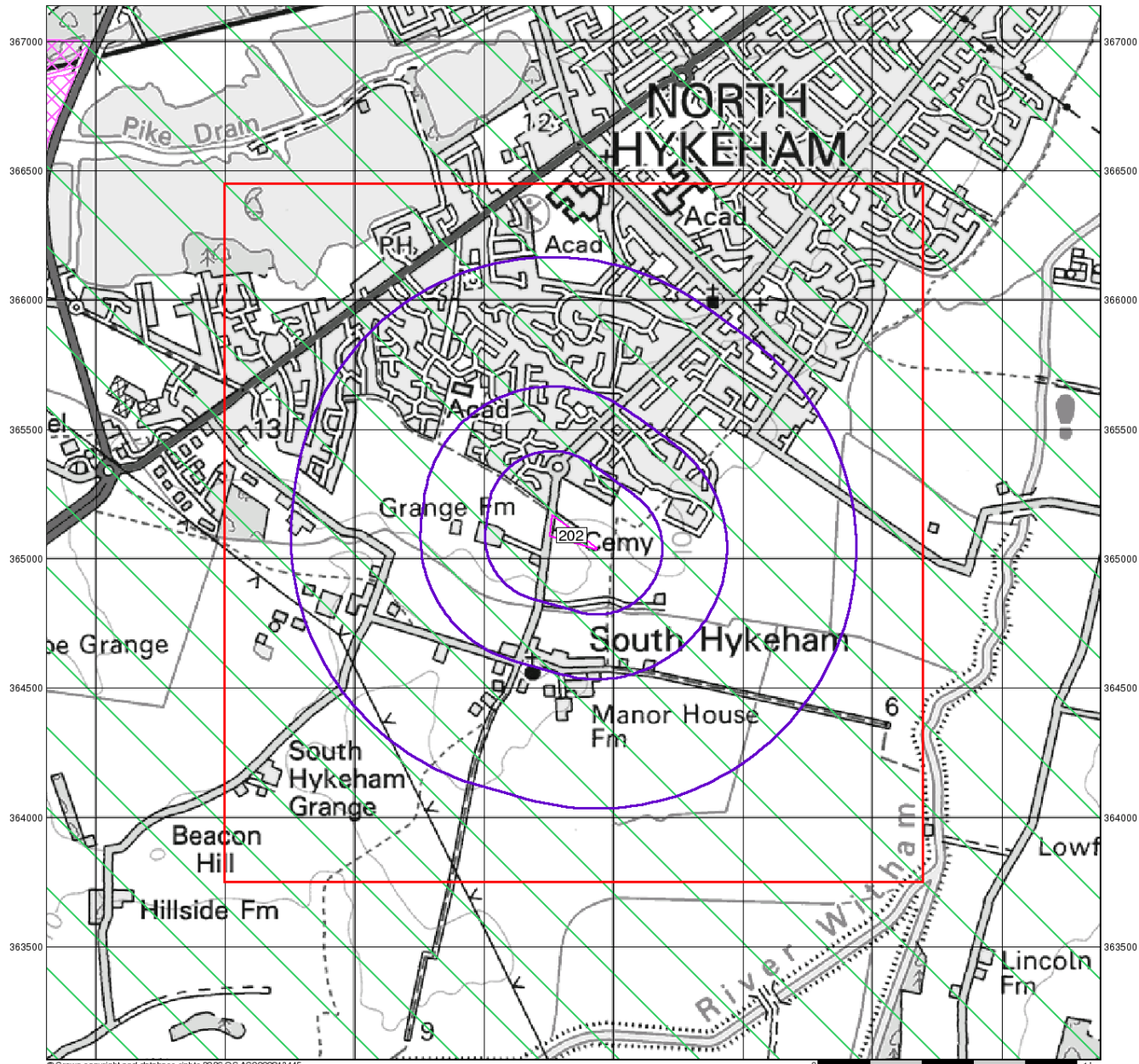
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492000 492500 493000 493500 494000 494500 495000 495500



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0 1 km

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Sensitive Land Uses

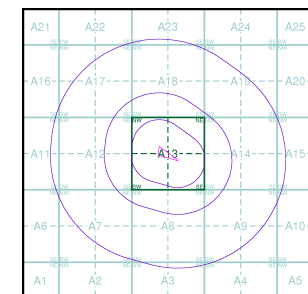
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

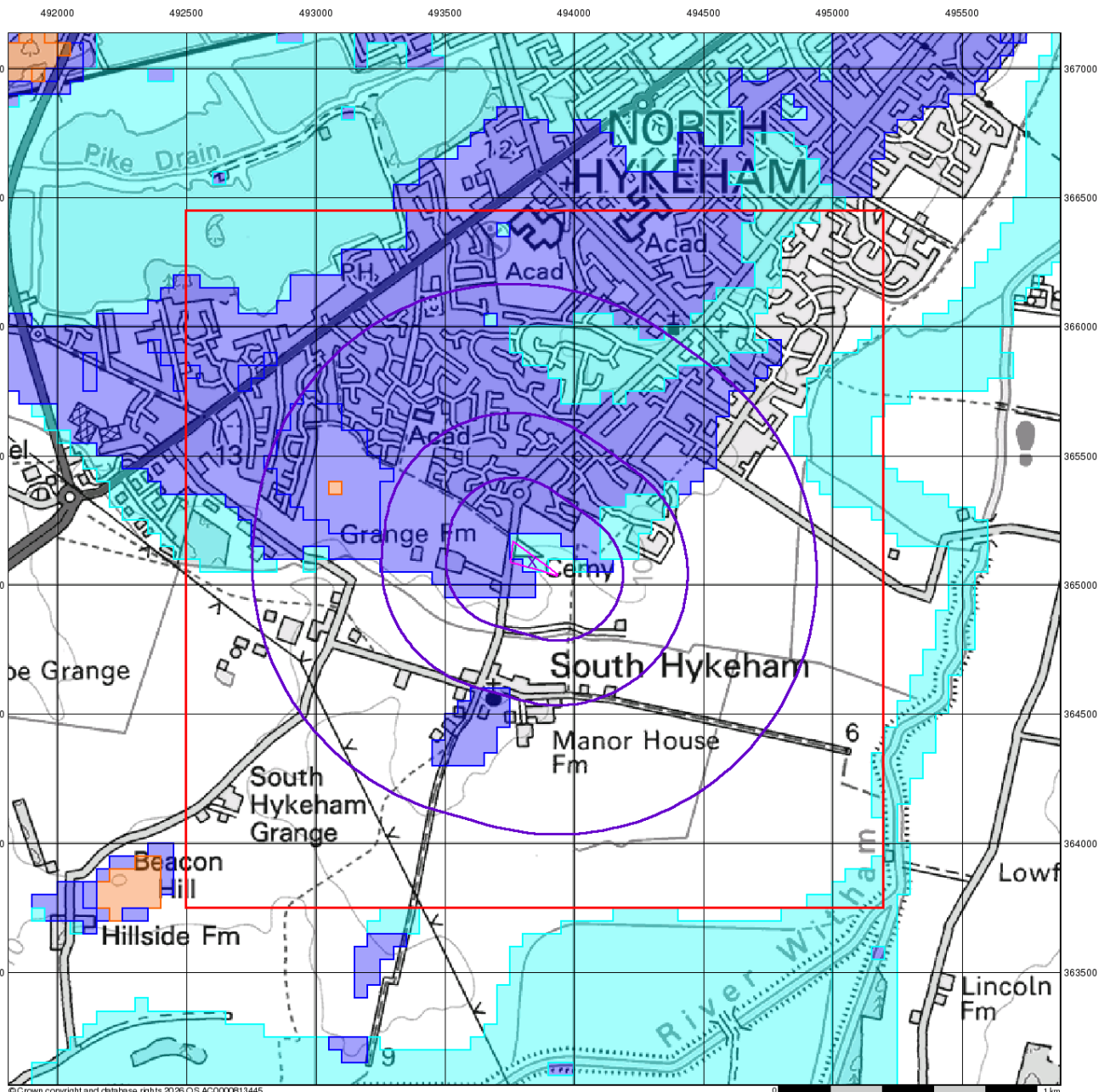
Order Number: 397017023_1_1
 Customer Ref: CDS-North Hykeham-26
 National Grid Reference: 493840, 365090
 Slice: A
 Site Area (Ha): 0.85
 Search Buffer (m): 1000

Site Details

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0 1 km

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BGS Flood GFS Data

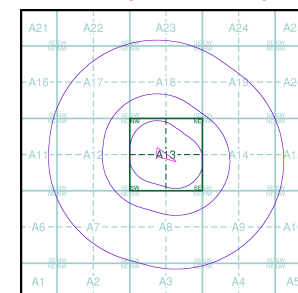
General

- ◆ 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: 397017023_1_1
 Customer Ref: CDS-North Hykeham-26
 National Grid Reference: 493840, 365090
 Slice: A
 Site Area (Ha): 0.85
 Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

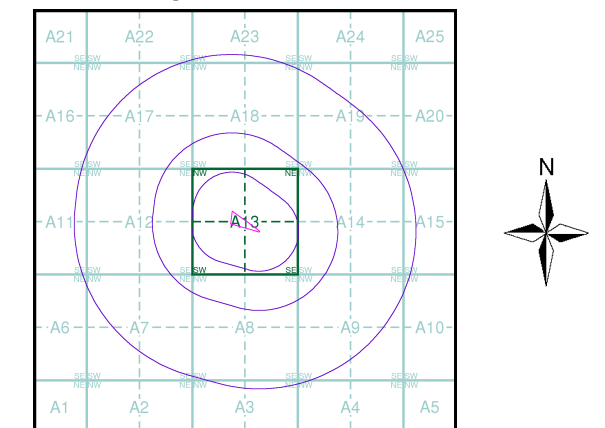
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887	3
Lincolnshire	1:10,560	1906 - 1907	4
Lincolnshire	1:10,560	1932	5
Lincolnshire	1:10,560	1938 - 1948	6
Lincolnshire	1:10,560	1948	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1965 - 1966	9
Ordnance Survey Plan	1:10,000	1974 - 1976	10
Ordnance Survey Plan	1:10,000	1981 - 1989	11
Lincoln	1:10,000	1989	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2025	15

Historical Map - Slice A



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

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

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

Power Station, drawn to scale Hydroelectric Power Station

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

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

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

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

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

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

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

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

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

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

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

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

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

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

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

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

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

Well Water Reservoir or Rain Water Pit Spring Isobath with value

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

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

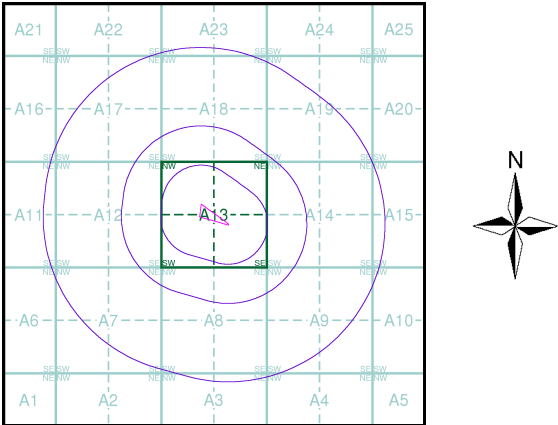
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887	3
Lincolnshire	1:10,560	1906 - 1907	4
Lincolnshire	1:10,560	1932	5
Lincolnshire	1:10,560	1938 - 1948	6
Lincolnshire	1:10,560	1948	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1965 - 1966	9
Ordnance Survey Plan	1:10,000	1974 - 1976	10
Ordnance Survey Plan	1:10,000	1981 - 1989	11
Lincoln	1:10,000	1989	12
10K Raster Mapping	1:10,000	2000	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2025	15

Russian Map - Slice A



Order Details

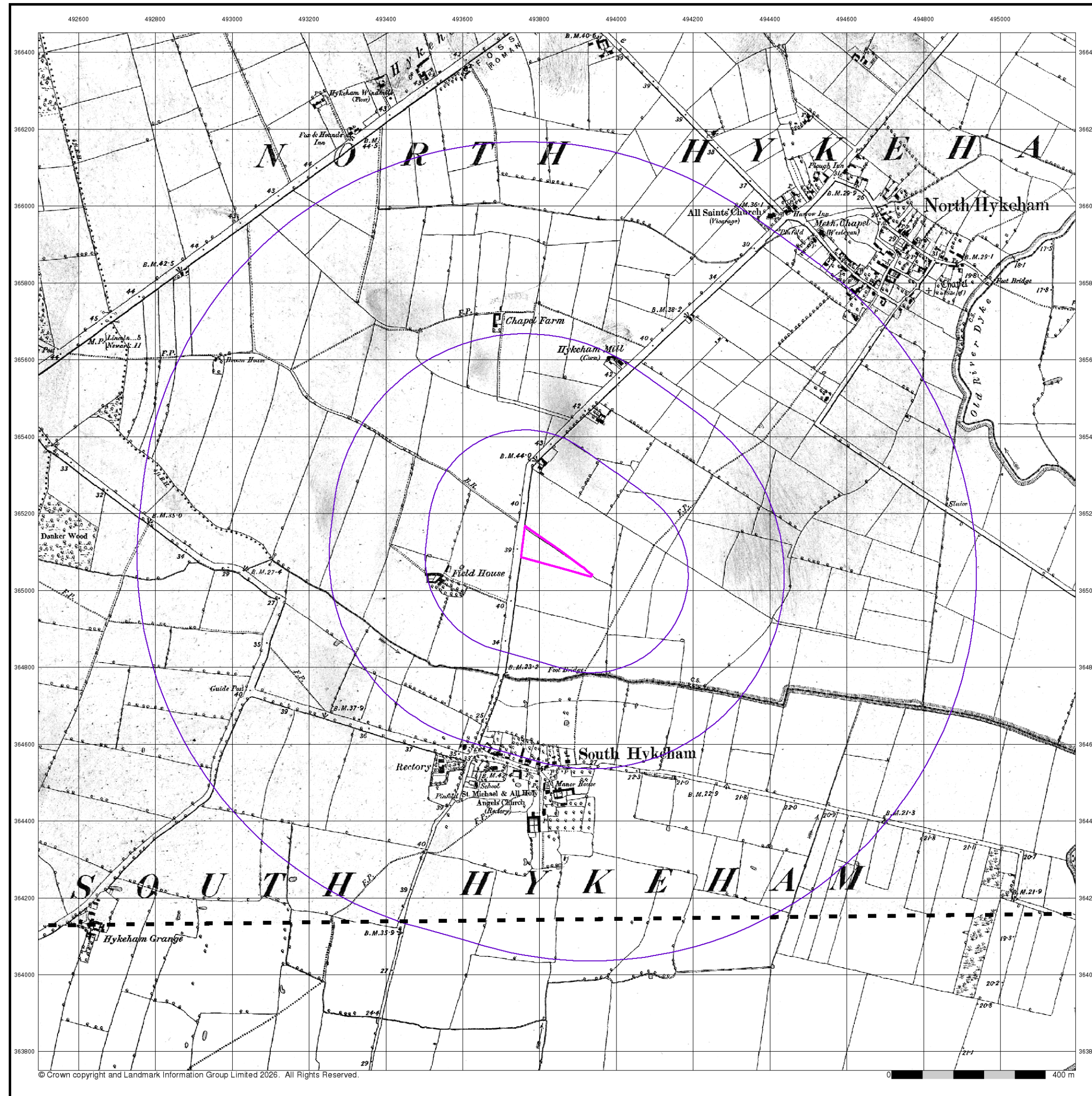
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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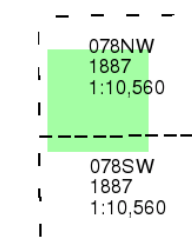
Lincolnshire

Published 1887

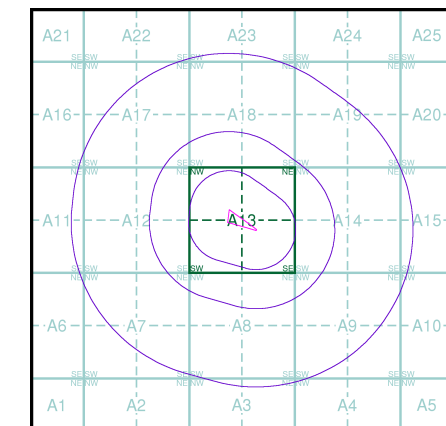
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

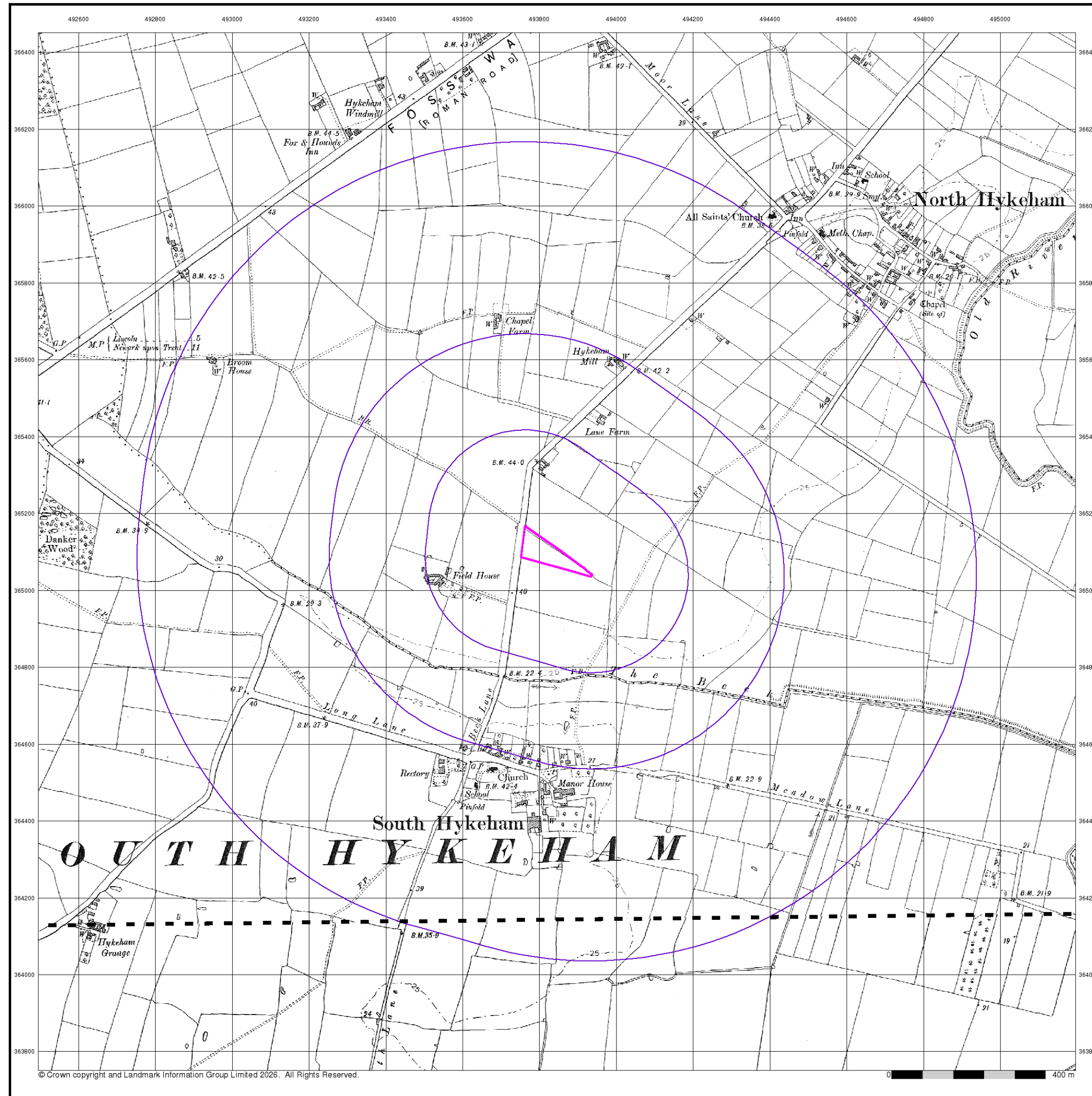
Order Number: 397017023_1_1
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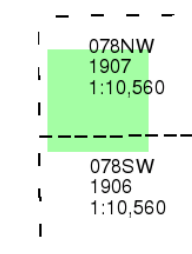
Lincolnshire

Published 1906 - 1907

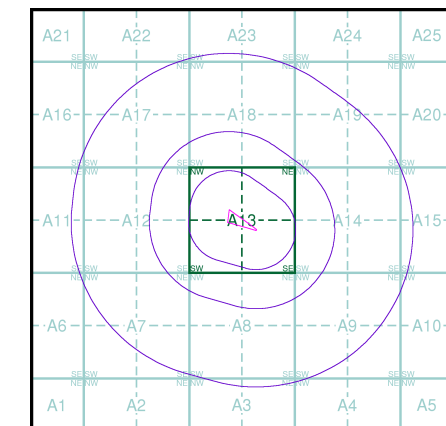
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

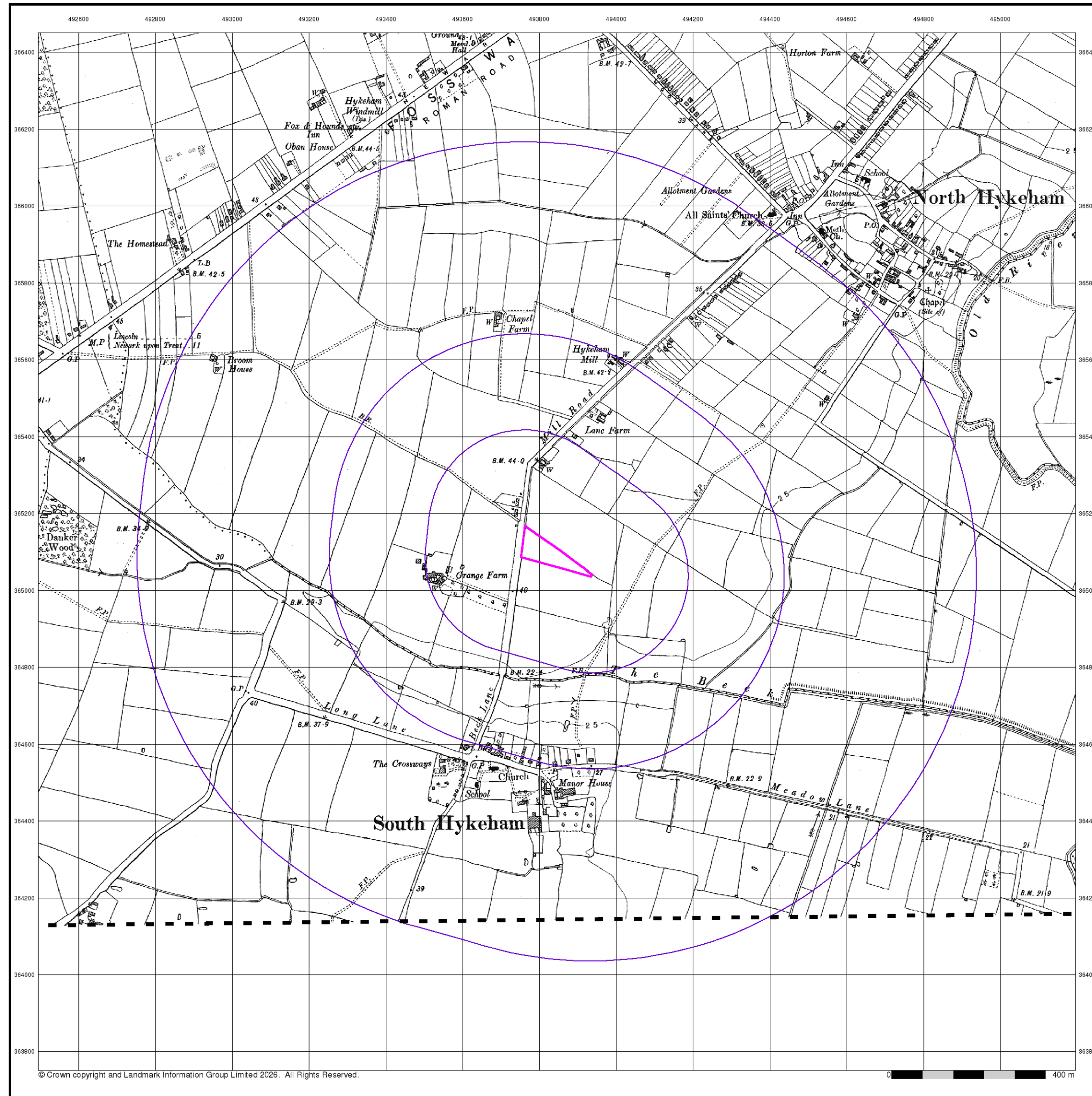
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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0 400 m

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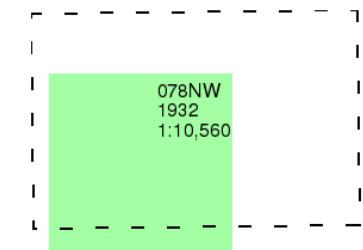
Lincolnshire

Published 1932

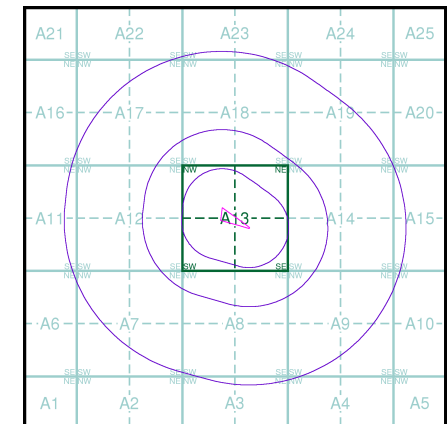
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

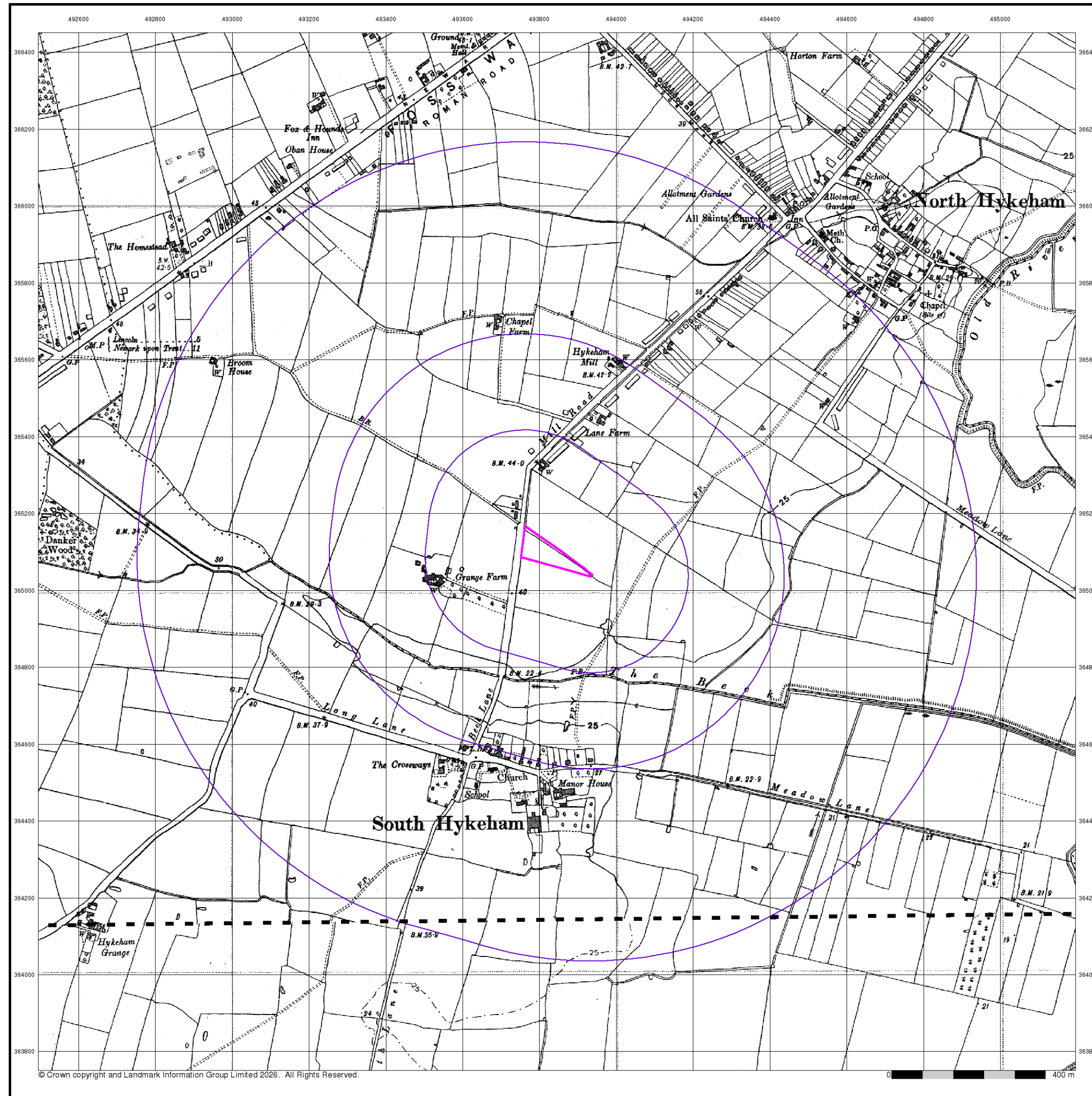
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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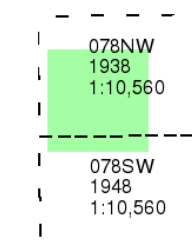
Lincolnshire

Published 1938 - 1948

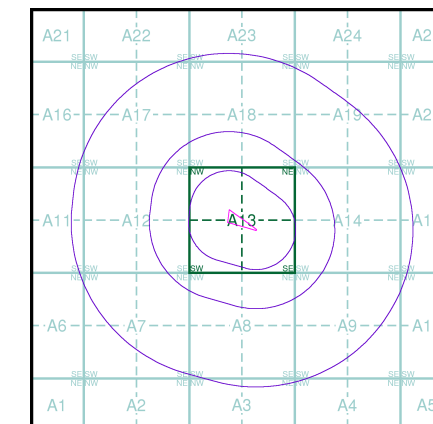
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

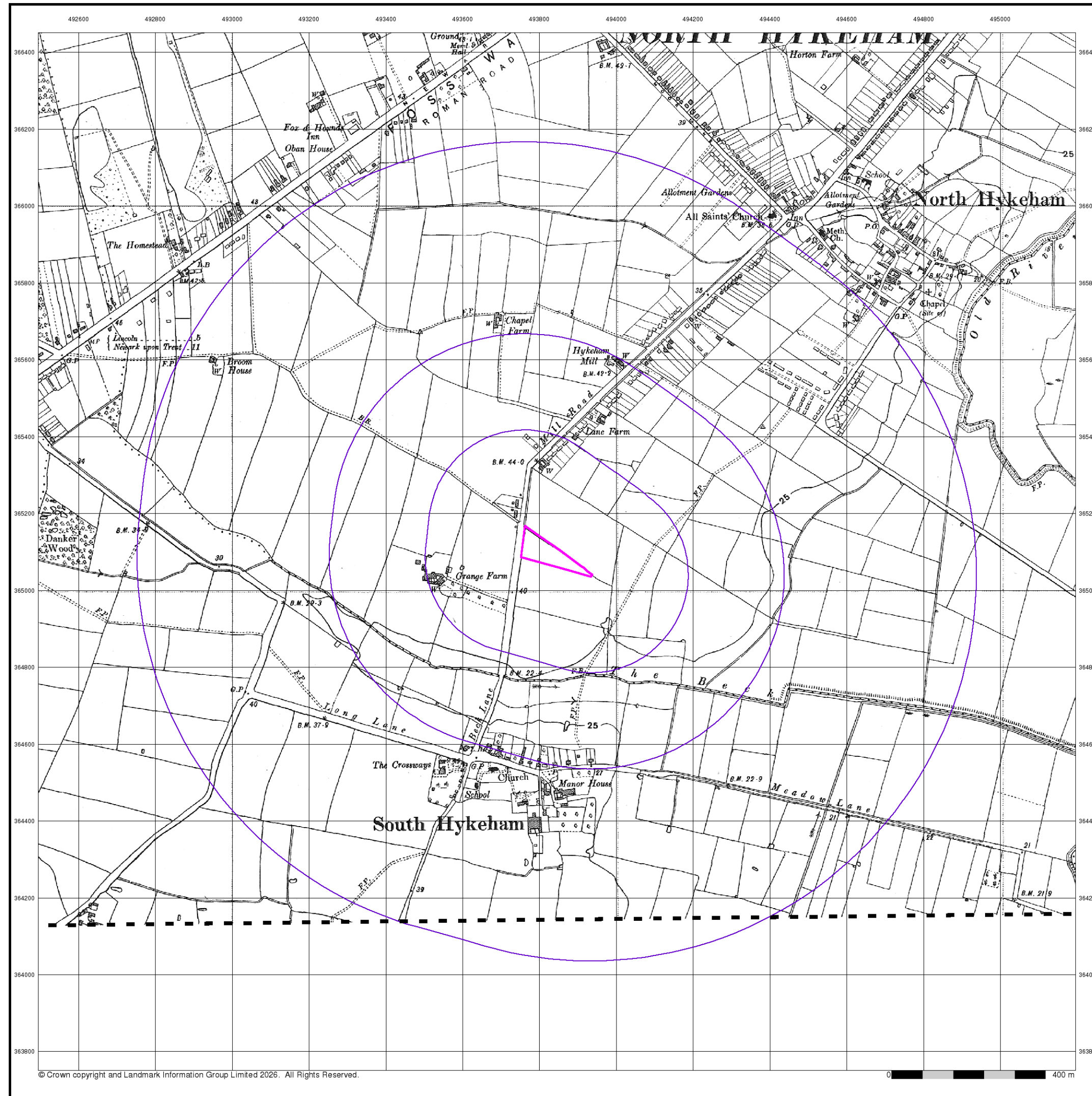
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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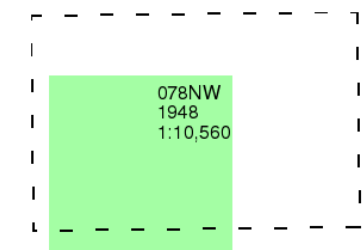
Lincolnshire

Published 1948

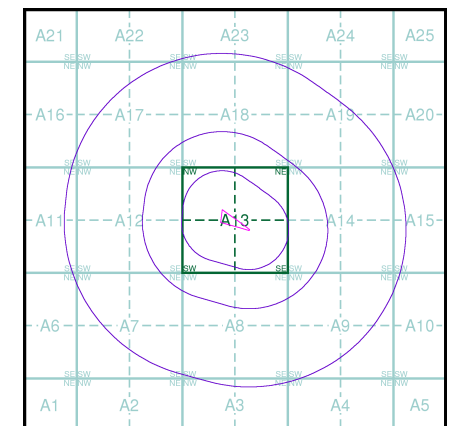
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

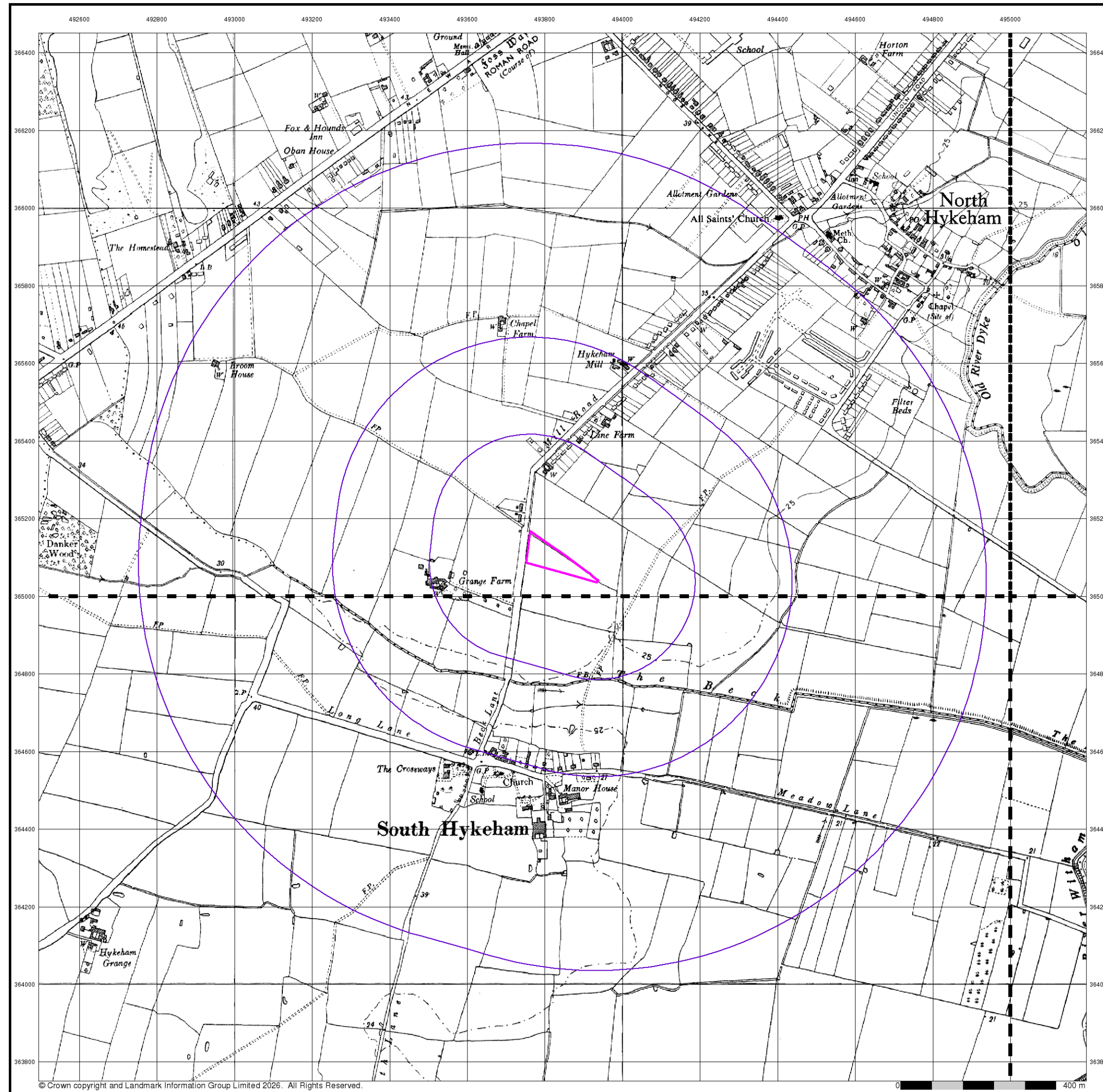


Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1956

Source map scale - 1:10,000

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Map Name(s) and Date(s)

SK96NW	SK96NE
1956	1956
1:10,560	1:10,560
SK96SW	SK96SE
1956	1956
1:10,560	1:10,560

Historical Map - Slice A

Order Details

Order Number:	397017023_1_1
Customer Ref:	CDS-North Hykeham-26
National Grid Reference:	493840, 365090
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	1000

Site Details

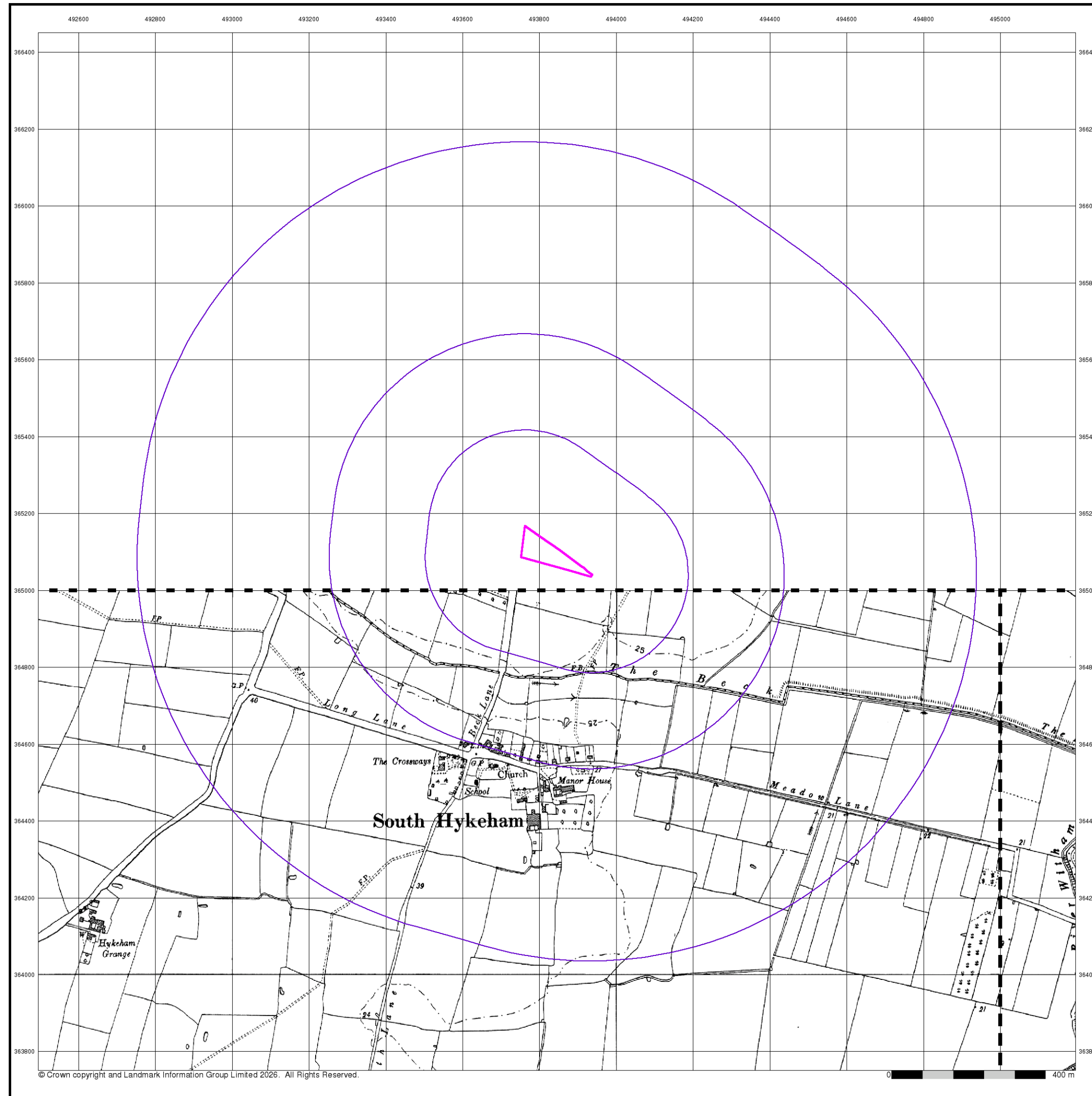
Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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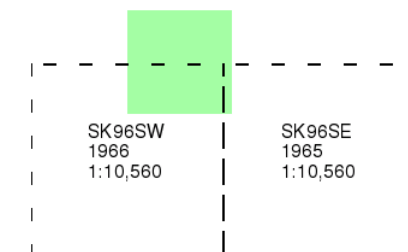
Ordnance Survey Plan

Published 1965 - 1966

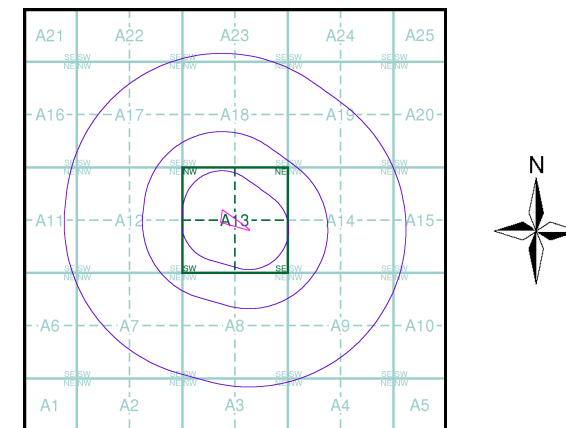
Source map scale - 1:10,000

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:

397017023_1_1

Customer Ref:

CDS-North Hykeham-26

National Grid Reference:

493840, 365090

Slice:

A

Site Area (Ha):

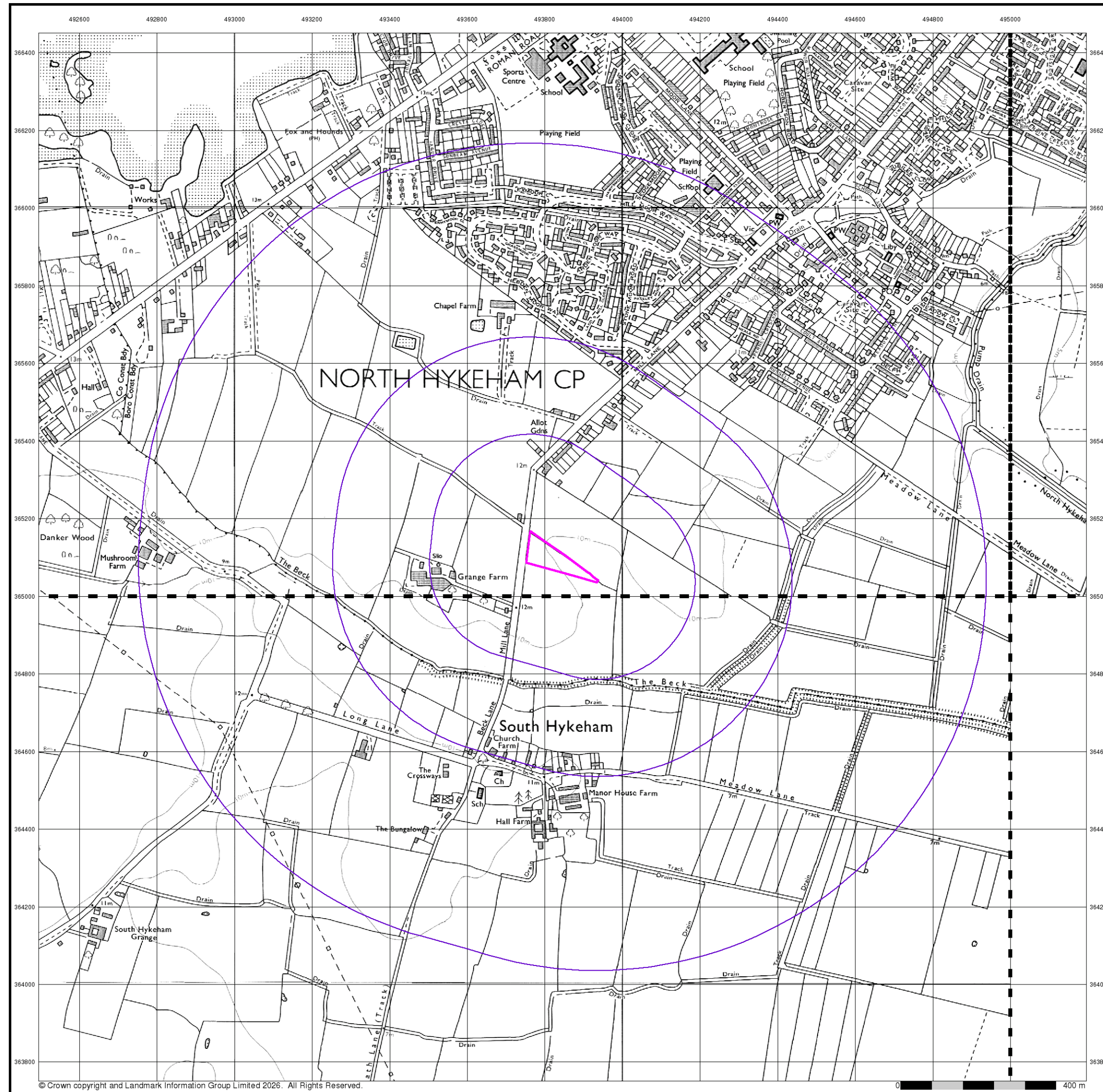
0.85

Search Buffer (m):

1000

Site Details

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Ordnance Survey Plan

Published 1981 - 1989

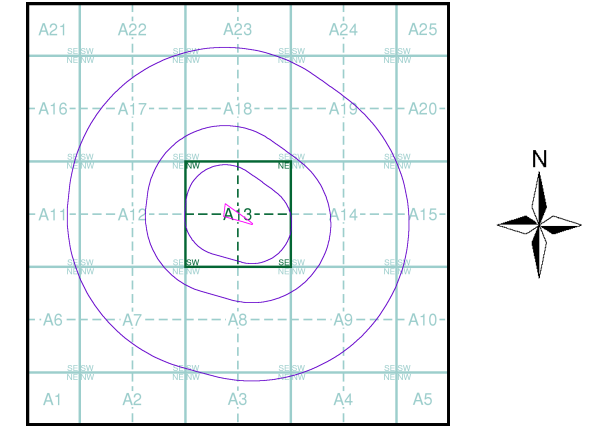
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SK96NW	SK96NE
1989	1985
1:10,000	1:10,000
SK96SW	
1981	
1:10,000	

Historical Map - Slice A



Order Details

Order Number: 397017023_1_1

Customer Ref: CDS-North Hykeham-26

National Grid Reference: 493840, 365090

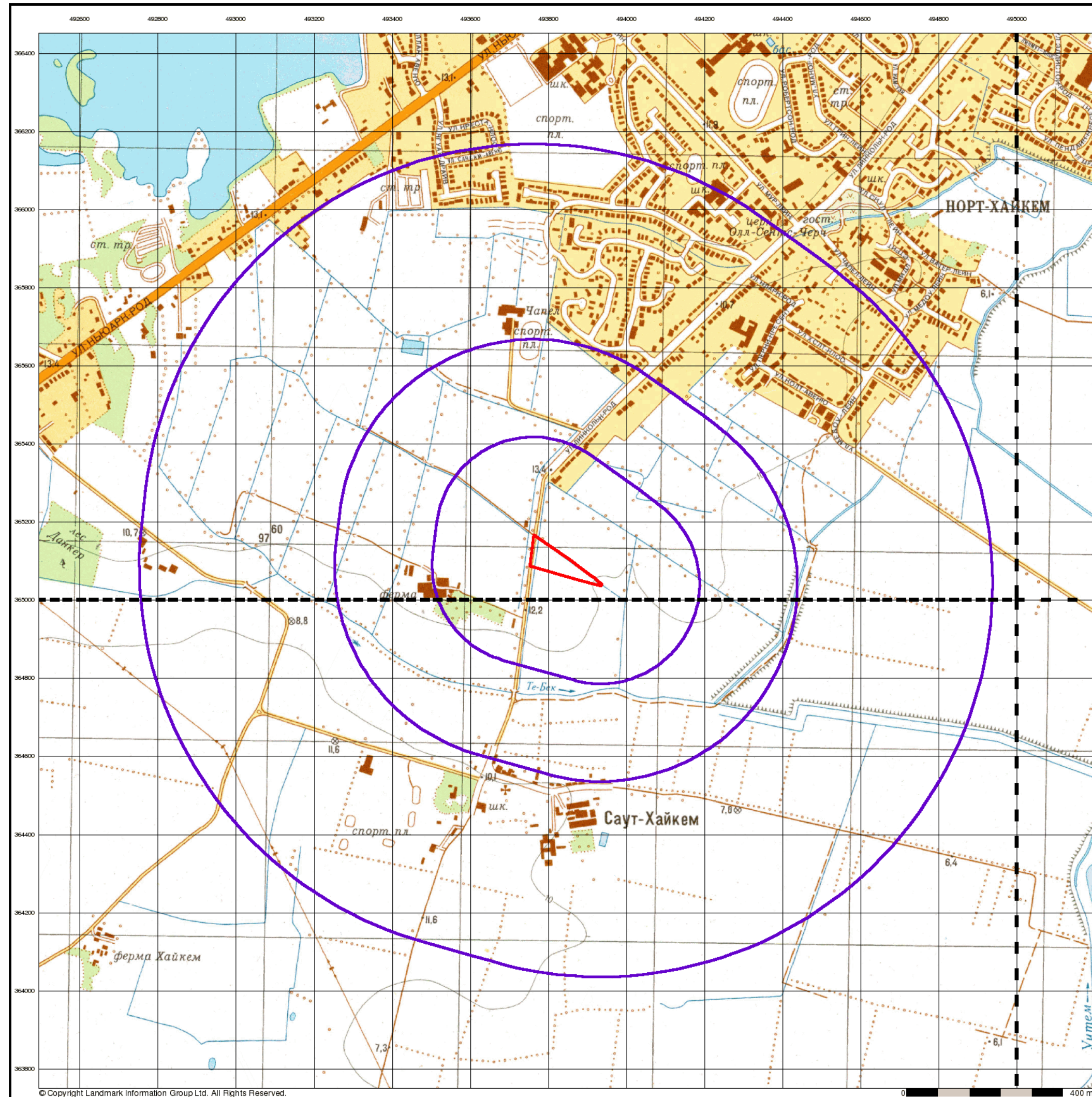
Slice: A

Site Area (Ha): 0.85

Search Buffer (m): 1000

Site Details

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Lincoln

Published 1989

Source map scale - 1:10,000

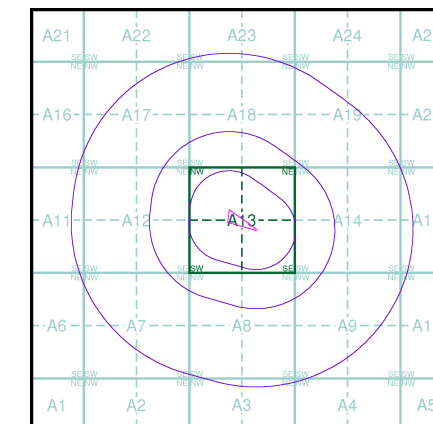
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed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

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

Map Name(s) and Date(s)

SK96NW 1989 1:10,000	SK96NE 1989 1:10,000
SK96SW 1989 1:10,000	SK96SE 1989 1:10,000

Russian Map - Slice A



Order Details

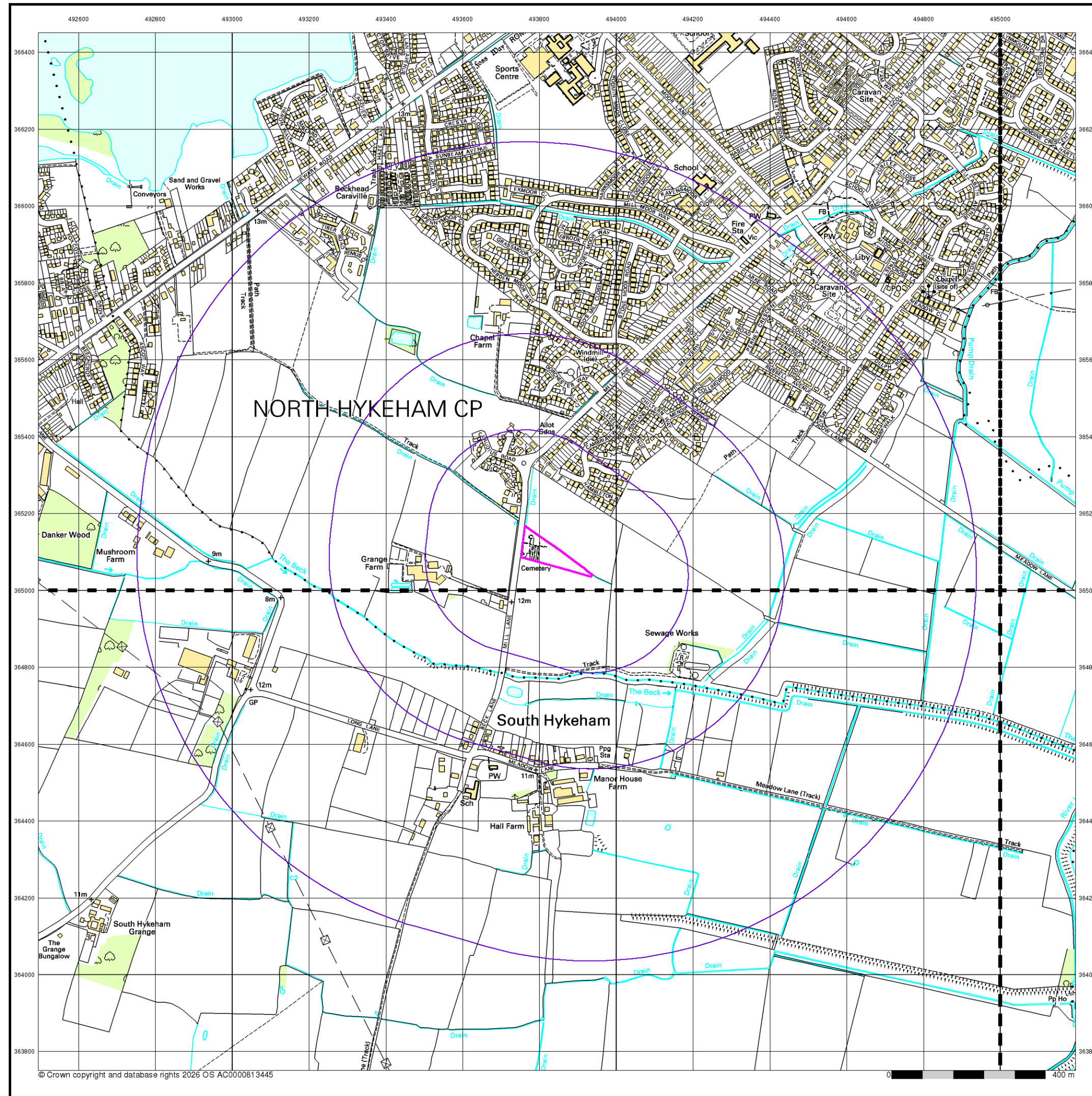
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2006

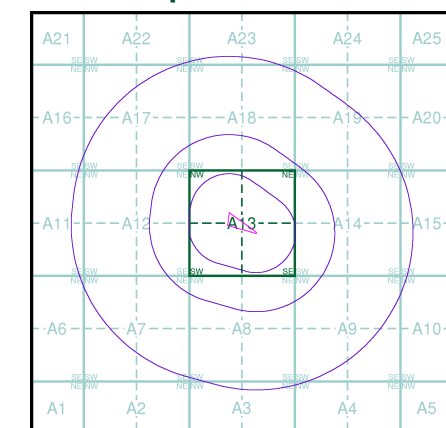
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SK96NW	SK96NE
2006	2006
1:10,000	1:10,000
SK96SW	SK96SE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 1000

Site Details

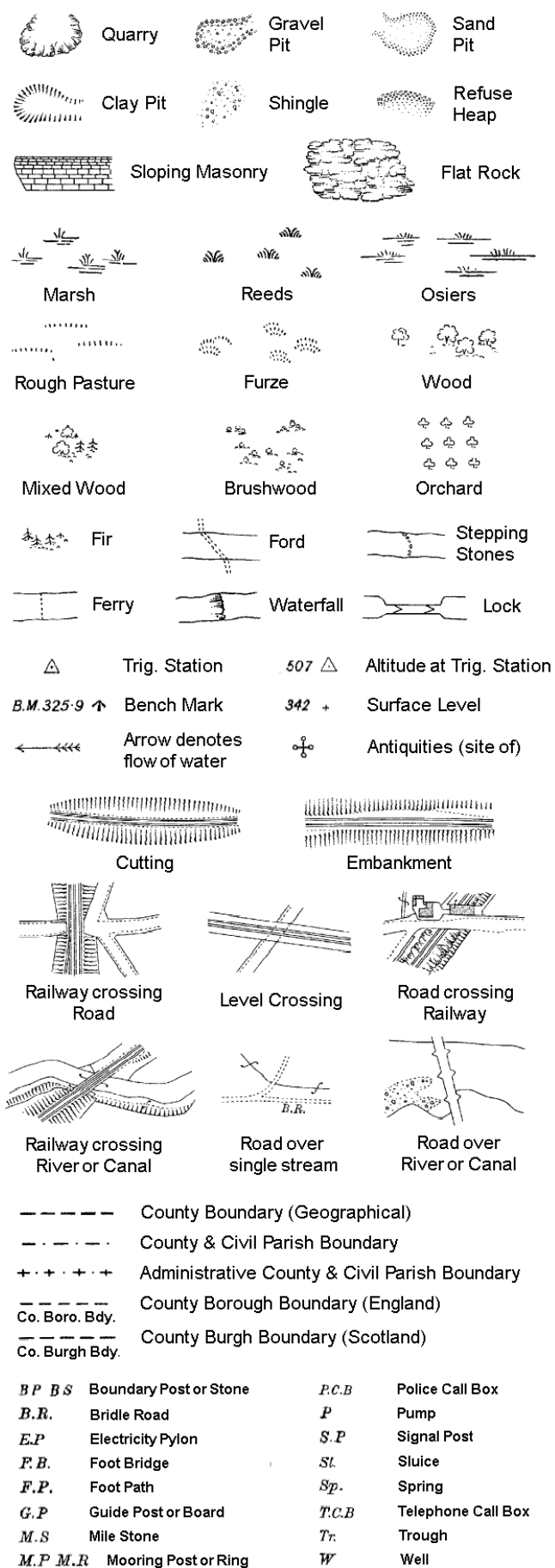
Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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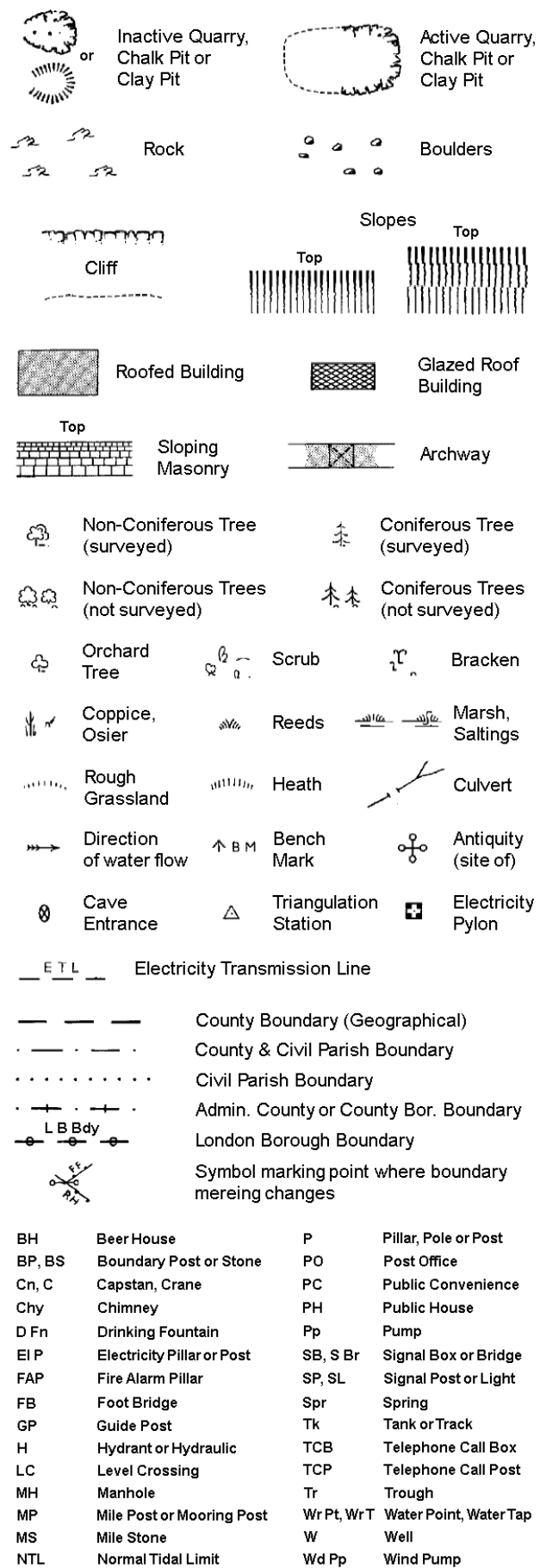
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Historical Mapping Legends

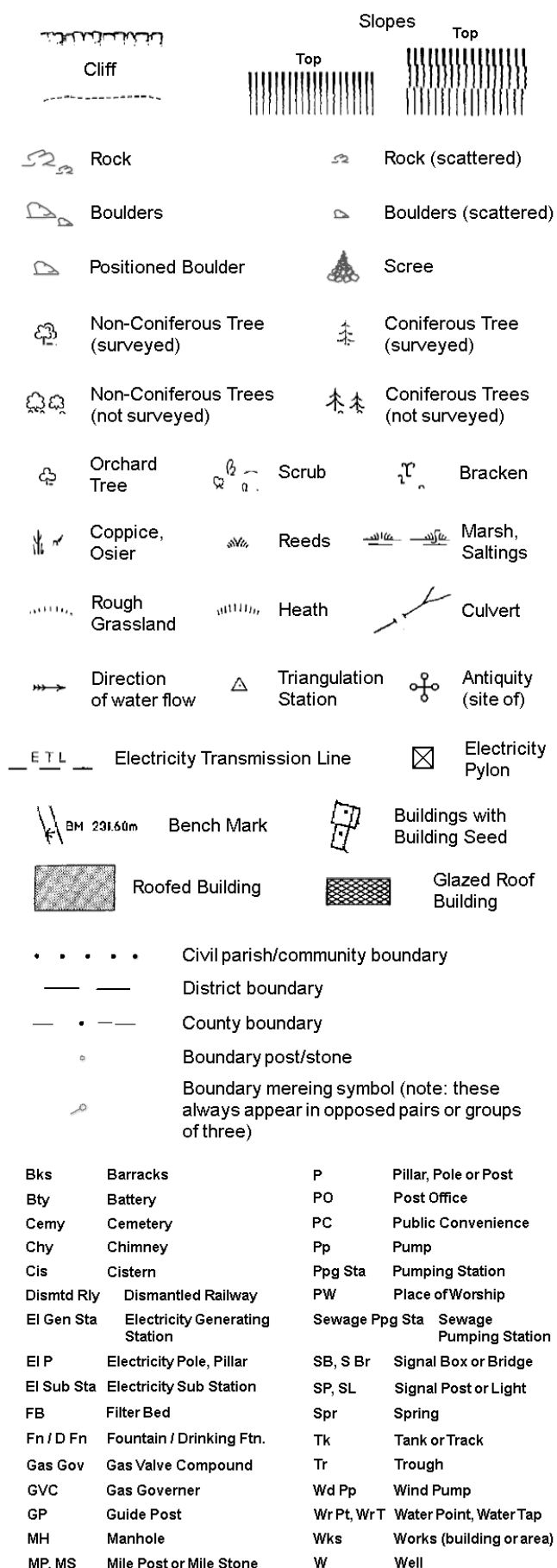
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordinance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information



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



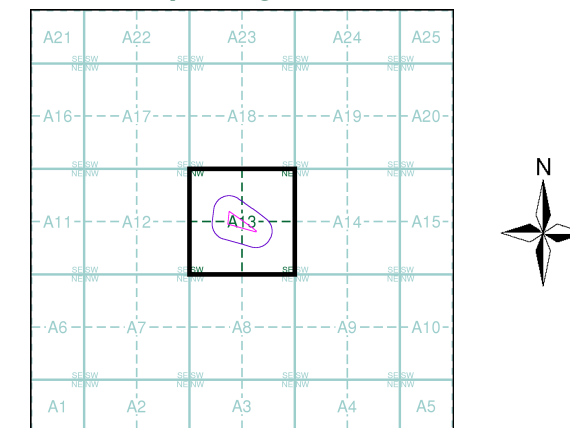
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1887	2
Lincolnshire	1:2,500	1905	3
Lincolnshire	1:2,500	1932	4
Ordnance Survey Plan	1:2,500	1971 - 1976	5
Large-Scale National Grid Data	1:1,250	1993	6
Large-Scale National Grid Data	1:2,500	1994	7
Large-Scale National Grid Data	1:2,500	1996	8
Historical Aerial Photography	1:2,500	1999	9

Historical Map - Segment A13



Order Details

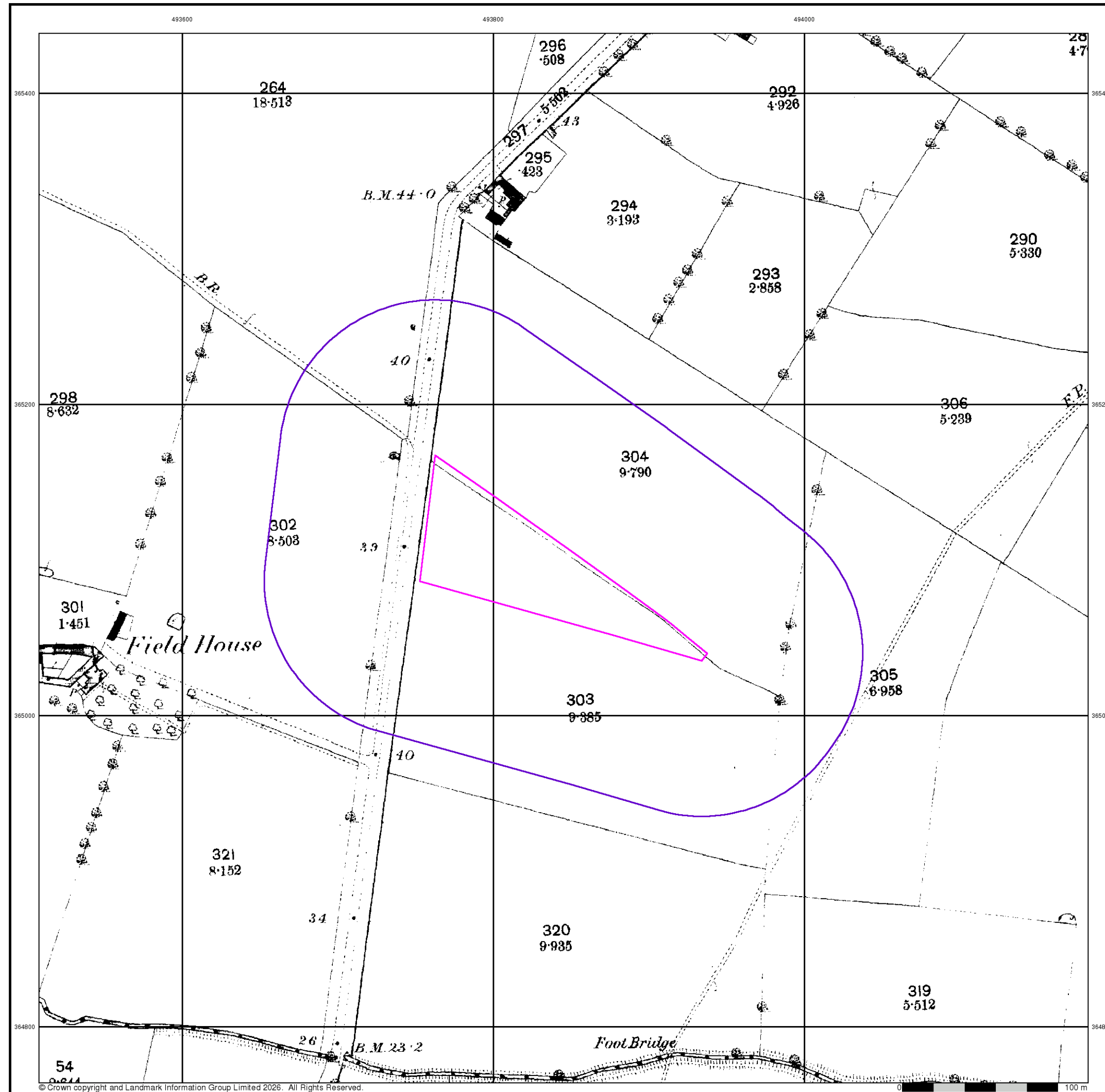
Order Number:	397017023_1_1
Customer Ref:	CDS-North Hykeham-26
National Grid Reference:	493840, 365090
Slice:	A
Site Area (Ha):	0.85
Search Buffer (m):	100

Site Details

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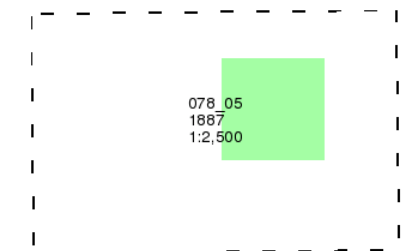
Lincolnshire

Published 1887

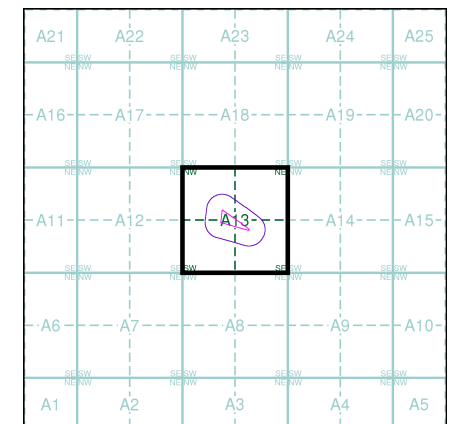
Source map scale - 1:2,500

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

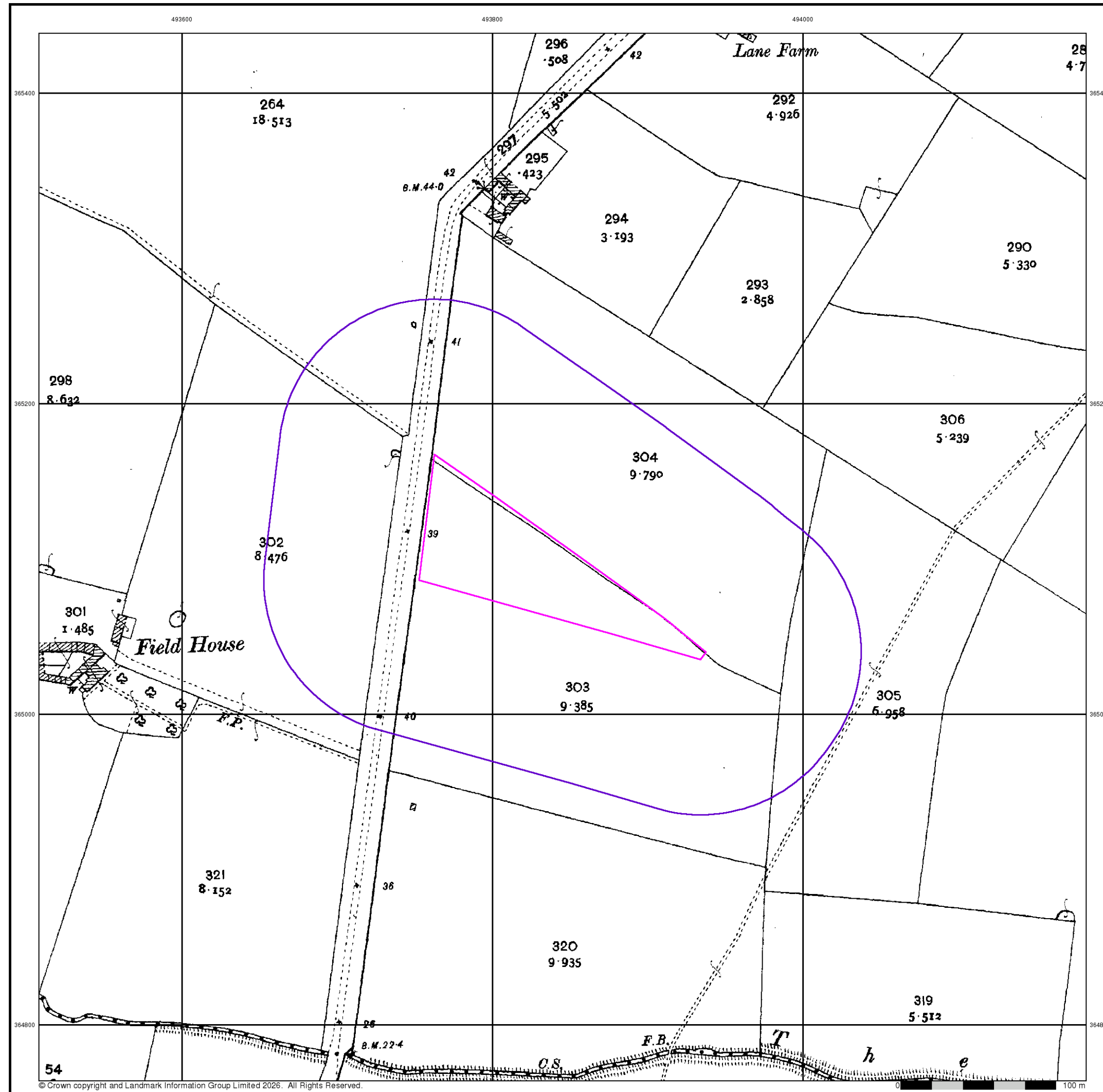
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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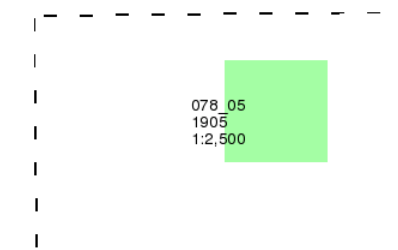
Lincolnshire

Published 1905

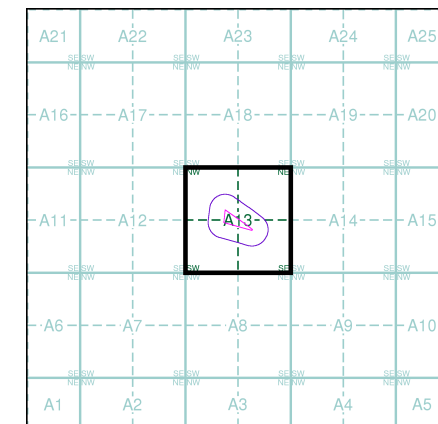
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

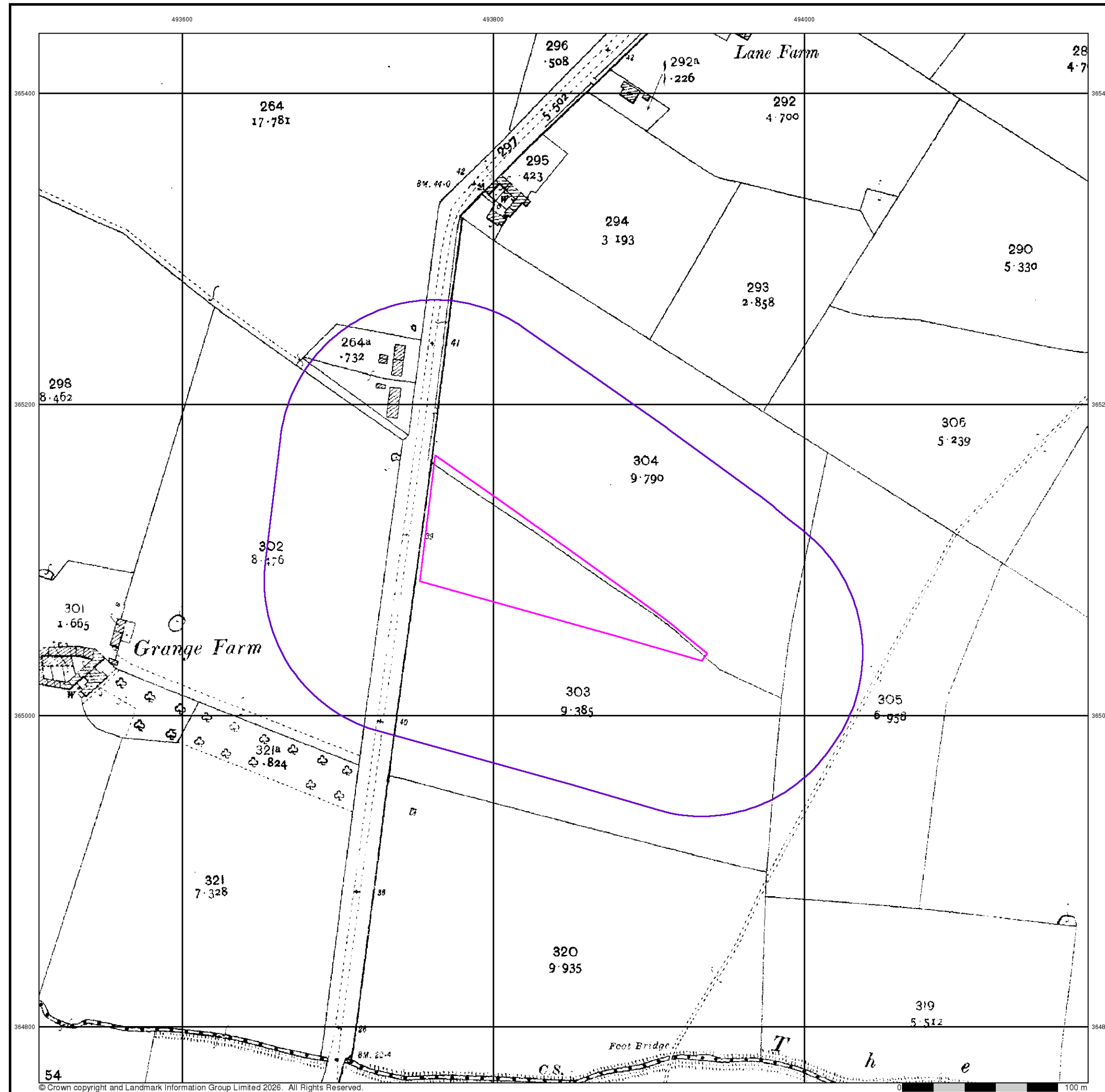
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

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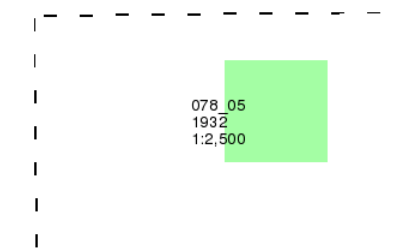
Lincolnshire

Published 1932

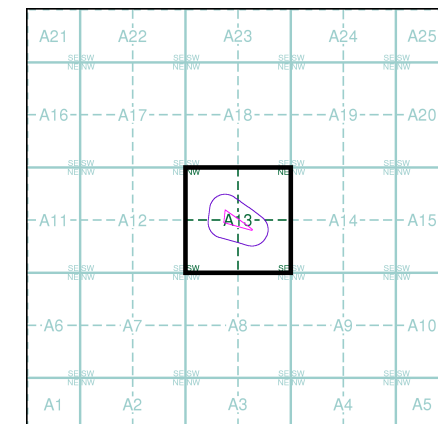
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

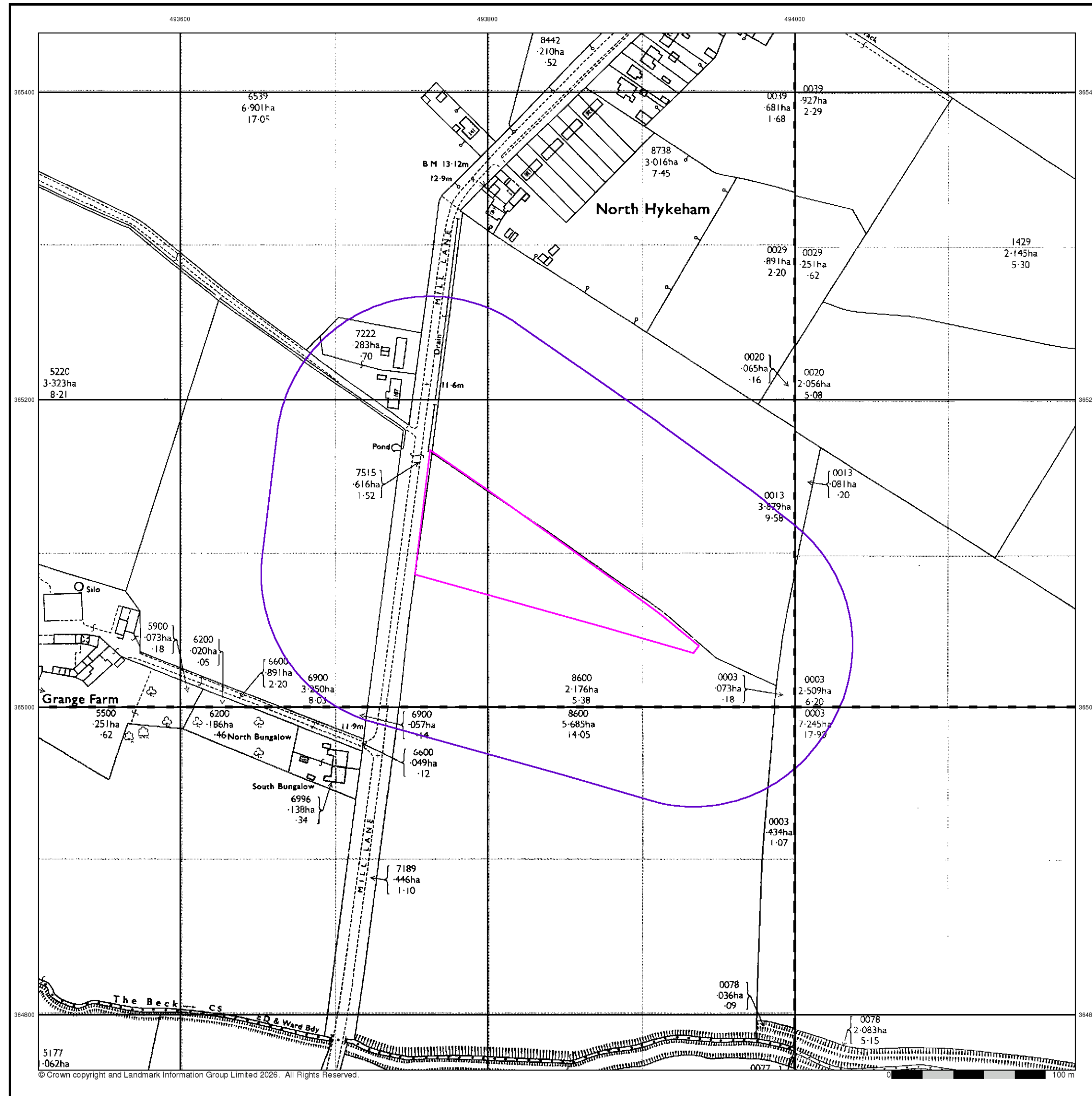
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1971 - 1976

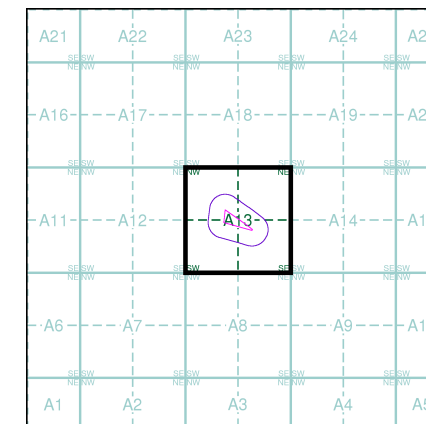
Source map scale - 1:2,500

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)

SK9365 1971 12,500	SK9465 1971 12,500
SK9364 1976 12,500	SK9464 1971 12,500

Historical Map - Segment A13



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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Large-Scale National Grid Data

Published 1993

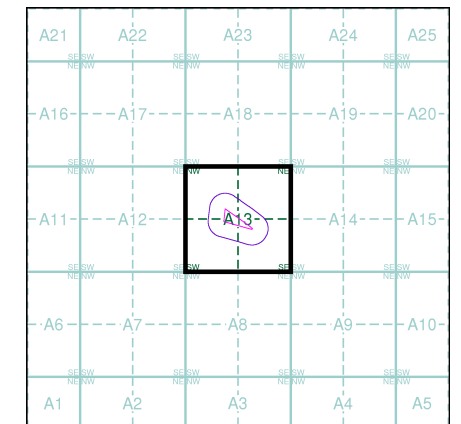
Source map scale - 1:1,250

'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)

SK9365SE 1993 1:1,250	SK9465SW 1993 1:1,250
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Historical Map - Segment A13



Order Details

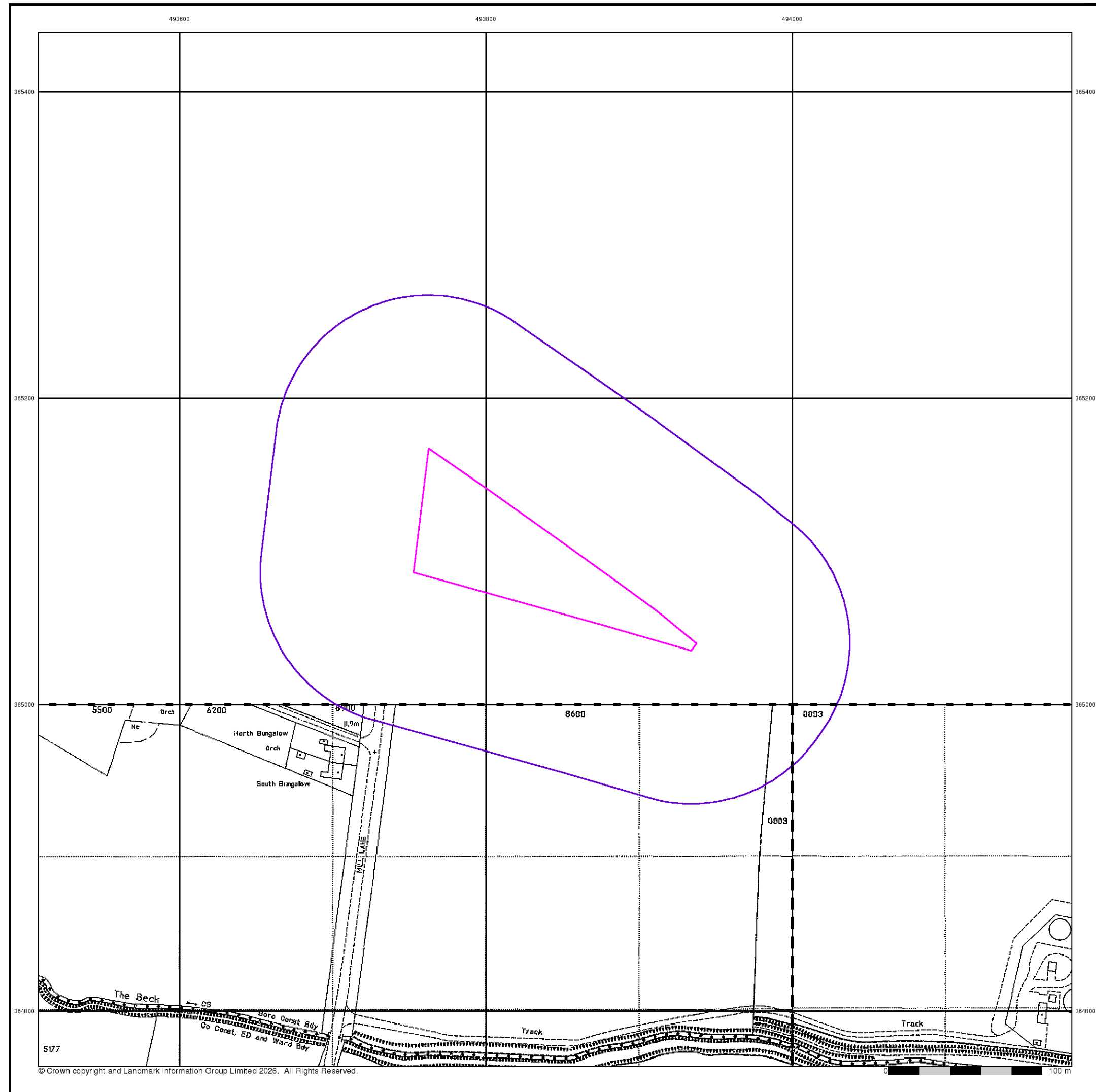
Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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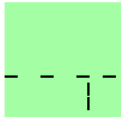
Large-Scale National Grid Data

Published 1994

Source map scale - 1:2,500

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

Map Name(s) and Date(s)



SK9364

1994

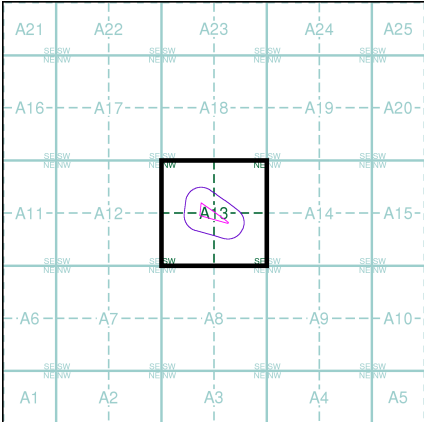
1:2,500

SK9464

1994

1:2,500

Historical Map - Segment A13



Order Details

Order Number:

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Tel:

0844 844 9952

Fax:

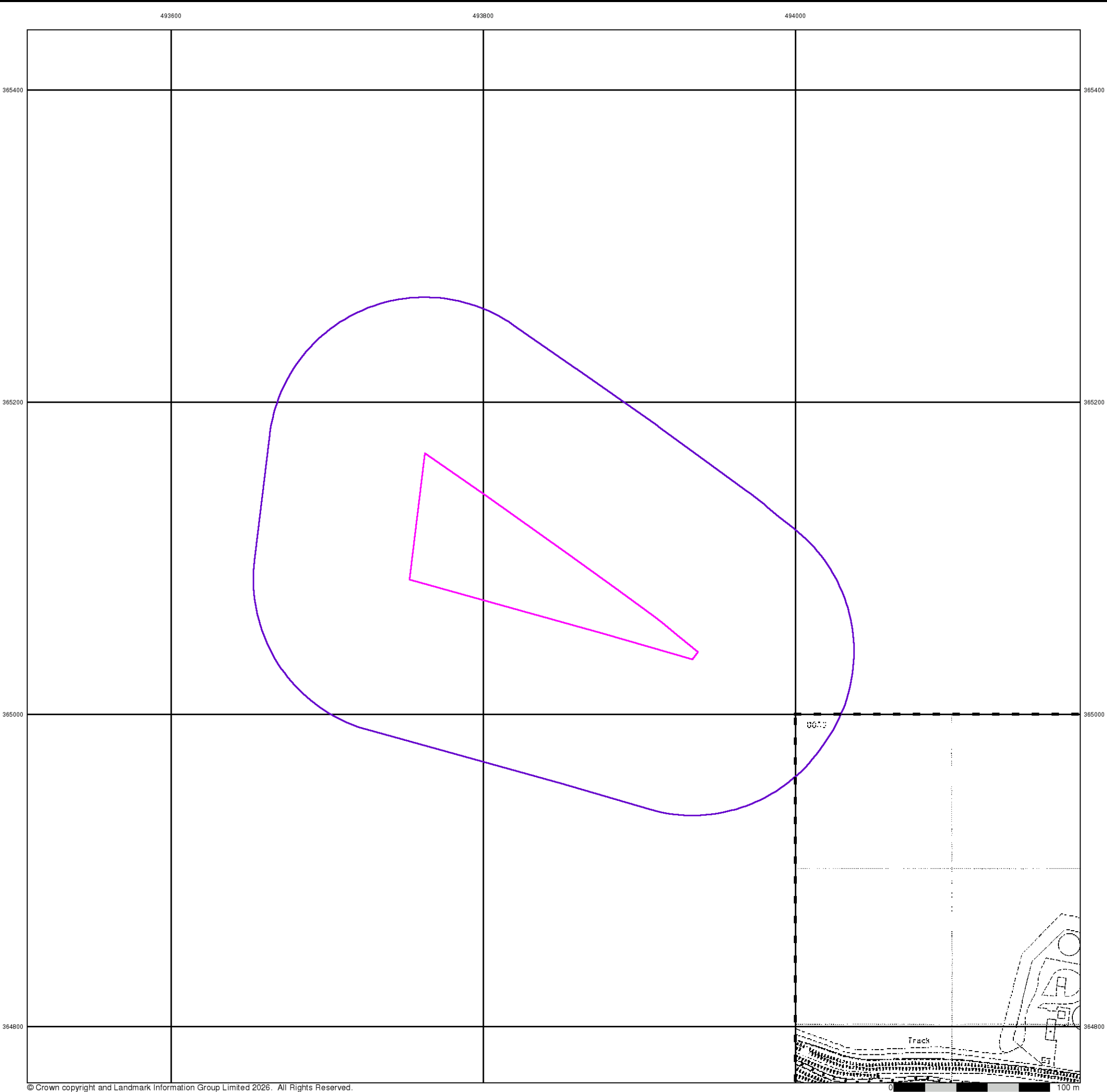
0844 844 9951

Web:

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Page 7 of 9



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0 100 m

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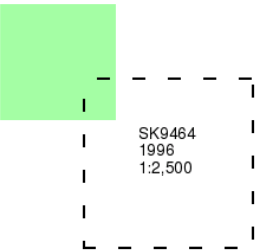
Large-Scale National Grid Data

Published 1996

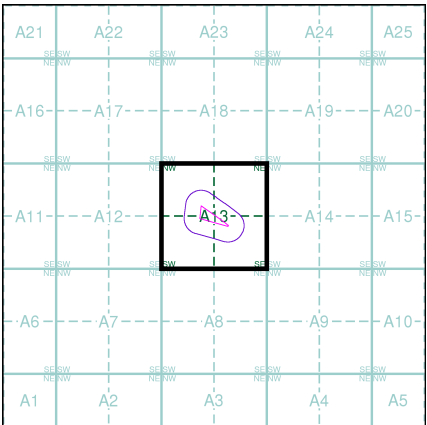
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
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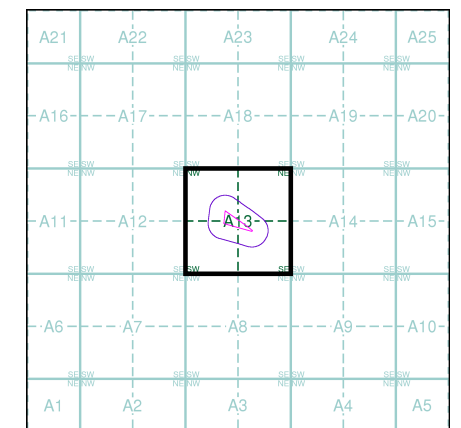
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 397017023_1_1
Customer Ref: CDS-North Hykeham-26
National Grid Reference: 493840, 365090
Slice: A
Site Area (Ha): 0.85
Search Buffer (m): 100

Site Details

Town Cemetery, Mill Lane, Lincoln, LN6 9PB

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

397017023_1_1

Customer Reference:

CDS-North Hykeham-26

National Grid Reference:

493840, 365090

Slice:

A

Site Area (Ha):

0.85

Search Buffer (m):

1000

Site Details:

Town Cemetery, Mill Lane

Lincoln

LN6 9PB

Client Details:

Mr C Ward

Cemetery Development Services

The CDS group

Attn: Accounts Payable

Building 51

Silsoe

Bedfordshire

MK45 4HS

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	31
Hazardous Substances	-
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Industrial Land Use	36
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Introduction

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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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	pg 1		1	8	3
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4				3
Local Authority Pollution Prevention and Control Enforcements	pg 4				1
Nearest Surface Water Feature	pg 4	Yes			
Pollution Incidents to Controlled Waters	pg 4			5	8
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register					
Water Abstractions	pg 7			2	1 (*26)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 14		Yes	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 15	1	18	35	79
Water Framework Directive - Catchment	pg 29	Yes	Yes		
Water Framework Directive - Groundwater	pg 30	Yes			
Water Framework Directive - Surface Waters	pg 30			Yes	

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 31				4
Local Authority Landfill Coverage	pg 31	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 31			1	4
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 32				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 33	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 33	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 34				Yes
BGS Urban Soil Chemistry Averages	pg 34		Yes		
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 35	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 35	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 36		3	7	14
Fuel Station Entries					
Points of Interest - Commercial Services	pg 38			4	6
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 39				4
Points of Interest - Public Infrastructure	pg 39	1	1	5	5
Points of Interest - Recreational and Environmental	pg 40			3	1
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 41	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (NW)	0	1	493837 365092
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	0	1	493800 365092
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	58	1	493837 365000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	64	1	494000 365092
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (E)	174	1	494100 365100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	470	1	493750 364600
1	Discharge Consents Operator: Mr Bruce Large Property Type: Domestic Property (Multiple) Location: Grange Farm Bungalows Septic Tank Grange Farm Bungalows (N And S), Mill Lane, North Hykeham, Lincolnshire, Ln6 9pb Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Eprmb3694ej Permit Version: 1 Effective Date: 30th April 2019 Issued Date: 30th April 2019 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Beck Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	150	2	493720 364940
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Annnf10394 Permit Version: 7 Effective Date: 23rd April 2015 Issued Date: 30th March 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Annnf10394 Permit Version: 6 Effective Date: 31st March 2015 Issued Date: 29th March 2010 Revocation Date: 22nd April 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Annnf10394 Permit Version: 5 Effective Date: 29th March 2010 Issued Date: 29th March 2010 Revocation Date: 30th March 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Annnf10394 Permit Version: 4 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 28th March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Annnf10394 Permit Version: 3 Effective Date: 19th July 1995 Issued Date: 19th July 1995 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Annnf10394 Permit Version: 2 Effective Date: 20th January 1992 Issued Date: 20th January 1992 Revocation Date: 18th July 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: South Hykeham Beck River Witha Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	350	2	494150 364760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: South Hykeham Stw, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Annnf10394 Permit Version: 1 Effective Date: 22nd February 1991 Issued Date: 22nd February 1991 Revocation Date: 19th January 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Witham Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	350	2	494150 364760
3	Discharge Consents Operator: Anglian Water Services Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Sps South Hykeham Meadow Lane, South Hykeham, Lincoln, Ln6 9pf Authority: Environment Agency, Anglian Region Catchment Area: Upper River Witham (North Hykeham) Reference: Aw3nff704 Permit Version: 1 Effective Date: 30th May 1968 Issued Date: 30th May 1968 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Trib. Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	475	2	493945 364561
4	Discharge Consents Operator: South Hykeham Parochial Church Council Property Type: CHURCH/MONASTERY/ABBEY/RELIGIOUS RETREAT/ASSOCIATION HQ Location: St Michaels And All Angels Church St Michaels And All Angels, Meadow Lane, South Hykeham, Lincolnshire, Ln6 9pq Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Eprmb3348kb Permit Version: 1 Effective Date: 21st January 2025 Issued Date: 21st January 2025 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	552	2	493693 364531
5	Discharge Consents Operator: Mary Large Ltd Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Dairy And Piggery At Grange Farm No, South Hykeham, Lincoln, Ln6 Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr3nfs1605 Permit Version: 1 Effective Date: 25th March 1969 Issued Date: 25th March 1969 Revocation Date: 19th February 1992 Discharge Type: Agricultural effluents Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Trib Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	608	2	493560 364510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Mary Large Ltd Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Grange Farm N.Hykeham, South Hykeham, Lincoln, LN6 Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr3nfs1606 Permit Version: 1 Effective Date: 25th March 1969 Issued Date: 25th March 1969 Revocation Date: 19th February 1992 Discharge Type: Agricultural effluents Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Trib Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8SE (S)	627	2	493900 364410
7	Local Authority Pollution Prevention and Controls Name: Roehire Ltd Location: Roe House, Boundary Lane, South Hykeham, LINCOLN, Lincolnshire, LN6 9NQ Authority: North Kesteven District Council, Environmental Health Department Permit Reference: Ippc/2004/13 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Authorised Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	3	493048 364847
7	Local Authority Pollution Prevention and Controls Name: Roehire Ltd Location: Roe House, Boundary Lane, South Hykeham, LINCOLN, Lincolnshire, LN6 9NQ Authority: North Kesteven District Council, Environmental Health Department Permit Reference: Epa/I/1999/63 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Authorised Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	3	493048 364847
7	Local Authority Pollution Prevention and Controls Name: H & S Roe & Sons Farms Ltd Location: Roe House, Boundary Lane, South Hykeham, Lincoln Authority: North Kesteven District Council, Environmental Health Department Permit Reference: IPPC/2008/51 Dated: 1st April 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Manually positioned to the address or location	A12SW (W)	746	3	493047 364847
8	Local Authority Pollution Prevention and Control Enforcements Location: Roe House, Boundary Lane, South Hykeham, Lincoln Type: Air Pollution Control Enforcement Notice Reference: IPPC/2008/51 Date Issued: 18th September 2012 Enforcement Date: Not Supplied Details: Not Supplied Positional Accuracy: Manually positioned to the address or location	A12SW (W)	746	3	493047 364847
	Nearest Surface Water Feature	A13NE (NE)	0	-	493848 365107
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Prial Drain Incident Date: 20th February 1992 Incident Reference: 1281 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	288	2	494100 364800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Prial Drain Incident Date: 12th March 1992 Incident Reference: 1288 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	292	2	494100 364795
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Prial Drain Incident Date: 13th March 1992 Incident Reference: 1289 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	295	2	494105 364795
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Shykeham Catchwater Incident Date: 30th March 1992 Incident Reference: 1306 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	290	2	493700 364800
11	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Sewage Sludge Note: Tributary Of River Witham Incident Date: 2nd November 1995 Incident Reference: 2318 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	375	2	494100 364700
12	Pollution Incidents to Controlled Waters Property Type: Road Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Oils - Waste Oil Note: Dyke Shykhham Incident Date: 14th February 1995 Incident Reference: 2089 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	679	2	493100 364900
13	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Apex Lake Incident Date: 29th June 1995 Incident Reference: 2205 Catchment Area: Not Given Receiving Water: Groundwater Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	751	2	493600 365900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Hykeham Catchwater Incident Date: 15th November 1993 Incident Reference: 1774 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	791	2	494500 365595
14	Pollution Incidents to Controlled Waters Property Type: Oil Industry (Not Garages) Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: South Hykeham Catchwater Incident Date: 6th May 1994 Incident Reference: 1910 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Leaking Tank Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	794	2	494505 365595
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Hykeham Catchwater Incident Date: 4th August 1993 Incident Reference: 1709 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	794	2	494500 365600
14	Pollution Incidents to Controlled Waters Property Type: Oil Industry (Not Garages) Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Oils - Diesel (Including Agricultural) Note: Hykeham Catchwater Incident Date: 17th November 1994 Incident Reference: 2047 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	798	2	494505 365600
14	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Oils - Other Oil Note: Hykeham Catchwater Incident Date: 15th May 1995 Incident Reference: 2176 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	801	2	494505 365605
15	Pollution Incidents to Controlled Waters Property Type: Road Location: Lincoln District Authority: Environment Agency, Anglian Region Pollutant: Oils - Diesel (Including Agricultural) Note: Ground Incident Date: 30th December 1997 Incident Reference: 2897 Catchment Area: Not Given Receiving Water: Groundwater Cause of Incident: Overfilling During Delivery Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11SE (W)	995	2	492800 364800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Water Abstractions Operator: H. & S.Roe & Sons Farms Licence Number: 4/30/03/*g/069 Permit Version: Not Supplied Location: Lane Farm Catphpit, NORTH HYKEHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Catchpit, Catchment Tank or Collecting Tank Daily Rate (m3): 9 Yearly Rate (m3): 682000 Details: Fluvial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	445	2	494200 365400
17	Water Abstractions Operator: H. & S.Roe & Sons Farms Licence Number: 4/30/03/*g/069 Permit Version: Not Supplied Location: Chapel Farm Catchpit, NORTH HYKEHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Catchpit, Catchment Tank or Collecting Tank Daily Rate (m3): 7 Yearly Rate (m3): 682000 Details: Fluvial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	463	2	493600 365600
18	Water Abstractions Operator: M & B Large Licence Number: 4/30/03/*G/0051 Permit Version: 100 Location: Mary Large Catchpit N.Hykeham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fluvial Sand and Gravel; Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st August 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	565	2	493400 365600
	Water Abstractions Operator: H. & S.Roe & Sons Licence Number: 4/30/03/*g/062 Permit Version: Not Supplied Location: Disused Gravel Pit, NORTH HYKEHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Catchpit, Catchment Tank or Collecting Tank Daily Rate (m3): 10 Yearly Rate (m3): 909000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NE (N)	1407	2	493300 366495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cemex Uk Materials Ltd Licence Number: 4/30/03/*G/0041 Permit Version: 103 Location: Gravel Pit North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st December 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NE (NW)	1414	2	492700 366100
	Water Abstractions Operator: Cemex Uk Materials Ltd Licence Number: 4/30/03/*G/0041 Permit Version: 102 Location: Gravel Pit North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th January 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NE (NW)	1414	2	492700 366100
	Water Abstractions Operator: Rmc Aggregates (Eastern) Ltd Licence Number: 4/30/03/*G/0041 Permit Version: 101 Location: Gravel Pit North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Mineral Products: Mineral Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fluvial Sand and Gravel; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A16NE (NW)	1414	2	492700 366100
	Water Abstractions Operator: H & S Roe & Sons Farms Licence Number: 4/30/03/*S/0070 Permit Version: 100 Location: R.Witham (L.Bank) S.Hykeham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st September 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10SE (SE)	1517	2	495200 364200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: H & S Roe & Sons Farms Licence Number: 4/30/03/*S/0070 Permit Version: 100 Location: R.Witham (L.Bank) N.Hykeham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st September 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1528	2	495400 364600
	Water Abstractions Operator: B Large Licence Number: 4/30/03/*S/0008 Permit Version: 101 Location: River Witham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 12th January 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1541	2	495380 364500
	Water Abstractions Operator: C A Mottram & Sons Licence Number: 4/30/03/*S/0065 Permit Version: 100 Location: River Witham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st August 1986 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1541	2	495380 364500
	Water Abstractions Operator: M & B Large Licence Number: 4/30/03/*S/0008 Permit Version: 100 Location: River Witham Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st August 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NE (E)	1559	2	495400 364500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C. A. Mottram & Sons Licence Number: 4/30/03/*s/065 Permit Version: Not Supplied Location: River Witham Reach1, WADDINGTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 23 Yearly Rate (m3): 546000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SE (E)	1581	2	495500 364800
	Water Abstractions Operator: C A Mottram & Sons Licence Number: 4/30/03/*S/0065 Permit Version: 100 Location: River Witham Reach2 Waddington Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st August 1986 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1670	2	495600 365195
	Water Abstractions Operator: A D Burgess & Son Licence Number: 4/30/03/*s/085 Permit Version: Not Supplied Location: River Witham, WADDINGTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 11 Yearly Rate (m3): 600000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1671	2	495600 365200
	Water Abstractions Operator: H. & S. Roe & Sons Licence Number: 4/30/03/*s/070 Permit Version: Not Supplied Location: River Witham (L Bank) , WADDINGTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 23 Yearly Rate (m3): 681900 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1683	2	495600 365300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Anglian Water Services Ltd Licence Number: 4/30/03/*i/063 Permit Version: Not Supplied Location: River Witham , SOUTH HYKEHAM Authority: Environment Agency, Anglian Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5NE (SE)	1698	2	495240 363950
	Water Abstractions Operator: H & S Roe & Sons Farms Licence Number: 4/30/03/*S/0070 Permit Version: 100 Location: R.Witham (R.Bank) Waddington Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st September 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1789	2	495600 365700
	Water Abstractions Operator: H & J Nevile & Son Licence Number: 4/30/03/*s/021 Permit Version: Not Supplied Location: River Witham, AUBOURN Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 9 Yearly Rate (m3): 764000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SE (SE)	1804	2	495200 363750
	Water Abstractions Operator: H & J Nevile & Son Licence Number: 4/30/03/*s/078 Permit Version: Not Supplied Location: River Witham, HOULSTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 36 Yearly Rate (m3): 1023000 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A5SE (SE)	1808	2	495200 363745

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C A Mottram & Sons Licence Number: 4/30/03/*S/0065 Permit Version: 100 Location: River Witham At Waddington Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st August 1986 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1828	2	495600 365800
	Water Abstractions Operator: C A Mottram & Sons Licence Number: 4/30/03/*S/0065 Permit Version: 100 Location: River Brant Harmston Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st August 1986 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SE (SE)	1844	2	495200 363695
	Water Abstractions Operator: H. & S. Roe & Sons Licence Number: 4/30/03/*g/062 Permit Version: Not Supplied Location: Disused Gravel Pit, NORTH HYKEHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Catchpit, Catchment Tank or Collecting Tank Daily Rate (m3): 10 Yearly Rate (m3): 909000 Details: Fluvial Sand and Gravel; Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1866	2	492700 366700
	Water Abstractions Operator: George Fischer Lincoln Ltd Licence Number: 4/30/03/*S/0004a Permit Version: 100 Location: Pike Drain North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1869	2	493400 367000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Lincoln Castings Ltd Licence Number: 4/30/03/*S/0105 Permit Version: 1 Location: Pike Drain North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1875	2	493480 367020
	Water Abstractions Operator: Pennells Estates Ltd Licence Number: 4/30/03/*G/0081 Permit Version: 100 Location: Catchpit At North Hykeham Authority: Environment Agency, Anglian Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fluvial Sand and Gravel; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st November 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1938	2	491900 365700
	Water Abstractions Operator: George Fischer Lincoln Ltd Licence Number: 4/30/03/*S/0047 Permit Version: 100 Location: Trib. Of Pike Drain N.Hykeham Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1951	2	493500 367100
	Water Abstractions Operator: Lincoln Castings Ltd Licence Number: 4/30/03/*S/0047 Permit Version: 101 Location: Trib. Of Pike Drain N.Hykeham Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1972	2	493490 367120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C. A. Mottram & Sons Licence Number: 4/30/03/*s/065 Permit Version: Not Supplied Location: River Witham Reach3, WADDINGTON Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 23 Yearly Rate (m3): 546000 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1972	2	495600 366100
	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 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SW (NW)	0	2	493837 365092
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SE (SE)	0	2	493887 365065
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SW (NW)	0	2	493837 365092
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	2	493837 365092
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	235	2	493899 364795
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 258.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NE (NE)	0	4	493848 365107
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	3	4	493760 365169
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	3	4	493760 365169
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	19	4	493744 365172
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 325.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	19	4	493744 365172
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	21	4	493743 365171
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	21	4	493743 365172
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13NW (NW)	21	4	493743 365172
27	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 164.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13NW (NW)	29	4	493735 365175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	31	4	493765 365198
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13NW (NW)	34	4	493765 365201
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (SE)	39	4	493972 365022
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (SE)	47	4	493979 365018
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (SE)	55	4	493986 365015
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SE (SE)	55	4	493986 365015
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 258.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13SE (SE)	57	4	493988 365014
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 327.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A13NW (NW)	191	4	493600 365268
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (SE)	235	4	493972 364804

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A13SE (SE)	243	4	493973 364796
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 963.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Beck Catchment Name: Witham Primacy: 1	A13SE (S)	252	4	493910 364782
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1496.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Beck Catchment Name: Witham Primacy: 1	A13SE (SE)	257	4	493972 364781
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A14SW (SE)	315	4	494191 364854
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	320	4	493831 364715
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (S)	323	4	493965 364715
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (S)	323	4	493968 364715
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18SE (N)	327	4	493898 365464
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12NE (NW)	338	4	493482 365355

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12NE (NW)	344	4	493476 365357
47	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	349	4	494050 364707
48	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: Witham Primacy: 1	A8NE (SE)	352	4	494055 364705
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	358	4	494066 364703
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	360	4	494069 364702
51	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	366	4	493771 364701
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	369	4	493764 364701
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	369	4	493691 364721
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 553.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	371	4	494155 364738

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NW (S)	375	4	493717 364708
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18SE (N)	376	4	493936 365501
57	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: Witham Primacy: 1	A14NW (NE)	399	4	494211 365329
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18SE (N)	400	4	493954 365518
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	401	4	494147 364696
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NW (SE)	403	4	494231 364763
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 169.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (SE)	412	4	494276 364806
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18SE (N)	413	4	493964 365527
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18SW (NW)	415	4	493580 365540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (SE)	423	4	494312 364844
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	447	4	494137 364638
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	447	4	494137 364638
67	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	464	4	494358 365235
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (E)	465	4	494387 364922
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 293.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (E)	472	4	494395 364924
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	472	4	494370 365228
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	491	4	493503 365583
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	492	4	493501 365584

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	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: Witham Primacy: 1	A8NE (S)	501	4	493944 364535
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 396.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SW (E)	503	4	494424 364912
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12NE (NW)	517	4	493321 365434
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	520	4	493323 365444
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	524	4	493319 365446
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	541	4	494462 365172
79	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	562	4	494152 364518
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8NE (SE)	563	4	494155 364518
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	586	4	494502 365194

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	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: Witham Primacy: 1	A14NW (E)	586	4	494502 365194
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	588	4	494505 365192
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	590	4	493256 365470
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17SE (NW)	597	4	493250 365473
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 341.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NW (E)	601	4	494519 365188
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	642	4	493121 364974
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Beck Catchment Name: Witham Primacy: 1	A12SW (W)	653	4	493100 365082
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 403.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A12SW (W)	653	4	493100 365082
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NW (SE)	677	4	494322 364480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A17SE (NW)	681	4	493361 365717
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 208.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NW (SE)	682	4	494328 364479
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 407.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	702	4	493079 364888
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 623.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8SE (S)	711	4	493939 364325
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8SW (S)	711	4	493832 364325
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Beck Catchment Name: Witham Primacy: 1	A12SW (W)	718	4	493036 365056
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	718	4	493036 365056
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8SW (S)	720	4	493818 364325
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	723	4	493031 365041

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	725	4	493029 365043
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 318.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Beck Catchment Name: Witham Primacy: 1	A12SW (W)	732	4	493022 365050
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	745	4	493009 365068
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 560.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A12SW (W)	751	4	493003 365070
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17NE (NW)	752	4	493338 365787
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 276.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	775	4	494633 364699
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 719.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	776	4	494635 364701
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 187.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	819	4	493029 364704
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 357.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18NE (N)	820	4	494147 365907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18NW (N)	826	4	493806 365991
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 307.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18NW (N)	827	4	493794 365993
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	828	4	494222 365857
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A18NE (N)	833	4	494158 365899
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	848	4	494531 364433
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17NE (NW)	851	4	493370 365921
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	854	4	494538 364432
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 352.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	859	4	494542 364429
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	859	4	494544 364431

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	862	4	494546 364430
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	867	4	492997 364663
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	868	4	492997 364660
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9NE (SE)	873	4	494560 364427
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	874	4	494297 365859
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	875	4	492993 364653
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A17NE (N)	876	4	493489 365999
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	894	4	494829 364973
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	895	4	494830 364981

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	895	4	494830 364985
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	899	4	494812 364836
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	905	4	494841 365074
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	907	4	494347 365864
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 440.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7SW (SW)	910	4	493159 364397
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	912	4	494604 364417
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	914	4	494352 365869
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	915	4	494607 364416
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14SE (E)	921	4	494854 364955

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	935	4	494857 365206
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	935	4	494857 365206
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	935	4	494857 365208
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A14NE (E)	937	4	494858 365216
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A8SE (S)	945	4	494166 364120
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	948	4	494433 365854
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	965	4	492951 364550
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A7NW (SW)	967	4	492963 364529
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	968	4	494667 364403

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 394.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A9SE (SE)	974	4	494673 364402
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A11NE (W)	975	4	492802 365334
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 2	A11NE (W)	984	4	492794 365339
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A23SW (N)	987	4	493689 366151
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19SE (NE)	992	4	494792 365544
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19NW (NE)	997	4	494422 365922
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Witham Primacy: 1	A19SE (NE)	1000	4	494804 365538
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Witham - conf Brant to conf Catchwater Drain WaterBody ID: GB105030062370 Operational Catchment: Witham Upper Management Catchment: Witham Catchment Name: Witham	A13SW (NW)	0	2	493837 365092
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: South Hykeham Catchwater WaterBody ID: GB105030062460 Operational Catchment: Witham Upper Management Catchment: Witham Catchment Name: Witham	A13SW (SW)	132	2	493748 364936

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Groundwater Waterbody Name: Witham Lias Waterbody ID: GB40502G401400 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40502G401400 Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2019	A13SW (NW)	0	2	493837 365092
	Water Framework Directive - Surface Waters Class Code: River Waterbody Name: South Hykeham Catchwater Waterbody ID: GB105030062460 URL Address: Not Supplied Overall Rating: Not Assessed Chemical Rating: Not Assessed Classification Year: 2022	A13SE (S)	252	2	493911 364782

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	Licensed Waste Management Facilities (Locations) Licence Number: 103517 Location: Roe House, Boundary Lane, South Hykeham, Lincolnshire, LN6 9NQ Operator Name: NEW EARTH SOLUTIONS (WEST) LIMITED Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Not Supplied Licence Status: Issued Issued: 3rd November 2011 Last Modified: 3rd November 2011 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	878	2	492920 364808
152	Licensed Waste Management Facilities (Locations) Licence Number: 104235 Location: Roe House, Boundary Lane, South Hykeham, Lincoln, Lincolnshire, LN6 9NQ Operator Name: NEW EARTH SOLUTIONS (WEST) LIMITED Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Not Supplied Licence Status: Issued Issued: 11th May 2012 Last Modified: 11th May 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	898	2	492897 364816
153	Licensed Waste Management Facilities (Locations) Licence Number: 73189 Location: 20 B True Autobreakers Haze Lane, North Hykeham, Lincoln, Lincolnshire, LN6 9SR Operator Name: Brian True Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: End of Life Vehicles Licence Status: Surrendered Issued: 1st February 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 1st February 2004 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	915	2	493368 365992
154	Licensed Waste Management Facilities (Locations) Licence Number: 404075 Location: Mushroom Farm Materials Recycling Facility, Boundary Lane, South Hykeham, Lincoln, Lincolnshire, LN6 9NQ Operator Name: GRANTHAM INDUSTRIES LIMITED Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Issued Issued: 3rd October 2018 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	A11SE (W)	951	2	492802 365085
	Local Authority Landfill Coverage Name: North Kesteven District Council - Had landfill data but passed it to the relevant environment agency		0	3	493837 365092
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	5	493837 365092
155	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NE (S)	385	-	493869 364656

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NE (S)	531	-	494060 364520
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NE (SE)	563	-	494159 364519
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SE (SE)	680	-	494138 364387
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8SW (S)	758	-	493763 364297
160	Registered Waste Treatment or Disposal Sites Licence Holder: B True - Autobreakers Licence Reference: S067 Site Location: Haze Lane, Newark Road, North Hykeham, Lincoln, Lincolnshire Operator Location: 3 Boundary Lane, South Hykeham, LINCOLN, Lincolnshire, LN6 9NQ Authority: Environment Agency - Anglian Region, Northern Area Site Category: Scrapyard - with Transfer Station Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licence Dated: 1st June 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Batteries (Dry) Batteries With Acid Decontam./Clean Empty Containers Electric Cable & Wire Empty Cont'Rs - Not Cleaned/Decontam Lincs Cat.A Inert Waste Lincs Cat.B Gen.Waste (Slow Decomp) Lincs Cat.Bii Gen.W.-Scrap Met.Solid Lincs Cat.Biii Gen.W-Scrapmet.Nonsol Mineral Oils Scrap Rubber (Including Tyres) Difficult Waste N.O.S. Liquid Waste N.O.S. Waste N.O.S. Prohibited Waste:	A17NE (NW)	925	2	493340 365990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lias Group	A13SW (NW)	0	1	493837 365092
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SW (NW)	0	1	493837 365092
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	493887 365065
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SE (E)	63	1	494000 365083
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A8NW (S)	467	1	493711 364614
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12SW (W)	753	1	493000 365092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 493787, 365756 Soil Sample Type: Topsoil Sample Area: Lincoln Arsenic Measured Concentration: 6.20 mg/kg Cadmium Measured Concentration: 0.20 mg/kg Chromium Measured Concentration: 30.60 mg/kg Lead Measured Concentration: 34.10 mg/kg Nickel Measured Concentration: 7.70 mg/kg	A18SW (N)	590	1	493787 365756
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 494249, 365754 Soil Sample Type: Topsoil Sample Area: Lincoln Arsenic Measured Concentration: 7.70 mg/kg Cadmium Measured Concentration: 0.40 mg/kg Chromium Measured Concentration: 39.60 mg/kg Lead Measured Concentration: 100.30 mg/kg Nickel Measured Concentration: 14.70 mg/kg	A19SW (NE)	760	1	494249 365754
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 493222, 365761 Soil Sample Type: Topsoil Sample Area: Lincoln Arsenic Measured Concentration: 5.90 mg/kg Cadmium Measured Concentration: 0.10 mg/kg Chromium Measured Concentration: 24.90 mg/kg Lead Measured Concentration: 24.70 mg/kg Nickel Measured Concentration: 5.70 mg/kg	A17SE (NW)	803	1	493222 365761
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Lincoln Count Id: 214 Arsenic Minimum Concentration: 4.00 mg/kg Arsenic Average Concentration: 15.00 mg/kg Arsenic Maximum Concentration: 63.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.40 mg/kg Cadmium Maximum Concentration: 1.60 mg/kg Chromium Minimum Concentration: 20.00 mg/kg Chromium Average Concentration: 45.00 mg/kg Chromium Maximum Concentration: 118.00 mg/kg Lead Minimum Concentration: 16.00 mg/kg Lead Average Concentration: 109.00 mg/kg Lead Maximum Concentration: 1516.00 mg/kg Nickel Minimum Concentration: 3.00 mg/kg Nickel Average Concentration: 17.00 mg/kg Nickel Maximum Concentration: 74.00 mg/kg	A13NW (N)	33	1	493837 365200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	36	1	493837 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	36	1	493837 365000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	36	1	493837 365000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	36	1	493837 365000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	493887 365065
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	36	1	493847 365000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	58	1	493837 365000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	493822 365179
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	1	493837 365092
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	36	1	493837 365000
	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	A13SW (NW)	0	1	493837 365092
	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	A13SW (NW)	0	1	493837 365092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	Contemporary Trade Directory Entries Name: Commercial Measured Surveys Ltd Location: Londinium Way, North Hykeham, Lincoln, Lincolnshire, LN6 9LF Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	138	-	493663 365262
162	Contemporary Trade Directory Entries Name: Gas Sound Location: 7 Hambleton Av, North Hykeham, Lincoln, Lincolnshire, LN6 9TU Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (N)	152	-	493826 365305
163	Contemporary Trade Directory Entries Name: Fascia Friendly Ltd Location: 10, Hambleton Avenue, North Hykeham, Lincoln, LN6 9TU Classification: Fascias and Soffits Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	185	-	493991 365232
164	Contemporary Trade Directory Entries Name: I O Plumbing & Heating Location: 24, Claudius Road, North Hykeham, Lincoln, LN6 9PH Classification: Boilers - Servicing, Replacements & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	267	-	493664 365415
165	Contemporary Trade Directory Entries Name: G P T Automotive Ltd Location: 122, Mill Lane, North Hykeham, LINCOLN, LN6 9PE Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	267	-	493903 365394
165	Contemporary Trade Directory Entries Name: N L S Cars Location: 122, Mill Lane, North Hykeham, Lincoln, LN6 9PE Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	268	-	493890 365402
166	Contemporary Trade Directory Entries Name: Lincolnshire Air Testing Ltd Location: 16, TITUS WAY, NORTH HYKEHAM, LINCOLN, LN6 9FA Classification: Ventilators & Ventilation Systems Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	292	-	493577 365392
167	Contemporary Trade Directory Entries Name: Hykeham Cleaning Services Location: 24, Augustus Close, North Hykeham, Lincoln, LN6 9NF Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	297	-	493815 365459
168	Contemporary Trade Directory Entries Name: Stephenson (Lincoln) Ltd Location: 4, Beck Lane, South Hykeham, Lincoln, LN6 9PQ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	479	-	493665 364614
169	Contemporary Trade Directory Entries Name: Hykeham Location: 23, Meadow Lane, South Hykeham, Lincoln, LN6 9PF Classification: Paint & Varnish Stripping Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	498	-	493817 364552
170	Contemporary Trade Directory Entries Name: Lightning Recycling Ltd Location: Lightning Recycling Limited, The Hangers, Long Lane, Lincoln, LN6 9NX Classification: Recycling Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	646	-	493330 364599
170	Contemporary Trade Directory Entries Name: Springfield Garage Location: Long Lane, South Hykeham, Lincoln, LN6 9NX Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	646	-	493331 364598

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	Contemporary Trade Directory Entries Name: Hykeham Fast Fit Location: The Hangers, Long Lane, Lincoln, LN6 9NX Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	646	-	493330 364599
170	Contemporary Trade Directory Entries Name: Jesters Auto Services Location: THE HANGERS, LONG LANE, SOUTH HYKEHAM, LINCOLN, LN6 9NX Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	646	-	493330 364599
171	Contemporary Trade Directory Entries Name: P Davis Location: 2, Vespasian Way, North Hykeham, Lincoln, LN6 9ZB Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	722	-	493369 365772
172	Contemporary Trade Directory Entries Name: A B Automotive Ltd Location: BOUNDARY LANE, SOUTH HYKEHAM, LINCOLN, LN6 9NQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	724	-	493117 364742
173	Contemporary Trade Directory Entries Name: Combat Waste Skip Hire Ltd Location: 11, Millbrook Close, North Hykeham, Lincoln, LN6 9TA Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	762	-	493842 365925
174	Contemporary Trade Directory Entries Name: D Tear Haulage Location: SOUTH HYKEHAM, LINCOLN, LN6 9NQ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	768	-	493053 364770
175	Contemporary Trade Directory Entries Name: Specialist Handrail Systems Ltd Location: North Hykeham, Lincoln, Lincolnshire, LN6 9PD Classification: Staircase, Balustrade & Handrail Manufacturers Status: Active Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	790	-	494273 365773
176	Contemporary Trade Directory Entries Name: Speedyprint Of Newark Location: 6, Exmoor Close, North Hykeham, Lincoln, LN6 9PW Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	884	-	493805 366050
177	Contemporary Trade Directory Entries Name: B True Location: 20, Haze Lane, North Hykeham, Lincoln, LN6 9SR Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A17NE (NW)	915	-	493368 365992
177	Contemporary Trade Directory Entries Name: Haze Lane Garage Location: 18, Haze Lane, North Hykeham, Lincoln, LN6 9SR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	943	-	493362 366020
178	Contemporary Trade Directory Entries Name: East Midlands Business Machines Location: 9, Hawksmoor Close, North Hykeham, Lincoln, LN6 9PN Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	956	-	493991 366095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	Contemporary Trade Directory Entries Name: G B M Waste Location: Mushroom Farm, Boundary Lane, South Hykeham, Lincoln, Lincolnshire, LN6 9NQ Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	993	-	492764 365172
180	Points of Interest - Commercial Services Name: G P T Automotive Ltd Location: 122 Mill Lane, North Hykeham, Lincoln, LN6 9PE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	268	6	493890 365402
181	Points of Interest - Commercial Services Name: Stephenson (Lincoln) Ltd Location: 4 Beck Lane, South Hykeham, Lincoln, LN6 9PQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	479	6	493665 364614
182	Points of Interest - Commercial Services Name: Squeaky Clean Car Valeting Services Ltd Location: 31 Meadow Lane, South Hykeham, Lincoln, LN6 9PF Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	484	6	493871 364556
182	Points of Interest - Commercial Services Name: Squeaky Clean Car Valeting Services Ltd Location: 31 Meadow Lane, South Hykeham, Lincoln, LN6 9PF Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	484	6	493871 364556
183	Points of Interest - Commercial Services Name: Lightning Recycling Ltd Location: Lightning Recycling Limited The Hangers, Long Lane, Lincoln, LN6 9NX Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A7NE (SW)	646	6	493330 364599
183	Points of Interest - Commercial Services Name: Jestors Auto Services Location: The Hangers, Long Lane, South Hykeham, Lincoln, LN6 9NX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	646	6	493330 364599
184	Points of Interest - Commercial Services Name: A B Automotive Ltd Location: Boundary Lane, South Hykeham, Lincoln, LN6 9NQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	724	6	493116 364742
185	Points of Interest - Commercial Services Name: Westminster Truck & Van Ltd Location: Roe House, Boundary Lane, South Hykeham, Lincoln, LN6 9NQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	745	6	493048 364847
185	Points of Interest - Commercial Services Name: D Tear Haulage Location: Boundary Enterprise Park, Boundary Lane, South Hykeham, Lincoln, LN6 9NQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	769	6	493052 364770
186	Points of Interest - Commercial Services Name: Upper Witham Idb Depot Location: 40 Meadow Lane, North Hykeham, Lincoln, LN6 9RQ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A19SE (NE)	844	6	494591 365573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	Points of Interest - Manufacturing and Production Name: Tanks Location: LN6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	802	6	492989 364843
187	Points of Interest - Manufacturing and Production Name: Tank Location: LN6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	808	6	492984 364838
187	Points of Interest - Manufacturing and Production Name: Tank Location: LN6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	816	6	492975 364841
187	Points of Interest - Manufacturing and Production Name: Tank Location: LN6 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12SW (W)	824	6	492966 364844
188	Points of Interest - Public Infrastructure Name: Cemetery Location: LN6 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	0	6	493810 365117
189	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	241	6	493906 365360
190	Points of Interest - Public Infrastructure Name: Sewage Works Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13SE (SE)	330	6	494163 364798
190	Points of Interest - Public Infrastructure Name: Sewage Works Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	345	6	494203 364820
191	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	403	6	493820 365566
192	Points of Interest - Public Infrastructure Name: Airstrip Location: LN6 Category: Air Class Code: Airports and Landing Strips Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	477	6	493336 364856
193	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	497	6	494387 365252
194	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: LN6 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	730	6	493329 365754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	Points of Interest - Public Infrastructure Name: Combat Waste Skip Hire Ltd Location: 11 Millbrook Close, North Hykeham, Lincoln, LN6 9TA Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	762	6	493842 365925
195	Points of Interest - Public Infrastructure Name: Combat Waste Skip Hire Ltd Location: 11 Millbrook Close, North Hykeham, Lincoln, LN6 9TA Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18NW (N)	762	6	493842 365925
196	Points of Interest - Public Infrastructure Name: North Hykeham Fire Station Location: North Hykeham Fire Station, Mill Lane, North Hykeham, Lincoln, LN6 9PA Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A19NW (NE)	937	6	494334 365910
197	Points of Interest - Public Infrastructure Name: G B M Waste Location: Mushroom Farm, 10, Boundary Lane, South Hykeham, Lincoln, LN6 9NQ Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A11NE (W)	993	6	492764 365172
198	Points of Interest - Recreational and Environmental Name: Play Area Location: LN6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	276	6	494022 365322
199	Points of Interest - Recreational and Environmental Name: Play Area Location: LN6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	432	6	493884 365581
200	Points of Interest - Recreational and Environmental Name: Play Area Location: LN6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	495	6	493509 365592
201	Points of Interest - Recreational and Environmental Name: Play Area Location: LN6 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	672	6	493418 365744

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
202	Nitrate Vulnerable Zones Name: Lower Witham Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (NW)	0	2	493837 365092

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Lincoln City Council North Kesteven District Council - Environmental Health Department	November 2023 November 2025 October 2025	Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region Environment Agency - Midlands Region	January 2026 January 2026	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	October 2025	Bi-Annually
Local Authority Integrated Pollution Prevention And Control North Kesteven District Council - Environmental Health Department Lincoln City Council	April 2025 January 2015	Variable Variable
Local Authority Pollution Prevention and Controls North Kesteven District Council - Environmental Health Department Lincoln City Council	April 2025 January 2015	Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Lincoln City Council North Kesteven District Council - Environmental Health Department	January 2015 June 2025	Variable Variable
Nearest Surface Water Feature Ordnance Survey	November 2025	
Pollution Incidents to Controlled Waters Environment Agency - Midlands Region Environment Agency - Anglian Region	December 1999 September 1999	
Historical Prosecutions Environment Agency, Anglian Region	March 2013	Not Applicable
Registered Radioactive Substances Environment Agency - Anglian Region Environment Agency - Head Office	May 2023 May 2023	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	July 2025	Quarterly
Water Abstractions Environment Agency - Anglian Region Environment Agency - Midlands Region	January 2026 January 2026	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	August 2025	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	June 2025	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	January 2026	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2025	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2025	Annually
Water Framework Directive - Surface Waters Environment Agency - Head Office	July 2025	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2025	Bi-Annually
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	November 2025	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	October 2025	Bi-Annually
Local Authority Landfill Coverage Lincoln City Council Lincolnshire County Council North Kesteven District Council - Environmental Health Department	February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lincoln City Council Lincolnshire County Council North Kesteven District Council - Environmental Health Department	October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2025	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Lincoln City Council Lincolnshire County Council - Highways and Planning Department North Kesteven District Council - Planning Department	April 2023 January 2023 May 2023	Variable Variable Variable
Planning Hazardous Substance Consents Lincoln City Council North Kesteven District Council - Planning Department Lincolnshire County Council - Highways and Planning Department	August 2022 August 2022 January 2023	Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	December 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2025	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2025	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	December 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	November 2025	Quarterly
Points of Interest - Commercial Services PointX	March 2026	Quarterly
Points of Interest - Education and Health PointX	March 2026	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2026	Quarterly
Points of Interest - Public Infrastructure PointX	March 2026	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2026	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	September 2025	Bi-Annually
Areas of Adopted Green Belt Lincoln City Council North Kesteven District Council	July 2025 July 2025	Quarterly Quarterly
Areas of Unadopted Green Belt Lincoln City Council North Kesteven District Council	July 2025 July 2025	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2025	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	January 2026	Bi-Annually
Marine Nature Reserves Natural England	February 2026	Bi-Annually
National Nature Reserves Natural England	January 2026	Bi-Annually
National Parks Natural England	September 2025	Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 February 2026	Annually
Ramsar Sites Natural England	February 2026	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2025	Bi-Annually
Special Areas of Conservation Natural England	January 2026	Bi-Annually
Special Protection Areas Natural England	November 2025	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	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	North Kesteven District Council - Environmental Health Department District Council Offices, Kesteven Street, Sleaford, Lincolnshire, NG34 7EF	Telephone: 01529 414155 Fax: 01529 413956 Website: www.n-kesteven.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	Lincolnshire County Council 4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN	Telephone: 01522 552222 Fax: 01522 552288 Email: PublicRelations@lincolnshire.gov.uk Website: www.lincolnshire.gov.uk
6	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
7	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 Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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

APPENDIX C

CONTAMINATION RESULTS



ALS Laboratories (UK) Limited
Torrington Avenue
Coventry
CV4 9GU

T: +44 (0)24 7642 1213
www.alsenvironmental.co.uk

Mr Ward
Cemetery Development Services
Ltd (CDS Group)
Building 51
Wrest Park
Silsoe
Bedford MK45 4HS
Bedfordshire

02 March 2026

Test Report: COV/2949930/2026

Dear Mr Ward

Analysis of your sample(s) submitted on 11 February 2026 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0) 2476 421213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, or to arrange container delivery or sample collection or information on our drop-off locations please contact Customer Services.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

Name: K. Poole

Title: Inorganics Team Leader



1314



EMS675527

OHS 542058



This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No.02391955.
Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU.

Report Summary

ANALYSED BY

Mr Callum Ward
Cemetery Development Services
Ltd (CDS Group)
Building 51
Wrest Park
Silsoe
Bedford
Bedfordshire



Date of Issue: **02 March 2026**

Report Number: **COV/2949930/2026**

Issue **1**

This issue replaces
all previous issues

Job Description: Master Prices 2025

Job Location: North Hykeham

Number of Samples
included in this report **3**

Job Received: **11 February 2026**

Number of Test Results
included in this report **66**

Analysis Commenced: **12 February 2026**

Signed:

A handwritten signature in black ink, appearing to read 'K. Poole'.

Name: **K. Poole**

Date: **02 March 2026**

Title: **Inorganics Team Leader**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled. Information supplied by the customer may affect the validity of results.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This test report is not a statement of conformity to any specification or standard.

This communication has been sent to you by ALS Laboratories (UK) Limited. Registered in England and Wales. Registration No. 02391955.

Registered Office: ALS Laboratories (UK) Limited, Torrington Avenue, Coventry, CV4 9GU. (c) ALS Laboratories (UK) Limited 2026. All rights reserved. We, ALS Laboratories (UK) Limited, are the owner of all copyright in this report. You must not copy, reproduce, amend or adapt this report, its contents or any format in which it is delivered without our prior written agreement. If you copy, reproduce, amend, or adapt this report in any way without our agreement you will be liable for any damage or loss to us. In the event of a dispute the copy of the report held by us shall be the reference copy.

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2949930/2026**

Laboratory Number: **25998258**

Issue **1**

Sample **1** of **3**

Sample Source: **Cemetery Development Services Ltd (CDS Group)**

Sample Point Description:

Sample Description: **WLS103**

Sample Matrix: **Ground Water**

Sample Date/Time: **11 February 2026 08:30**

Sample Received: **11 February 2026**

Analysis Complete: **02 March 2026**

Test Description	Result	Units	Completed	Accreditation	Method
Clostridium Perfringens, Conf	0	cfu/100ml	13/02/2026	Y Cov	W8
pH	7.4	pH units	13/02/2026	Y Cov	WAS039
Conductivity- Electrical 20C	1140	uS/cm	13/02/2026	Y Cov	WAS039
Ammonium as NH ₄ , Low Level	<0.08	mg/l	25/02/2026	Y Cov	WAS067
Nitrate as N	0.8	mg/l	20/02/2026	N Cov	WAS036
Nitrite as N	<0.08	mg/l	20/02/2026	N Cov	WAS036
Nitrogen, Total Oxidised as N	0.8	mg/l	20/02/2026	N Cov	WAS036
Sulphate as SO ₄	261	mg/l	20/02/2026	N Cov	WAS036
Dissolved Oxygen, Fixed	3.8	mg/l	13/02/2026	Y Cov	WAS052
BOD + ATU (5 day)	4	mg/l	17/02/2026	Y Cov	WAS001
COD (Total)	219	mg/l	13/02/2026	Y Cov	WAS040
Formaldehyde	<0.029	mg/l	14/02/2026	N Cov	WAS030
Calcium, filter as Ca (mg/l)	144	mg/l	21/02/2026	Y Cov	WAS076
Chlorine, Total	<0.10	mg/l	24/02/2026	N Cov	WAS075
Clostridium Perfringens, Pres	0	cfu/100ml	13/02/2026	Y Cov	W8
Enterococci pres Low dil	0	cfu/100ml	15/02/2026	N Cov	W58
Iron, filter as Fe (mg/l)	<0.020	mg/l	21/02/2026	Y Cov	WAS076
Magnesium, filter as Mg (mg/l)	30.0	mg/l	21/02/2026	Y Cov	WAS076
Phosphorus, filter as P (mg/l)	<0.016	mg/l	21/02/2026	Y Cov	WAS076
Potassium, filter as K (mg/l)	1.26	mg/l	21/02/2026	Y Cov	WAS076
Sodium, filter as Na (mg/l)	61.5	mg/l	21/02/2026	Y Cov	WAS076
Total Organic Carbon	6.26	mg/l	28/02/2026	Y S	SUBCON

Analyst Comments for 25998258:

This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH₄, Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:



Name: **K. Poole**

Date: **02 March 2026**

Title: **Inorganics Team Leader**

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2949930/2026**

Laboratory Number: **25998259**

Issue **1**

Sample **2** of **3**

Sample Source: **Cemetery Development Services Ltd (CDS Group)**

Sample Point Description:

Sample Description: **WLS106**

Sample Matrix: **Ground Water**

Sample Date/Time: **11 February 2026 08:45**

Sample Received: **11 February 2026**

Analysis Complete: **02 March 2026**

Test Description	Result	Units	Completed	Accreditation	Method
Clostridium Perfringens, Conf	1	cfu/100ml	13/02/2026	Y Cov	W8
pH	7.2	pH units	13/02/2026	Y Cov	WAS039
Conductivity- Electrical 20C	406	uS/cm	13/02/2026	Y Cov	WAS039
Ammonium as NH ₄ , Low Level	<0.08	mg/l	25/02/2026	Y Cov	WAS067
Nitrate as N	1.0	mg/l	20/02/2026	N Cov	WAS036
Nitrite as N	<0.08	mg/l	20/02/2026	N Cov	WAS036
Nitrogen, Total Oxidised as N	1.0	mg/l	20/02/2026	N Cov	WAS036
Sulphate as SO ₄	26.9	mg/l	20/02/2026	N Cov	WAS036
Dissolved Oxygen, Fixed	3.5	mg/l	13/02/2026	Y Cov	WAS052
BOD + ATU (5 day)	2	mg/l	17/02/2026	Y Cov	WAS001
COD (Total)	435	mg/l	12/02/2026	Y Cov	WAS040
Formaldehyde	<0.029	mg/l	14/02/2026	N Cov	WAS030
Calcium, filter as Ca (mg/l)	55.5	mg/l	21/02/2026	Y Cov	WAS076
Chlorine, Total	<0.10	mg/l	24/02/2026	N Cov	WAS075
Clostridium Perfringens, Pres	1	cfu/100ml	13/02/2026	Y Cov	W8
Enterococci pres Low dil	15	cfu/100ml	15/02/2026	N Cov	W58
Iron, filter as Fe (mg/l)	0.030	mg/l	21/02/2026	Y Cov	WAS076
Magnesium, filter as Mg (mg/l)	12.9	mg/l	21/02/2026	Y Cov	WAS076
Phosphorus, filter as P (mg/l)	<0.016	mg/l	21/02/2026	Y Cov	WAS076
Potassium, filter as K (mg/l)	1.74	mg/l	21/02/2026	Y Cov	WAS076
Sodium, filter as Na (mg/l)	29.5	mg/l	21/02/2026	Y Cov	WAS076
Total Organic Carbon	10.1	mg/l	27/02/2026	Y S	SUBCON

Analyst Comments for 25998259:

This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH₄, Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:



Name: **K. Poole**

Date: **02 March 2026**

Title: **Inorganics Team Leader**

Certificate of Analysis

ANALYSED BY



Report Number: **COV/2949930/2026**

Laboratory Number: **25998260**

Issue **1**

Sample **3** of **3**

Sample Source: **Cemetery Development Services Ltd (CDS Group)**

Sample Point Description:

Sample Description: **WLS108**

Sample Matrix: **Ground Water**

Sample Date/Time: **11 February 2026 09:00**

Sample Received: **11 February 2026**

Analysis Complete: **02 March 2026**

Test Description	Result	Units	Completed	Accreditation	Method
Clostridium Perfringens, Conf	0	cfu/100ml	13/02/2026	Y Cov	W8
pH	6.9	pH units	13/02/2026	Y Cov	WAS039
Conductivity- Electrical 20C	588	uS/cm	13/02/2026	Y Cov	WAS039
Ammonium as NH ₄ , Low Level	<0.08	mg/l	25/02/2026	Y Cov	WAS067
Nitrate as N	5.6	mg/l	20/02/2026	N Cov	WAS036
Nitrite as N	<0.08	mg/l	20/02/2026	N Cov	WAS036
Nitrogen, Total Oxidised as N	5.6	mg/l	20/02/2026	N Cov	WAS036
Sulphate as SO ₄	43.4	mg/l	20/02/2026	N Cov	WAS036
Dissolved Oxygen, Fixed	3.5	mg/l	13/02/2026	Y Cov	WAS052
BOD + ATU (5 day)	4	mg/l	17/02/2026	Y Cov	WAS001
COD (Total)	226	mg/l	13/02/2026	Y Cov	WAS040
Formaldehyde	<0.029	mg/l	14/02/2026	N Cov	WAS030
Calcium, filter as Ca (mg/l)	89.2	mg/l	21/02/2026	Y Cov	WAS076
Chlorine, Total	<0.10	mg/l	24/02/2026	N Cov	WAS075
Clostridium Perfringens, Pres	0	cfu/100ml	13/02/2026	Y Cov	W8
Enterococci pres Low dil	210	cfu/100ml	15/02/2026	N Cov	W58
Iron, filter as Fe (mg/l)	0.044	mg/l	21/02/2026	Y Cov	WAS076
Magnesium, filter as Mg (mg/l)	14.1	mg/l	21/02/2026	Y Cov	WAS076
Phosphorus, filter as P (mg/l)	0.021	mg/l	21/02/2026	Y Cov	WAS076
Potassium, filter as K (mg/l)	0.423	mg/l	21/02/2026	Y Cov	WAS076
Sodium, filter as Na (mg/l)	34.9	mg/l	21/02/2026	Y Cov	WAS076
Total Organic Carbon	18.9	mg/l	28/02/2026	Y S	SUBCON

Analyst Comments for 25998260:

This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH₄, Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.

This issue replaces all previous issues

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.

See A/C = See Analyst Comment I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:



Name: **K. Poole**

Date: **02 March 2026**

Title: **Inorganics Team Leader**

**ANALYST COMMENTS FOR REPORT COV/2949930/2026****Issue 1**This issue replaces
all previous issuesDate of Issue: **02 March 2026**

Sample No	Analysis Comments
25998258	This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH ₄ , Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.
25998259	This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH ₄ , Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.
25998260	This sample has been analysed for Nitrite as N, Nitrate as N, Ammonium as NH ₄ , Low Level, Nitrogen, Total Oxidised as N, Total Chlorine, Enterococci pres Low dil outside recommended stability times. It is therefore possible that the results provided may be compromised.

Signed:		Name: K. Poole	Date: 02 March 2026
		Title: Inorganics Team Leader	



DETERMINAND COMMENTS FOR REPORT COV/2949930/2026

ISSUE 1

Date of Issue: 02 March 2026

This issue replaces
all previous issues

Sample No	Description	Determinand	Comments

Signed:		Name: K. Poole	Date: 02 March 2026
		Title: Inorganics Team Leader	

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email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

ALS Environmental Limited
Torrington Avenue
Tilehill
Coventry
West Midlands
CV4 9GU

Attention: Subcon Coventry

CERTIFICATE OF ANALYSIS

Date of report Generation:	28 February 2026
Customer:	ALS Environmental Limited
Sample Delivery Group (SDG):	260224-11
Your Reference:	2949930
Location:	2949930
Report No:	793274
Order Number:	928322

We received 3 samples on Tuesday February 24, 2026 and 3 of these samples were scheduled for analysis which was completed on Saturday February 28, 2026. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Justin Keeton
Business Unit Leader - Land





CERTIFICATE OF ANALYSIS

Validated

SDG: 260224-11
Client Ref.: 2949930

Report Number: 793274
Location: 2949930

Superseded Report:

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32952313	25998258			11/02/2026
32952316	25998259			11/02/2026
32952319	25998260			11/02/2026

Only received samples which have had analysis scheduled will be shown on the following pages.



CERTIFICATE OF ANALYSIS

Validated

SDG: 260224-11
Client Ref.: 2949930

Report Number: 793274
Location: 2949930

Superseded Report:

Results Legend

- X

 Test
- N

 No Determination Possible

Sample Types -

- S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)	32952313	32952316	32952319
Customer Sample Reference	25998258	25998259	25998260
AGS Reference			
Depth (m)			
Container	STL13 (1000ml) (ALS)	STL13 (1000ml) (ALS)	STL13 (1000ml) (ALS)
Sample Type	GW	GW	GW
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 3	X X X



CERTIFICATE OF ANALYSIS

Validated

SDG: 260224-11
Client Ref.: 2949930

Report Number: 793274
Location: 2949930

Superseded Report:

Table of Results - Appendix

Method No	Description
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).



CERTIFICATE OF ANALYSIS

Validated

SDG: 260224-11
Client Ref.: 2949930

Report Number: 793274
Location: 2949930

Superseded Report:

Test Completion Dates

Lab Sample No(s)	32952313	32952316	32952319
Customer Sample Ref.	25998258	25998259	25998260
AGS Ref.			
Depth			
Type	Ground Water	Ground Water	Ground Water
Total Organic and Inorganic Carbon	28-Feb-2026	27-Feb-2026	28-Feb-2026



CERTIFICATE OF ANALYSIS

SDG: 260224-11
Client Ref: 2949930

Report Number: 793274
Location: 2949930

Superseded Report:

Appendix

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur - e.g volatile mercury.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

General

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

20. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

If during the search of the two 'pinch' samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term 'trace asbestos identified' is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Potentially respirable fibres are identified by using a Phase Contrast Microscope.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.