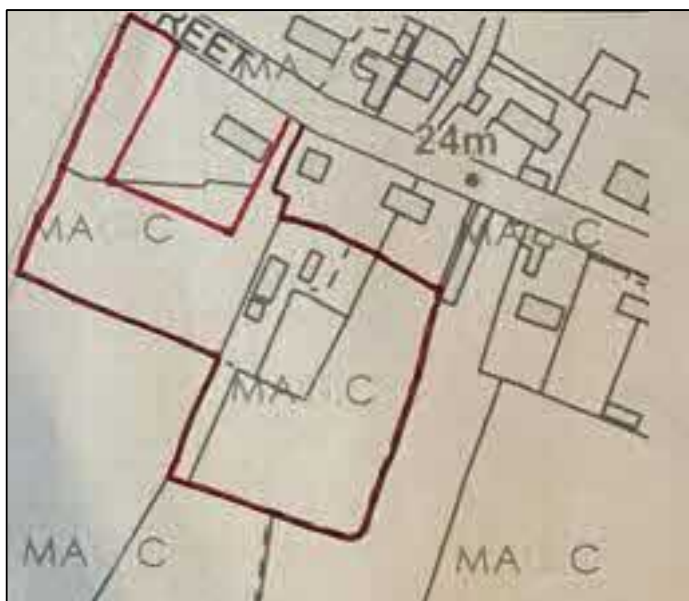


PROPOSED RESIDENTIAL DEVELOPMENT  
AT  
ORCHID MEADOWS, NETHERGATE STREET, HOPTON,  
NORFOLK, IP22 2QZ  
FOR  
MR TOBY THOMPSON



GEOENVIRONMENTAL DESK STUDY REPORT  
REPORT NUMBER 15874DS

JUNE 2021

## DOCUMENT CONTROL PAGE

Report details	
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Report prepared By	Report checked by
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Use and reliance
This report has been prepared for the sole internal use and reliance of Mr Toby Thompson. This report shall not be relied upon by other parties without the express written authority of RSA Geotechnics Ltd. If an unauthorised third party comes into possession of this report they rely on it at their own risk and the authors owe them no duty of care and skill.
Authorisation
Authorisation for the investigation was given by Mr Toby Thomson in an email, dated 27 May 2021.
Limitations
This report considers the proposals for the subject site at the time of issue of the report. Should the scheme change significantly then the implications regarding the geotechnical and geoenvironmental aspects will need consideration relative to the new proposals. RSA Geotechnics Limited have based this report on the results of the desk study, as well as the other sources detailed within the report, which are believed to be reliable. However, RSA Geotechnics Limited cannot and does not guarantee the authenticity or reliability of the third-party information that it has relied upon.

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## APPENDICES

- Appendix 1: Risk assessment methodology and legislative background;  
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- Appendix 2: Landmark Envirocheck data search report
- Appendix 3: Landmark ordnance survey map extracts
- Appendix 4: Mining and ground stability datasheet

## 1. INTRODUCTION

Consideration is being given by Mr Toby Thompson to the redevelopment of existing agricultural premises located on a site known as Orchid Meadows, situated on Nethergate Street, Hopton Norfolk, IP22 2QZ. At the time of preparation of this report, no details were known about the proposed scheme. It is understood from informal discussions with the Client that the main structure on the site is to be converted into a single private residential property with surrounding meadows/garden areas, although at the time of the preparation of this report, full details had not been established.

The layout of the site at the time of preparation of this report is shown on drawing number 15874DS/1.

This geoenvironmental report describes a Phase 1 desk study carried out by RSA Geotechnics Limited for Mr Toby Thompson. The scope of the works was as requested verbally by the Client and outlined in RSA Geotechnics Limited's quotation AJS/QUO/7662 dated 27 May 2021 which comprised the following:

- Undertake a reconnaissance survey of the site and desk study review of historical maps and environmental records sourced via the Envirocheck database.
- Provide a report presenting the desk study data, including an outline conceptual model and preliminary qualitative risk assessment.

The purpose of this Phase 1 desk study investigation was to determine past uses of the site and surrounding area to assess potential sources of contamination and determine if a Phase 2 geoenvironmental site investigation was required.

The remit did not include consideration of geotechnical aspects of the scheme.

## 2. SITE SETTING

### 2.1 Site location

The site was located on the southern side of Nethergate Street in the village of Hopton, Suffolk. The site can be located using National Grid Reference TL 988 792. Residential properties extended along both sides of Nethergate Street to the east of the site, with open land to the west and south.

### 2.2 Site description

A reconnaissance visit was undertaken on 17 June 2021 by an engineer from RSA Geotechnics Ltd when the site was found to be in the following condition:

The overall site approximated an inverted 'L' shape with two corridors (western end and central) between the site and Nethergate Street to the north. Access to the site at the time of the visit was gained via the central access (Figure 1). 'Grey Cottage' (Figure 2) was present to the west of the access and to the north of the site, with a further residential property 'The Grannery' to the east of the access.



Figure 1 - Entrance and track leading south from Nethergate Street



Figure 2 - Residential property to north of site (Grey Cottage)

The main body of the site was formed of two rectangular areas, referenced in the following text as 'eastern meadow' and 'western meadow' for purposes of description.

A brick-built barn with flint cladding and a tiled roof was present in the north-western area of the eastern meadow (Figure 3). The Client indicated that historically, this was used for small scale dairy purposes. At the time of the visit there were various domestic items present including a lawnmower, petrol can, paint tins, carpets, sheet insulation and timber.



Figure 3 - Brick/stone barn, north-western area of eastern meadow



Figure 4 - Stables, southern end of barn



Figure 5 - Barn and stables viewed from south



Figure 6 - Sheds, north-western corner of eastern meadow

The southern part of the barn together with adjoining buildings of timber construction were in use as stables (Figures 4 and 5). Two timber sheds were present on the site boundary to the north of the barn (Figure 6), with two further small sheds to the east of these. They contained various items including timber, wire mesh, an electric cement mixer, lawnmower, fuel can, gas heater, gas bottles, a small generator, battery charger, fitness equipment, drums, paint tins and occasional agricultural items. An electric circular saw stood outside of the sheds.

A number of tyres, some with wheels, were present to the east of the sheds (Figure 7).



Figure 7 - Tyres, north-western area of eastern meadow



Figure 8 - Timber sheds, no roof



Figure 9 - Oil drums



Figure 10 - Caravan and barn viewed from south looking north

A terrace of three timber sheds with no roofs was present to the east of the barn. A number of old oil drums were present; these were painted and some had ropes attached, and appeared to have been for equestrian use (Figures 8 and 9). A caravan was present to the south of the barn (Figure 10).

The remainder of the eastern meadow was laid to grass. Various stockpiles/heaps of materials and items were present including timber, scrap metal, wire mesh, old barbeques, 'pit' bikes, wood, pallets, bricks and blocks, agricultural items, tyres, rubber matting, furniture, lawn tractors and a small caravan (Figures 11 to 13). Cars and a motorised horsebox were present in the central area of the meadow (Figure 14).



Figure 11 – Materials and items in eastern meadow area



Figure 12 – Materials and items in eastern meadow area



Figure 13 – Materials and items in eastern meadow area



Figure 14 - Cars and horsebox, eastern meadow area

A bonfire heap was present in the south-western area of the meadow (Figure 15). A small shed, partially collapsed, and a moped, stood at the north-western corner of the meadow (Figure 16). Telegraph poles carried overhead lines across the meadow.



Figure 15 - Bonfire, south-western area of eastern meadow



Figure 16 - Shed and moped, north-western area of eastern meadow



Figure 17 - Eastern meadow, viewed from north-west looking south



Figure 18 - Paddock to south of eastern meadow

The eastern boundary of the meadow had hedgerows and a number of mature trees present, including acers. A paddock stood to the south of the meadow (Figure 18).

There was a break in level of about one to one and a half metres between the western side of the eastern meadow area and the track and western meadow area to the west (Figures 19 and 20).





Figure 19 - Break in level between eastern and western areas



Figure 20 - Break in level between eastern and western areas

The western meadow area generally comprised grassland with a row of small trees (hawthorn?) along its southern side (Figures 21 and 22).



Figure 21 - Western meadow, looking south



Figure 22 - Looking north-east at Grey cottage from south-western corner of western meadow



Figure 23 - Caravan, lodge, gazebo in western meadow area



Figure 24 - Caravan to south of gazebo

An accommodation area comprising a caravan/lodge was present on the eastern side of the area, with a large 'gazebo' structure with decking, seating area, hot-tub and barbeque areas to the south-west of the accommodation (Figures 23 to 28).



Figure 25 – Accommodation area



Figure 26 – Gazebo to south west of accommodation



Figure 27 - Overgrown area, western side of western meadow



Figure 28 - Garden furniture in western meadow

A corridor extended north between the western meadow area and Nethergate Street to the north, with a gate at its northern end (Figures 29 and 30). A number of fridges/freezers and other domestic waste items (pushchair, bicycles) were present at the north-western end of the corridor (Figure 31).



Figure 29 - Western corridor looking north



Figure 30 - Gate at northern end of western access



Figure 31 - White goods and other domestic waste,  
northern end of western access

### 3. DESK STUDY

#### 3.1 Sources of information

Historical Ordnance Survey maps and data from a search of Public Registers were obtained from the Landmark Information Group Limited using their Envirocheck product (reference number 280187841\_1\_1). This included information from organisations such as the Environment Agency, Local Authority, British Geological Survey, Natural England and others. The maps included a range of historic and modern Ordnance Survey maps sourced at a range of scales.

It should be noted that the following text does not generally consider features beyond a search radius of 250 m, since based on their distance from the site, a risk from these features was not generally identified. However, for further details outside this 250 m radius a full list is given in Appendix 2.

#### 3.2 Historical land use

The historical land use of the site and immediate surrounding area has been assessed by reference to the Ordnance Survey maps in the Envirocheck Report, as detailed in Table 3.2. The table does not describe an exhaustive description of historic events but highlights pertinent potential contaminative sources within a 250 m radius of the site.

The earlier maps appear to have ‘shifted’ placing the site outline slightly out of the true position. The following description takes this into account, and where features appear to be within the site boundary on the earlier maps, they have been excluded from the site in the text.

Table 3.2 – Historical land use		
Date	On site	Surrounding area
1883 - 1885	Undeveloped. Footpath in eastern part of site. Possible that smithy immediately to the east of the site encroaches within the footprint of the site.	Site lies in a mostly undeveloped arable area. Some houses in the vicinity along Fen Street and Nethergate Street. Houses were present in the area between Nethergate Street and the northern boundary of the site. Wells were noted associated with several of these houses. The closest well was located immediately to the north of the site in the garden of The Cottages, Nethergate Street. A smithy was located immediately to the E of the site. It is possible that this encroaches within the eastern boundary of the site. Area of Rough pasture immediately to the west of the site. This is marked as ‘Floods’ and is crossed with drains and/or streams. An area of marsh was located 200 m to SW. Clay pits 160 m S, 180 m E, and 210 m NW of site.

Table 3.2 – Historical land use continued		
Date	On site	Surrounding area
1883 – 1886	No significant changes	No significant changes
1884 – 1885	No significant changes	No significant changes
1905	Route of footpath changed, but no other significant changes	No significant changes
1904 - 1905	No significant changes	No significant changes
1905	No significant changes	No significant changes. Some additional buildings shown on plot on northern side of Nethergate Street.
1952 – 1953	No significant changes	Development commenced to E of site with houses along Nethergate Street.
1953	No significant changes	No significant changes
1958	No significant changes	Smithy no longer shown. No other significant changes
1976	Small outhouse associated with Grey Cottage is situated within site boundary in area considered to be an access drive in NE of site.	Clay pit to S of site no longer shown; clay pit to E of site much reduced in size. Pit to NW of site marked 'disused' but had extended over a larger area than previously shown. Robson's Farm 50 m to NE redeveloped with additional buildings and access road. Further development with houses built 75 m NW.
1983 – 1985	No significant changes	Pit to E of site no longer shown. No other significant changes
1995	No significant changes	No significant changes
1999 (Aerial photo)	Structure situated in centre of site.	No significant changes
2000	No significant changes	No significant changes
2003	No significant changes	No significant changes
2006	No significant changes	No significant changes
2009	No significant changes	No significant changes
2013	No significant changes	No significant changes
2016	No significant changes	No significant changes
2021	Additional structures associated with structure in centre of site.	No significant changes

Aerial photographs of the site dated 1945 to 2020 are publicly available. Inspection of these photographs gleaned the following information regarding the site and immediate environs:

The 1945 photograph confirmed the findings of the maps at that time. The 1985 photo was unclear. The 1999 photo showed a number of features to the north-west and west of the barn, including possibly a storage container and a vehicle. At this time, Grey Cottage and the subject site appeared to be possibly under the same ownership, based on the absence of obvious boundaries. By 2007, a further structure was located to the north-east of the barn, with vegetation to the north and east. A possible caravan/container was situated to the west of the structure, but was not present from 2008 onwards. By 2018, the barn had been extended with buildings on the southern side of the barn, and sheds to the north.

A terrace of three small pens, with a surrounding enclosure (possible animal pens?) were located to the east of the barn. Immediately to the west of the barn was a vegetated area with a number of unidentifiable objects/materials, including possibly a car. In this photograph, some form of excavation or other earthworks could be seen in the south-western quadrant of the eastern field. A further possible caravan/container was located within this area on the 2019 and 2020 photos, although these images were out of focus.

Inspection of the aerial photos did not reveal the growing of crops on the site. It appeared that animals may have been kept on the site.

Trees were recorded around the field boundaries from the earliest available images. The 1999, 2006, 2007 and 2008 photographs showed mature trees close to the north-west face of the main structure on site. The 2018 photo showed the trees to have been cleared.

### 3.3 Public Register data

Public Register data and other information was received as part of the Envirocheck Report. This included information from the Environment Agency, Local Authority, British Geological Survey, Natural England and several other sources. A full list of the data obtained can be found in Appendix 2 of this report. It should be noted that the positions of symbols on the environment map supplied are not always very accurate and that judgement should be used in locating each item. It should also be noted that the following summary is generally restricted to a search radius of 250 m on the basis that beyond this distance a low to negligible risk is identified. The environmental information is summarised in Table 3.3.

Table 3.3 – Summary of environmental data from Envirocheck Report			
Agency, authorisations & controls			
Subject	On site	Within 250 m	Details/Remarks
Discharge Consents	0	1	A discharge consent was in place between 1990 and 1998 for the discharge of storm/emergency overflow of freshwater into the tributary of the River Little Ouse, 46 m N of site.
Waste			
Subject	On site	Within 250 m	Details/Remarks
Historical Landfill Sites	0	1	128 m E of site. No other details supplied.
Local Authority Recorded Landfill Sites	0	1	151 m E of site. Adjacent to 12 Nethergate Street; reported as closed.
Hazardous substances			
No entries in this category within 250 m of the site			

**Table 3.3 – Summary of environmental data from Envirocheck Report continued**

Geological			
Subject	Details/Remarks		
BGS 1:50,000 Sheet 175 'Diss' and BGS Online Geology Viewer	The site lies within the flood plain of the Little Ouse. Superficial deposits beneath the site comprise Head Deposits, Ingham Sand and Gravel Formation, and Lowestoft Formation – Diamicton. Alluvium outcrops close to the western boundary of the site. The solid geology beneath the whole of the site is indicated to be White Chalk Subgroup.		
BGS Boreholes*	There were no publicly available borehole records within 250 m of the site; the closest boreholes (TL97NE15 and TL97NE21) were listed approximately 358 m N and 467 m E of the site and revealed granular deposits to depths of about 12 and 17 m overlying the White Chalk Subgroup. The boreholes were completed at depths of between 41 and 45 m and did not fully penetrate the chalk.		
BGS Recorded Mineral Sites*	Hopton Pit 193 m S and 215 m E of site – for 'common clay and shale' – Lowestoft Formation. Both pits described as 'ceased'.		
Coal Mining Affected Areas	'in an area that might not be affected by Coal Mining'		
Mining instability; Man-Made Mining Cavities; Natural Cavities.	No entries in these categories.		
Non-Coal Mining Areas of Great Britain*	Rare risk		
Ground stability hazard potential*			
Subject	On site	Within 250 m	Details/Remarks
Collapsible Ground	Very Low	No Hazard	No Hazard recorded 18 m W
Compressible Ground	No Hazard	Moderate	Moderate recorded 18 m W
Ground Dissolution	Low to Very Low	Low	Low recorded 132 m W and 199 m NE
Landslide	Very Low	No Hazard	No Hazard recorded 23 m SW
Running Sand	Very Low	No Hazard to Low	Low recorded 18 m W and No Hazard recorded 23 m SW
Shrinking or Swelling Clay	No Hazard to Low	No Hazard	No Hazard recorded 84 m NW

Table 3.3 – Summary of environmental data from Envirocheck Report continued			
BGS Estimated soil chemistry			
Subject	Details/Remarks		
Arsenic	<15 mg/kg		
Cadmium	<1.8 mg/kg		
Chromium	20 to 60 mg/kg		
Lead	<100 mg/kg		
Nickel	<15 mg/kg		
Radon Potential – Radon Affected Areas (NGIS*)	Less than 1% of homes estimated to be at or above Action Level		
Radon Potential – Radon Protection Measures (NGIS*)	No radon protection measures considered necessary (BGS)		
Hydrogeological, hydrological, flooding			
Subject	On site	Within 250 m	Details/Remarks
Water Abstractions (Groundwater/ Surface Water)	0	0	Nearest abstraction 370 m NW of the site: for the use of general farming and domestic.
Source Protection Zones	SPZ 3 on site		n/a
Extreme Flooding or Flooding from Rivers or Sea without Defences	Yes	Yes	The site is described as being at risk of flooding and extreme flooding. The risk is only along the western boundary of the site.
Areas Benefiting from Flood Defences?	No entry	No entry	n/a
Subject	Details/Remarks		
Groundwater Vulnerability	High – Productive Bedrock Aquifer, Productive Superficial Aquifer.		
Bedrock Aquifer Designations	Principal Aquifer [White Chalk Subgroup]		
Superficial Aquifer Designations	Secondary Aquifer - A [Ingham Sand and Gravel Formation] Secondary Aquifer (Undifferentiated) [Lowestoft Formation – Diamicton; Head Deposits]		



Table 3.3 – Summary of environmental data from Envirocheck Report continued			
Subject	Details/Remarks		
Groundwater Vulnerability – Soluble Rock Risk	Significant Risk – Low Possibility		
Nearest Surface Water Feature	The ditch/stream along the western boundary of the site, NGR 598728, 279184		
River Quality	No data within 250 m		
BGS Groundwater Flooding Susceptibility	Potential for groundwater flooding to occur at surface on the site. Potential for groundwater flooding of property situated below ground level identified on the site.		
Risk of Flooding from Surface Water	Potential for groundwater flooding to occur on the site and within 250 m of the site. There is a High risk (30-year return), Medium risk (100-year return) and Low risk (1000-year return) of flooding in a band orientated NE-SW across the western portion of the site.		
Industrial land use			
Subject	On site	Within 250 m	Details/Remarks
Contemporary Trade Directory Entries	None	2	Plastic Piling Limited (Inactive) a plastics extrusion company was located 22 m N of the site. A laboratory equipment supplies company (Inactive) was located 155 m E of the site.
Fuel Station Entries	None	none	None
Sensitive land use			
Subject	On site	Within 250 m	Details/Remarks
Environmentally Sensitive Areas	1		Breckland (decommissioned) – designated by Natural England.
Nitrate Vulnerable Zones	Yes		Ely Ouse and Cut-off channel Nitrate Vulnerable Zone for surface water.
Sites of Special Scientific Interest	None	Yes	Weston Fen located 89 m SW is designated a local wildlife site, a special area of conservation, a site of special scientific interest and a water framework directive.
Special Areas of Conservation	None	Yes	Waveney and Little Ouse Valley Fen 89 m SW is designated a special area of conservation.
* National Geoscience Information Service			

### 3.4 Environmental site reconnaissance visit

The site appeared generally well organised, with no evidence of spills or visible contamination. No obvious evidence of asbestos was noted either within the existing structures or stockpiled on site. Informal discussions with the Client did not disclose the former use of asbestos containing materials on the site. The Client also confirmed that no oil tanks were present on site, and that there had been no industrial past use, except historically his father used to keep Jersey cows for the purpose of milking.

Various areas of the site were considerably overgrown, and it was not possible to fully inspect all areas. There was the potential for invasive species to be present, but none were observed during the site visit.

The site appeared to be essentially greenfield, but the site reconnaissance visit encountered the following potential contaminative sources:

- piles of materials including bonfire.
- paint tins, drums, fuel canisters and other items from sheds and barn.
- cars, motorised horsebox, and other current and former vehicles.
- break in slope between the eastern and western site areas potentially indicative of earthworks/reprofiling although the Client stated he is not aware of any significant earthworks having been undertaken on the site.
- possible excavation or other earthworks in the south-western quadrant of the eastern meadow shown in the 2018 aerial photograph.

### 3.5 Summary of desk study

A summary of the salient points from the desk study review is provided in Table 3.5.

Table 3.5 – Summary of key points identified by desk study research and site inspection	
Subject	Relevant detail
Site History	Earliest records of 1883 – 1885 showed the site to be undeveloped within a mostly rural setting. A smithy was located immediately to the east of the site, possibly encroaching to within the site boundary. A small outhouse was placed within the site boundary by 1976, and the main part of the existing structure was on site by 1999. At this time, small structures/vehicles/container were noted in the vicinity of the main structure. A further structure was in place by 2007, and extensions were placed by 2008. The site appeared to have been used for animals. The surrounding area remained predominantly arable, with residential premises in the vicinity. Clay pits were recorded within 250 m of the site.
Geological Units and Aquifer Designations	Bedrock: White Chalk Subgroup - Principal Aquifer Superficial: Secondary Aquifer - A [Ingham Sand and Gravel Formation] Secondary Aquifer (Undifferentiated) [Lowestoft Formation – Diamicton; Head Deposits]
Identified potential sources of on-site contaminants	Made ground associated with previous phases of construction and demolition. Potential ACM within the fabric of the existing buildings. Area of unidentified materials to west of main barn in 2018 aerial photograph. Possible chemicals stored in existing outbuildings. Previous vehicular use on site. Former use of site for animals.
Identified potential sources of off-site contaminants	Off-site historic landfill sites, former pits and infilled ground (unlikely to have impacted the site). Possible contamination from nearby plastics extrusion company to N of site and historic smithy to east of site (unlikely to have impacted the site).
Other key information	No water abstractions within 250 m of the site; a discharge consent for fresh water from a sewage works was recorded 46 m N of site. Site and surrounding area lie within a SPZ3, and a watercourse (ditch/stream) flows along the western site boundary. Potential for groundwater flooding to occur at surface and below ground on site. The soils beneath the site were of high combined vulnerability, with a Productive Bedrock Aquifer and a Productive Superficial Aquifer. There is a risk from 'Flooding and Extreme Flooding from Rivers or Sea without Defences' along the western boundary of the site. This report does not consider flood risk, and these aspects are not discussed further. The remit did not include a survey for invasive, noxious or otherwise problematic plant species to be present; none were observed during the site reconnaissance however their presence cannot be discounted at this stage. Ecological aspects will need to be considered prior to development. Geotechnical aspects will need suitable consideration prior to development given the anticipated variation in ground conditions across the site, the presence of shrinkable soils and former trees in the vicinity of the structure, as well as existing various trees and hedges around site.

### 3.6 Outline conceptual model

#### 3.6.1 Introduction

A conceptual model represents the characteristics of the site that show the possible relationship between sources (contaminants), pathways and receptors (or targets). The following outline conceptual model has been based on the results of the desk study and environmental reconnaissance of the site.

In order to classify the anticipated risk associated with the proposed development the classification system defined in Table A shown in Appendix 1 has been adopted (from CIRIA C552). The level of risk was determined by the product of the potential consequence (minor, mild, medium, severe) of the contaminant hazard and probability of it occurring (unlikely, low likelihood, likely, high likelihood). A risk level has been assigned to each possible pollutant linkage.

### 3.6.2 Potential sources, pathways and receptors

The potential sources, pathways and receptors identified by the desk study data are summarised in Table 3.6.2.

Table 3.6.2 – Potential sources, pathways and receptors	
Potential sources	
On site:	Off site:
<p>Made ground associated with previous phases of construction, demolition and earthworks.</p> <p>Possible ACM within the fabric of the existing buildings.</p> <p>Piles of materials, including bonfire, and materials to west of barn identified in 2018 aerial photograph.</p> <p>Chemicals/paints/fuels stored in small quantities in existing barn and sheds.</p> <p>Previous and current vehicular use on site.</p> <p>Sulphate and acidic pH contents in the made ground and natural deposits.</p> <p>Ground gas from made ground.</p>	<p>Off-site historic landfill sites, former pits and infilled ground.</p> <p>Possible migration of contamination from nearby plastics extrusion company to N of site and historic smithy to east of site.</p> <p>Ground gas from made ground and other off-site sources.</p>
Potential pathways	
<p>Direct contact</p> <p>Inhalation</p> <p>Ingestion</p> <p>Leaching and migration via groundwater</p> <p>Migration via permeable soils</p> <p>Uptake by plants.</p>	
Potential receptors	
<p>End users</p> <p>Groundworkers</p> <p>Controlled Waters</p> <p>Off-Site receptors</p> <p>Building materials</p> <p>Vegetation.</p>	

### 3.6.3 Potential pollutant linkages

The considered potential source-pathway-receptor linkages for the site and their perceived level of associated risk are summarised in Table 3.6.3A.

Table 3.6.3A – Potential relevant pollutant linkages							
Source	Contaminants	Pathway	Receptor	Probability	Consequence	Risk classification	Comments
<p>Made ground associated with previous phases of construction, demolition and earthworks.</p> <p>Piles of materials, including bonfire, and former stockpile identified in 2018 aerial photograph.</p> <p>Possible impact from adjacent off-site industries (Smithy).</p> <p>Chemicals/paints/fuels stored in small quantities in existing barn and sheds.</p>	<p>Heavy metals, PAH, TPH, VOC, SVOC</p>	Direct contact	End users	Likely	Medium	Moderate	<p>Risk to off-site receptors only present via mobilisation of dust or migration of site soils via vehicles leaving site.</p>
		Ingestion	Groundworkers	Likely	Minor	Low	
		Inhalation	Off-site receptors	Likely	Minor	Low	
		Leaching and migration via groundwater or surface water	Controlled Waters	Likely	Medium	Moderate	
		Off-site receptors	Unlikely	Low	Low	<p>The potential is present however no sources have been identified that are likely to result in significant impact to off-site receptors.</p>	
	Plant uptake	Vegetation	Likely	Minor	Low		
	Direct contact	Building materials	Likely	Minor	Low		
	Ground gas, vapour	Inhalation	End users Groundworkers	Likely Likely	Medium Medium	Moderate Moderate	<p>Although a Moderate worst case risk has been designated, no significant sources identified to date.</p>
	Sulphate and pH	Direct contact	Building materials	Likely	Medium	Moderate	

**Table 3.6.3A – Potential relevant pollutant linkages continued**

Source	Contaminants	Pathway	Receptor	Probability	Consequence	Risk classification	Comments
Previous and current vehicle uses on site.	Hydrocarbons (TPH, PAH, BTEX, VOC, SVOC, MTBE, Lead)	Direct contact	End users	Likely	Medium	Moderate	Impact likely to be limited.
		Ingestion	Groundworkers	Likely	Severe	High	
		Inhalation	Off-site receptors	Likely	Medium	Moderate	
		Leaching and migration via groundwater or permeable soils	Controlled Waters Off-site receptors	Likely Likely	Medium Minor	Moderate Low	Potential is present however impact likely to be very low unless significant incidents have occurred.
		Direct contact	Building materials	Likely	Minor	Low	Fuels and oils can impact potable water supply if present.
Off-site historic landfill sites, former pits and infilled ground, made ground and organic alluvial soils	Ground gas	Inhalation	End users Groundworkers	Likely Likely	Medium Medium	Moderate Moderate	Identified off-site sources considered unlikely to affect the subject site based on distance and no identified preferential pathways for migration.
Natural deposits	Sulphate and pH	Direct contact	Building materials	Likely	Medium	Moderate	

Assessment of asbestos and invasive plant species is not compatible with the above risk assessment matrix, so these items have been given separate consideration in Table 3.6.3B.

Table 3.6.3B – Risk associated with asbestos and invasive plants	
Source/Contaminant	Associated impacts/Issues
Asbestos	No asbestos or asbestos containing materials (ACM) were observed during the site walkover, and the Client was not aware of such materials having been used on the site. However, on a precautionary basis it is recommended that an asbestos survey of the buildings should be undertaken by a suitably competent person to identify any asbestos containing materials, which should then be suitably removed from site with full duty of care, prior to any demolition or refurbishment work. Asbestos can also potentially be present in made ground and disturbed ground as the provenance of such materials is commonly unknown.
Invasive Plant Species	No obvious signs of invasive or problematic plant species such as Japanese Knotweed or Giant Hogweed were noted during the site reconnaissance visit, but due to the size of the site and the presence of some vegetated areas, there is the potential for such plants to be present on site. A low risk was therefore identified for such plants.



## 4. RECOMMENDATIONS

Based on the findings of the desk study and site reconnaissance, no indicators of gross contaminative impact have been identified for the site, which could be considered largely 'greenfield' and previously undeveloped. However, limited potential sources of contamination have been identified, such as the contents of the barn and sheds, the current and previous vehicular use of the site, the presence of engine powered machinery (e.g. lawnmowers, generator, motorcycles), contemporary and former piles of materials including the bonfire, and possible areas of earthworks/ground disturbance such as the break in slope and the area identified in the south-western quadrant of the eastern meadow.

It is anticipated that the majority of the identified minor sources of contamination can be easily removed to avoid the risk of contaminating the site. The materials, machinery and vehicles together with any bonfire remains will need to be carefully cleared, together with tins of paint, chemicals, fuel etc. from sheds and the barn. Vigilance will need to be maintained throughout any clearance and development works for indicators of contamination, including asbestos.

Given the sensitive residential development proposed for the site it is recommended that a limited Phase 2 intrusive investigation is undertaken to inspect and sample shallow site soils and enable a refined geoenvironmental risk assessment to be undertaken with respect to sensitive site receptors. This would hopefully confirm the absence of significant contamination in areas of main interest (potentially disturbed/made ground, building areas, sensitive areas of the new development). The investigation could also provide further details of ground conditions and soil parameters to inform the design of the scheme if necessary.

For geoenvironmental appraisal, the intrusive investigation could comprise a number of exploratory holes to provide reasonable coverage of the site, to enable the inspection of shallow ground conditions and recover samples for chemical analysis. This could be undertaken using a compact rubber tracked window sampling rig to form small diameter boreholes while minimising disturbance to the site. The investigation should include sampling within identified areas of interest including the vicinity of the main buildings, potentially disturbed ground and areas of waste and vehicle storage, as well as targeting more sensitive areas of the proposed development such as private garden areas where end users are more likely to come into direct contact with site soils.

Samples of made ground and shallow site soils recovered from the exploratory holes should be scheduled for appropriate chemical analyses to enable risk assessment to sensitive human health and environmental receptors in line with current guidance.

Potential sources of ground gas have been identified in the form of made ground and nearby organic alluvial soils, however the presence and extent of such are yet to be confirmed with respect to the proposed area of development. Should significant such soils be encountered it would be recommended to install ground gas wells within three of the exploratory holes to facilitate monitoring of ground gas concentrations. An initial three

visits would be recommended for initial appraisal; further visits may be necessary depending on the findings of the initial monitoring.

Consideration will also need to be given to the geotechnical aspects of the scheme, with respect to the design of foundations, floors and hardstandings. Clay soils in the vicinity of trees and hedges (existing, proposed or historic) can be subject to volume change from tree root action or recovery from such activity, and this should be considered in the design of any development. Geotechnical investigation and assessment should include soil classification with respect to volume change potential, and measurement of moisture profiles where proposed foundations and floors may fall within the zone of influence of hedges or proposed trees. Guidance on the design of foundations and floors in clay soils in the zone of influence of trees is contained within Chapter 4.2 of the NHBC standards.

The geoenvironmental investigation could also include geotechnical appraisal as required to provide information to inform the design of foundations and floors.

The results of the intrusive investigation would be presented in an interpretative report, to include risk assessment in line with current guidance, recommendations for remedial works considered necessary for the proposed development and discussion of initial waste classification for surplus site soils. The report would also discuss geotechnical considerations for the scheme, where appropriate investigation and testing has been instructed and carried out. Site investigation is an iterative process, and additional investigation and assessment may be required depending on the findings of the initial investigation.

The report would be intended to be suitable for submission to the Local Authority to inform planning considerations.

It is recommended that an asbestos survey is undertaken on the existing site buildings and if any asbestos containing materials are identified, they should be suitably removed from site with best practice and full duty of care.

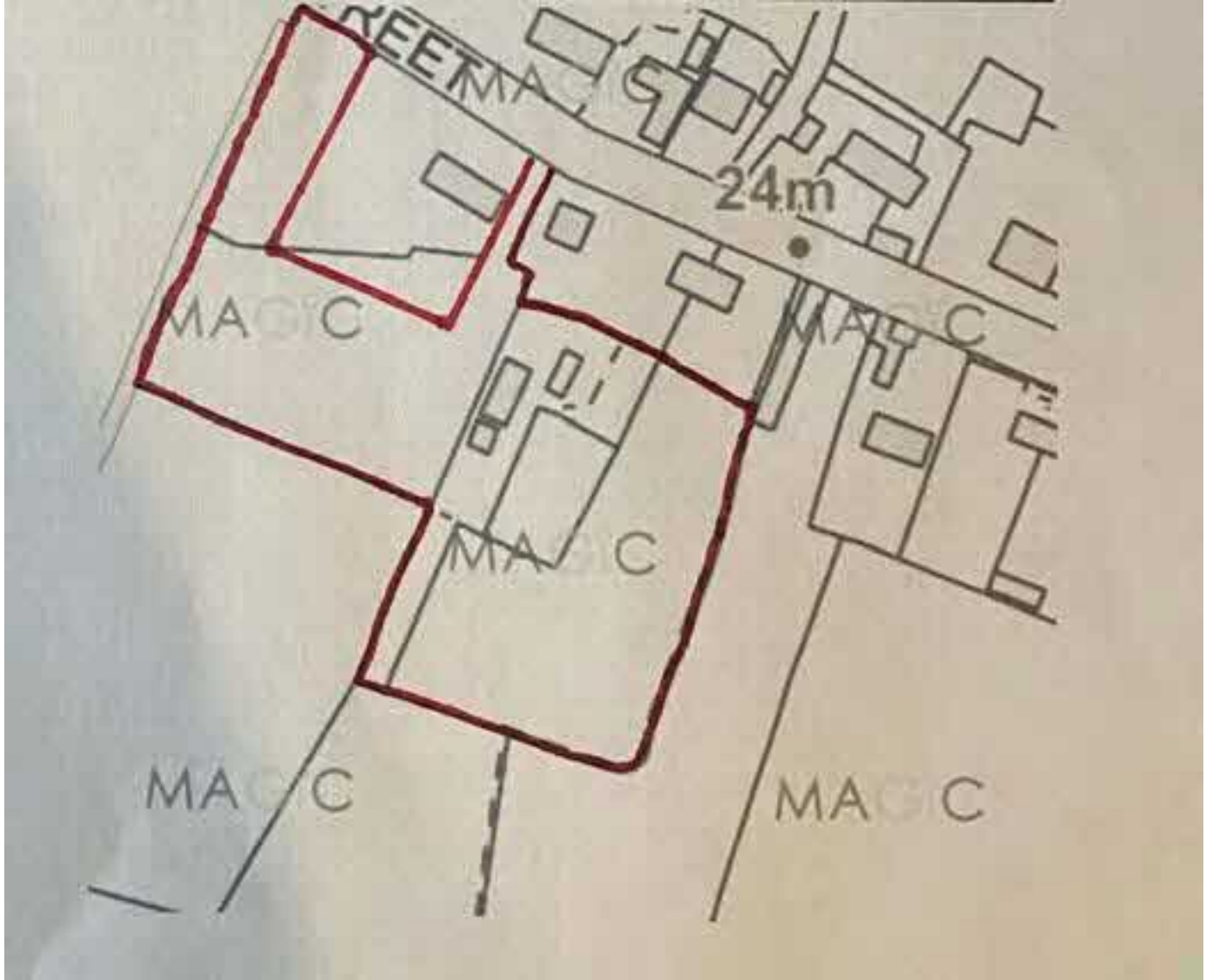
It would also be prudent to undertake a survey for invasive, noxious and otherwise problematic plants.

## 5. CONCLUSIONS

The desk study and site reconnaissance have recorded no indicators of existing gross contaminative impact for the site; they have however identified potential sources of contamination that could pose a possible risk to identified site receptors, and a limited geoenvironmental ground investigation is recommended to assess the site in terms of the proposed development. Geotechnical assessment could be undertaken at the same time to inform the design of foundations, floors and hardstanding.

Advice and recommendations given in this report have been based on the findings of the desk study investigation by RSA Geotechnics Limited and the review of publicly available records and maps, as described in this report. It must be appreciated that no intrusive investigation was carried out as part of this report.

RSA Geotechnics Limited have based this report on the sources detailed earlier in this report and believes them to be reliable but cannot and does not guarantee the authenticity or reliability of the information it has relied upon.



NOTE: All locations are approximate

SITE LOCATION PLAN  
(Based upon drawing supplied by others)  
ORCHID MEADOWS, NETHERGATE STREET, HOPTON, NORFOLK

Date 28 JUNE 2021

Scale NOT TO SCALE

RSA GEOTECHNICS LIMITED

Drawing No 15874DS/1 Version A

## APPENDIX 1

Risk assessment methodology and legislative background,  
Risk classification system; Published guidelines

## RISK ASSESSMENT METHODOLOGY AND LEGISLATIVE BACKGROUND

The legislative document regarding land contamination is the 1995 Environment Act. Forming Part 2A of the Environmental Protection Act of 1990, this act created the framework for the identification and remediation of contaminated land. It established the Environment Agency as the overall National Enforcement Agency, with regional control provided by the Local Authorities.

This Act defines “contaminated land” as any land which appears by the Local Authority to be “in such a condition, by reason of substances, in, on or under the land that:

- significant harm is being caused or there is significant possibility of such harm being caused; or
- significant pollution of Controlled Waters is being caused, or there is significant possibility of such harm being caused.”

The Act is supported by other key guidance including BS10175, 2011+A2:2017 and the National Planning Policy Framework, 2019. In relation to regulatory intervention (Part 2A) and ‘voluntary’ investigation (including redevelopment of sites which may be affected by contamination), the Model Procedures (CLR-11, Environment Agency 2004) provided a generic framework indicating key technical activities applicable in each of those contexts; these have been replaced by the online guidance Land Contamination Risk Management (LCRM) from GOV.UK. The management of land contamination broadly comprises three components, which are identified as ‘Risk Assessment’, ‘Options Appraisal’ and ‘Implementation’. These in turn determine if any unacceptable risks exist, ascertain the most appropriate remediation strategy for the site and demonstrate that the strategy will be effective.

In accordance with this and other current guidance, where a ‘land quality’ risk assessment is required each ‘Relevant Pollutant Linkage’ (formerly referred to as ‘source-pathway-receptor’ framework), is separately identified and a level of risk attached. The risk assessment takes account of the local environment, end user behaviour patterns and the nature of the development in relation to proven ‘unacceptable’ risk. This is the approach supported by current guidance and therefore has been adopted in the assessment of this site.

The guidance requires a Phase 1 investigation or desk study to be undertaken as the first stage of the risk assessment. This derives potential sources, pathways and receptors for the site taking into account the proposed end use. It results in the generation of potential pollutant linkages which are documented in the form of an ‘Outline Conceptual Model’. This is then used to direct and target a Phase 2 or intrusive investigation, if deemed necessary.

In order to classify the anticipated risk associated with the proposed development the classification system defined in Table A has been adopted (from CIRIA C552). The level of risk was determined by the product of the potential consequence (minor, mild, medium, severe) of the contaminant hazard and probability of it occurring (unlikely, low likelihood, likely, high likelihood). A risk level has been assigned to each possible pollutant linkage in accordance with Table B.

Table A – Definitions of consequence, probability and risk ratings	
Potential consequence	
Term	Description
Severe	Short term (acute) risk to human health likely to result in ‘significant harm’ as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem.
Medium	Chronic damage to human health, or pollution of sensitive water resources, significant changes in an ecosystem or organism forming part of that ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, building structures and services. Damage to sensitive buildings, structures, or the environment.
Minor	Harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.
Probability	
Highly likely	The event appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	It is probable that an event will occur, or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	Circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term.
Unlikely	Circumstances are such that it is improbable the event would occur even in the long term.
Risk rating	
Term	Description
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
High risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
Moderate risk	It is possible that without appropriate remedial action harm could arise to a designated receptor but it is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard but is likely that at worst, this harm if realised would normally be mild.
Very Low/ Negligible risk	The presence of an identified hazard does not give rise to the potential to cause significant harm to a designated receptor.

Table B – Risk Matrix		Consequence			
		Severe	Medium	Mild	Minor
Probability	Highly Likely	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low/Negligible
	Unlikely	Moderate/Low	Low	Very Low/Negligible	Very Low/Negligible

The outcome of the intrusive investigation and subsequent ‘land quality’ risk assessment is the establishment of plausible relevant pollutant linkages shown in the form of a ‘Refined Conceptual Model’. This is then used to determine the need for further investigation, or remediation to appropriately mitigate any determined unacceptable risks.

In accordance with the Model Procedures and Regulatory preference, detailed remedial measures should be provided in a separate report to the investigation and risk assessment generally referred to as a Remediation Method Statement (RMS).

The National Planning Policy Framework (NPPF) places responsibility with the Applicant and Developer to ensure that the land and development is suitable for the proposed purpose, and that unacceptable risks have been suitably mitigated.

#### Human Health Generic Risk Assessment

Generic risk assessment includes the comparison of concentrations of determinands measured in site soils with ‘Tier 1’ screening values derived from reference to current guidance, principally comprising Land Quality Management/Chartered Institute of Environmental Health (LQM/CIEH) ‘Suitable for Use Levels (S4ULs) 2015, Defra Category 4 Screening Levels (C4SL) 2014 and CL:AIRE Generic Assessment Criteria (GAC) values 2010. Reference may be made to other sources where considered appropriate, including non-UK sources where no screening values are readily available, such as the USEPA Regional Screening Levels (RSLs).

Screening values must be appropriate to the site setting and/or proposals for development. ‘Default’ generic categories include ‘Residential with home-grown produce’; ‘Residential without home-grown produce’; ‘Allotment’; ‘Commercial’; ‘Public Open Space<sub>residential</sub>’; and ‘Public Open Space<sub>park</sub>’.

Generic screening values considered appropriate to the development proposals for the subject site have been tabulated and included within this section, together with their source.

For some projects it may be appropriate to derive site specific screening values using the Environment Agency Contaminated Land Exposure Assessment (CLEA) model or other tools, to more appropriately reflect site conditions, receptors and the context of exposure.

Screening values for organic determinands can be sensitive to the soil organic matter content and this is taken into account in their derivation.

The assessment of cumulative risk to human health from total petroleum hydrocarbons is undertaken through Hazard Index calculation based on the methodology of the EA ‘UK Approach for Evaluating



Human Health Risks from Petroleum Hydrocarbons in Soils', Science Report P5-080/TR3. Hazard Indices greater than one typically require remedial action or further consideration.

#### Groundwater Risk Assessment

Generic assessment criteria for groundwater are principally derived from reference to Environmental Quality Standards or Drinking Water Standards, as appropriate for the site environs, or in the absence of such values from other sources as considered appropriate. Modelling of the fate and transport of contaminants in soil or groundwater and their potential effects on Controlled Waters may be appropriate depending on the sensitivity of the site setting.

#### Asbestos

There are currently no generic assessment criteria concentrations for asbestos in soils however industry guidance is contained within CIRIA C733 and CAR-SOIL 2012 (2016). It is recognised that the risk is proportional to the potential for fibre release, with a lower risk from asbestos in bonded form, in damp conditions and at low (trace) concentrations. The type of asbestos is also important, with blue asbestos (crocidolite) generally considered two orders of magnitude more hazardous than white asbestos (chrysotile), and brown asbestos (amosite) being in between. The current approach is to reduce exposure to asbestos as far as practically possible, both during siteworks and post-development. This is typically achieved through removal or the provision of a suitable break in pathway between source and receptor.

#### Ground Gas

Guidance with respect to risk assessment and protective measures for ground gases is contained within CIRIA C665, 2007 'Assessing risks posed by hazardous ground gases to buildings'; the Ground Gas Handbook, 2009; BS8485: 2015+A1:2019, 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings' and CL:AIRE Research Bulletin 'A Pragmatic Approach to Ground Gas Risk Assessment' (RB 17, 2012). Gas Screening Values are calculated using the recorded concentrations of methane and carbon dioxide from borehole well monitoring together with the flow rate from the borehole installations, to categorise the site with respect to the typical ground gas precautions anticipated to mitigate unacceptable risks.

#### Buried Concrete

The potential risk to buried concrete is assessed with reference to the guidance of BRE Special Digest 1 (SD-1), 2005, 'Concrete in Aggressive Ground'. This publication attributes a Design Sulphate Class and an Aggressive Chemical Environment for Concrete (ACEC) Class for the site under consideration, based upon the nature of the site, sulphate concentrations, pH values and mobility of groundwater.

#### Potable Water Pipes

Guidance on the selection of potable water supply pipework is contained within the UK Water Industry Research (UKWIR) report reference 10/WM/0321, 'Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites', and this has been adopted by a number of water authorities. The report recommends specific investigation of the proposed pipeline route and level, with laboratory analysis and associated risk assessment to determine the specification for the pipework, once the proposed route and level is confirmed.

### Vegetation

Nickel, copper and zinc are phytotoxic and could therefore inhibit plant growth or establishment. In order to assess the risk posed to vegetation on site from these potentially phytotoxic contaminants the concentrations of copper, zinc and nickel are compared against values given in the British Standard BS 3882: 2015, 'Specification for topsoil', taking into account the typical pH of the site soils.

## PUBLISHED GUIDELINES

- i) Land Contamination Risk Management (LCRM), GOV.UK
- ii) Contaminated Land Statutory Guidance, DEFRA, 2012
- iii) CIRIA C552 – Contaminated Land Risk Assessment: A Guide to Good Practice, 2001
- iv) BS10175:2011+A2:2017 Investigation of potentially contaminated sites, code of practice
- v) LQM-CIEH Suitable for Use Levels (S4ULs) for Human Health Risk Assessment, 2015 (Publication Number S4UL3364)
- vi) EIC/AGS/CL:AIRE - Soil Generic Assessment Criteria for Human Health Risk Assessment, 2010
- vii) Category 4 Screening Levels (C4SL) – DEFRA 2014
- viii) The Water Supply (Water Quality) Regulations 2018 – Drinking Water Standards
- ix) The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017
- x) Environmental Quality Standards (EQS) for freshwaters; estuaries and coastal waters; specific pollutants; operational EQS; priority hazardous substances; priority substances and other pollutants
- xi) CL:AIRE – ‘Guidance on Comparing Soil Contamination Data with a Critical Concentration’, 2008
- xii) Environment Agency Technical Advice to Third Parties on Pollution of Controlled Waters for Part 2A, Version 2, 2002
- xiii) BRE Special Digest 1, ‘Concrete in Aggressive Ground’, 2005
- xiv) UK Water Industry Research ‘Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites’ Report Ref. No. 10/WM/03/21, 2011
- xv) BS 3882: 2015, ‘Specification for topsoil’
- xvi) CIRIA C665 ‘Assessing risks posed by hazardous ground gases to buildings’, 2007
- xvii) Environment Agency ‘Guidance on the classification and assessment of waste’ Technical Guidance WM3, 2015, (1st Edition V1.1), May 2018
- xviii) Environment Agency ‘Soil Guideline Values for dioxins furans and dioxin-like PCBs in soil’ Science Report SC050021, 2009
- xix) United States Environmental Protection Agency (USEPA) – Regional Screening Values, 2020
- xx) CL:AIRE Research Bulletin 17 ‘A Pragmatic Approach to Ground Gas Risk Assessment’, 2012
- xxi) Health Protection Agency ‘Indicative Atlas of Radon’, 2007
- xxii) BRE 211 ‘Radon: Protective Measures for New Buildings’, 2015
- xxiii) Water UK ‘Contaminated Land Assessment Guidance’ 2014
- xxiv) BS 8485:2015+A1:2019 ‘Code of Practice for the Design’
- xxv) CL:AIRE Research Bulletin 17 ‘A Pragmatic Approach to Ground Gas Risk Assessment’, 2012.

## APPENDIX 2

Landmark Envirocheck Data Search

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## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

280187841\_1\_1

**Customer Reference:**

15874DS

**National Grid Reference:**

598800, 279180

**Slice:**

A

**Site Area (Ha):**

0.93

**Search Buffer (m):**

1000

#### Site Details:

Orchid Meadows, Nethergate Street

Hopton

DISS

IP22 2QZ

#### Client Details:

Ms A Holden

RSA Geotechnics Ltd

Ashburnham House

1 Maitland Road

Lion Barn Estate

Needham Market

Suffolk

IP6 8NZ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	17
Industrial Land Use	22
Sensitive Land Use	23
Data Currency	24
Data Suppliers	30
Useful Contacts	31

#### Introduction

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

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#### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1	2	5
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 4			1	(*19)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 9	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 9	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 9	Yes	n/a	n/a	n/a
Source Protection Zones	pg 9	1			
Extreme Flooding from Rivers or Sea without Defences	pg 9	Yes		n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10		20	20	8

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 16		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 16	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 16		1		
Potentially Infilled Land (Non-Water)	pg 16			1	
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
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)
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18		2	1	7
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 20	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 20		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 20	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
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 22		2		4
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 22			1	3
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental	pg 22			1	1
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 23	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 23	1		1	
Ramsar Sites					
Sites of Special Scientific Interest	pg 23		1	1	
Special Areas of Conservation	pg 23		1		
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	0	1	598850 279150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	0	1	598800 279182
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SW)	0	1	598797 279182
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	89	1	598950 279150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	117	1	598650 279300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	179	1	598550 279182
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	180	1	598550 279200
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	183	1	598600 279350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	214	1	599000 279350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	228	1	598550 279350
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	264	1	599100 279300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	279	1	598450 279182
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	281	1	599000 279450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	304	1	598650 279550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	315	1	599050 279450
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	330	1	598400 279150
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	388	1	598350 279100
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	422	1	599100 279550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	423	1	598700 278700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	447	1	598650 279700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	486	1	598650 278650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY)  Location: Nethergate Street, Hopton  Authority: Environment Agency, Anglian Region  Catchment Area: Upper Little Ouse River (Rushmore)  Reference: Ascnf2489  Permit Version: 1  Effective Date: 2nd January 1990  Issued Date: 2nd January 1990  Revocation Date: 16th April 1998  Discharge Type: Storm /emergency overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Trib Little Ouse  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A13NE (N)	46	2	598800 279300
2	<p><b>Discharge Consents</b></p> <p>Operator: Mrs C Noel  Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY  Location: Dairy Farm, Hopton  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr1nfg0551  Permit Version: 1  Effective Date: 15th May 1963  Issued Date: 15th May 1963  Revocation Date: 4th June 1991  Discharge Type: Agricultural effluents  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Little Ouse  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	334	2	598800 279600
3	<p><b>Discharge Consents</b></p> <p>Operator: I.C. Baker  Property Type: Not Supplied  Location: 2 Bury Road Hopton, Diss, Norfolk. Ip22 2nu, Ip22 2nu  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr1lf2665  Permit Version: 1  Effective Date: 15th April 1987  Issued Date: 15th April 1987  Revocation Date: 9th May 1997  Discharge Type: Unknown  Discharge: Onto Land  Environment:  Receiving Water: Land  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	452	2	599260 278930
4	<p><b>Discharge Consents</b></p> <p>Operator: Silkstone Stuart  Property Type: Domestic Property (Single)  Location: Pemberley Shortgrove Lane, Hopton, Diss, Norfolk, Ip22 2rp  Authority: Environment Agency, Anglian Region  Catchment Area: Upper Little Ouse River (Rushmore)  Reference: Prcnf14852  Permit Version: 2  Effective Date: 28th May 2004  Issued Date: 28th May 2004  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Unnamed Ditch Trib Of L. Ouse  <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	635	2	599400 278800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p><b>Discharge Consents</b></p> <p>Operator: Mr Leonard Stuart Silkstone  Property Type: Domestic Property (Single)  Location: Pemberley Shortgrove Lane, Hopton, Diss, Norfolk, Ip22 2rp  Authority: Environment Agency, Anglian Region  Catchment Area: Upper Little Ouse River (Rushmore)  Reference: Prcnf14852  Permit Version: 1  Effective Date: 17th June 2003  Issued Date: 17th July 2003  Revocation Date: 27th May 2004  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Unnamed Ditch Trib Of L. Ouse  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A9NW (SE)	635	2	599400 278800
5	<p><b>Discharge Consents</b></p> <p>Operator: Mr Alan Mitchell  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Hopton Grange Shortgrove Lane, Hopton, Suffolk, Ip22 2rp  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Prc1f17198  Permit Version: 1  Effective Date: 22nd March 2004  Issued Date: 22nd March 2004  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Groundwater  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	642	2	599433 278853
5	<p><b>Discharge Consents</b></p> <p>Operator: Filler Mark And Phillipa  Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)  Location: Plot B Short Grove Lane, Hopton, Suffolk, Ip22 2rp  Authority: Environment Agency, Anglian Region  Catchment Area: Upper Little Ouse River (Rushmore)  Reference: Prcnf17256  Permit Version: 1  Effective Date: 18th June 2004  Issued Date: 18th June 2004  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Ditch Trib R. Little Ouse  <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b>  Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	653	2	599443 278848
6	<p><b>Discharge Consents</b></p> <p>Operator: M K &amp; C F Farley  Property Type: Arable Farming  Location: Hopton End Farm Church Road, Market Weston, Norfolk, Ip22 2nx  Authority: Environment Agency, Anglian Region  Catchment Area: Catchment 29 Unknown Detail  Reference: Gwclf30344  Permit Version: 1  Effective Date: 1st April 1999  Issued Date: 26th July 2000  Revocation Date: Not Supplied  Discharge Type: Trade Discharge - Agricultural And Surface  Discharge: Onto Land  Environment:  Receiving Water: Groundwater  <b>Status: Deemed Groundwater Regulations Authorisation</b>  Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	906	2	599200 278270
	<p><b>Nearest Surface Water Feature</b></p>	A13SW (W)	0	-	598728 279184

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p><b>Water Abstractions</b></p> <p>Operator: A Brown &amp; Son  Licence Number: 6/33/42/*G/0030  Permit Version: 100  Location: Borehole At Hopton  Authority: Environment Agency, Anglian Region  Abstraction: General Farming And Domestic  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: C Chalk 9; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st January 1968  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A18SW (NW)	370	2	598600 279600
	<p><b>Water Abstractions</b></p> <p>Operator: H F Capon &amp; Son  Licence Number: 6/33/42/*G/0042  Permit Version: 100  Location: Borehole At Village Farm  Authority: Environment Agency, Anglian Region  Abstraction: General Farming And Domestic  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: C Chalk 9; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st May 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A3SW (S)	1408	2	598700 277700
	<p><b>Water Abstractions</b></p> <p>Operator: J B Sarson  Licence Number: 6/33/42/*G/0014  Permit Version: 100  Location: Borehole At Market Weston  Authority: Environment Agency, Anglian Region  Abstraction: General Farming And Domestic  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: C Chalk 9; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st December 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A6SE (SW)	1417	2	597700 278200
	<p><b>Water Abstractions</b></p> <p>Operator: Douglas Hugh Atkins  Licence Number: 6/33/42/*s/083  Permit Version: Not Supplied  Location: Little Ouse River, GARBOLDISHAM  Authority: Environment Agency, Anglian Region  Abstraction: Unspecified  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 5  Yearly Rate (m3): 273000  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</p>	A20NW (NE)	1459	2	600001 280096

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Douglas Hugh Atkins Licence Number: 6/33/42/*s/083 Permit Version: Not Supplied Location: Little Ouse River, GARBOLDISHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 5 Yearly Rate (m3): 273000 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	A20NW (NE)	1463	2	600001 280101
	<b>Water Abstractions</b> Operator: C W G Hatten Licence Number: 6/33/42/*G/0002 Permit Version: 100 Location: Borehole At Market Weston Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 9; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1563	2	598400 277600
	<b>Water Abstractions</b> Operator: Douglas H Atkins Licence Number: 6/33/42/*s/102 Permit Version: Not Supplied Location: River Little Ouse Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 1 Yearly Rate (m3): 218180 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	A25SW (NE)	1591	2	600001 280301
	<b>Water Abstractions</b> Operator: J W Kemp Licence Number: 6/33/42/*G/0041 Permit Version: 100 Location: Borehole 1 At Gasthorpe Lodge Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 9; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1600	2	598300 280800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Douglas Hugh Atkins Licence Number: 6/33/42/*s/083 Permit Version: Not Supplied Location: Little Ouse River, GARBOLDISHAM Authority: Environment Agency, Anglian Region Abstraction: Frost Protection Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 5 Yearly Rate (m3): 273000 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	A2ONE (NE)	1636	2	600250 280050
	<b>Water Abstractions</b> Operator: Douglas Hugh Atkins Licence Number: 6/33/42/*s/083 Permit Version: Not Supplied Location: Little Ouse River, GARBOLDISHAM Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 5 Yearly Rate (m3): 273000 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	A2ONE (NE)	1637	2	600255 280045
	<b>Water Abstractions</b> Operator: Douglas H Atkins Licence Number: 6/33/42/*s/102 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 1 Yearly Rate (m3): 218180 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	A2ONE (NE)	1705	2	600300 280100
	<b>Water Abstractions</b> Operator: Environment Agency Licence Number: 6/33/42/*G/0074 Permit Version: 100 Location: Work No.26,Bore At Thelnetham Authority: Environment Agency, Anglian Region Abstraction: Environmental: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 9; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st November 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5NW (SE)	1720	2	600090 277920



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Water Abstractions</b></p> <p>Operator: J K Bucher  Licence Number: 6/33/42/*s/072  Permit Version: Not Supplied  Location: Little Ouse, KNETTISHALL  Authority: Environment Agency, Anglian Region  Abstraction: Spray Irrigation  Abstraction Type: Not Supplied  Source: Stream  Daily Rate (m3): 59  Yearly Rate (m3): 1091000  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</p>	A21SE (NW)	1765	2	597500 280500
	<p><b>Water Abstractions</b></p> <p>Operator: T L Phoenix  Licence Number: 6/33/42/*G/0044  Permit Version: 100  Location: Borehole At Manor Farm  Authority: Environment Agency, Anglian Region  Abstraction: General Farming And Domestic  Abstraction Type: Water may be abstracted from a single point  Source: Groundwater  Daily Rate (m3): Not Supplied  Yearly Rate (m3): Not Supplied  Details: C Chalk 9; Status: Perpetuity  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st November 1966  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A4SE (SE)	1773	2	599600 277500
	<p><b>Water Abstractions</b></p> <p>Operator: Robin Tacchi Plants  Licence Number: 6/33/42/*G/0110  Permit Version: 100  Location: Borehole - Garboldisham  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: C Chalk 9; Status: Temporary  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 1st February 1993  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A25SW (NE)	1800	2	600100 280500
	<p><b>Water Abstractions</b></p> <p>Operator: R B Tacchi  Licence Number: 6/33/42/*G/0124  Permit Version: 1  Location: Borehole At Garboldisham  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: Not Supplied  Authorised Start: 01 January  Authorised End: 31 December  Permit Start Date: 28th April 2003  Permit End Date: Not Supplied  Positional Accuracy: Located by supplier to within 10m</p>	A25NE (NE)	1913	2	600150 280610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Robin Tacchi Plants Limited Licence Number: An/033/0042/005/R01 Permit Version: 1 Location: Borehole At Garboldisham 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NE (NE)	1917	2	600150 280615
	<b>Water Abstractions</b> Operator: Robin Tacchi Plants Limited Licence Number: An/033/0042/005 Permit Version: 2 Location: Borehole At Garboldisham 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 27th September 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NE (NE)	1917	2	600150 280615
	<b>Water Abstractions</b> Operator: R B Tacchi Licence Number: An/033/0042/005 Permit Version: 1 Location: Borehole At Garboldisham 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd January 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NE (NE)	1917	2	600150 280615
	<b>Water Abstractions</b> Operator: R Tacchi Licence Number: 6/33/42/*g/086 Permit Version: Not Supplied Location: Borehole Garboldisham Common, GARBOLDISHAM Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 4 Yearly Rate (m3): 136000 Details: C Chalk 9; 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	A25NE (NE)	1941	2	600200 280600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Groundwater Vulnerability Map</b> 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: Low	A13SE (SE)	0	3	598834 279134
	<b>Groundwater Vulnerability Map</b> 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: Low	A13NW (NW)	0	3	598772 279194
	<b>Groundwater Vulnerability Map</b> 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: Low	A13SE (SW)	0	3	598797 279182
	<b>Groundwater Vulnerability - Soluble Rock Risk</b> Classification: Significant Risk - Low Possibility	A13SE (SW)	0	3	598797 279182
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	A13SE (SW)	0	3	598797 279182
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (NW)	0	3	598772 279194
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	3	598797 279182
8	<b>Source Protection Zones</b> Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SE (SW)	0	2	598797 279182
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	0	2	598758 279218
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	0	2	598743 279208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
9	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 330.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A13NW (NW)	1	4	598737 279210
10	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 42.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (NW)	6	4	598759 279271
11	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 57.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (W)	9	4	598720 279184
12	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 105.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (W)	48	4	598678 279227
13	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (NW)	48	4	598723 279293
14	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (NW)	49	4	598729 279302
15	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 29.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (W)	66	4	598667 279206
16	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 87.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (W)	78	4	598651 279181

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (W)	78	4	598651 279181
18	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 106.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	92	4	598697 279077
19	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 110.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NW (N)	94	4	598764 279362
20	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 69.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	114	4	598670 279085
21	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 56.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (W)	146	4	598605 279107
22	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 146.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	157	4	598669 279007
23	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 46.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	157	4	598669 279007
24	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 122.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NE (NE)	193	4	598897 279417
25	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 224.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13NE (N)	198	4	598819 279458

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 204.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A13SW (SW)	202	4	598583 279039
27	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 126.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	202	4	598559 279074
28	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 296.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (S)	233	4	598743 278886
29	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 153.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A13SE (SE)	277	4	599042 278912
30	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 154.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	305	4	598551 278914
31	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 2	A13SW (SW)	306	4	598542 278925
32	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	308	4	598542 278923
33	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	315	4	599018 278842
34	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	319	4	599024 278841

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	320	4	599026 278841
36	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	322	4	599029 278842
37	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	326	4	599035 278840
38	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 56.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A12SE (SW)	327	4	598459 278999
39	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 155.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NE (SE)	334	4	599045 278838
40	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 238.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A13SW (SW)	360	4	598511 278876
41	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 33.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A8NW (SW)	367	4	598587 278806
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 360.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A12SE (SW)	384	4	598412 278967
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18SE (N)	418	4	598935 279649

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 479.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18SE (N)	423	4	598938 279654
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 35.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A9NW (SE)	448	4	599177 278805
46	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1096.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A9NW (SE)	469	4	599172 278770
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18SE (N)	494	4	598868 279751
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 339.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18SE (N)	500	4	598868 279757
49	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 453.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A7NW (SW)	738	4	598074 278842
50	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 188.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A7NW (SW)	738	4	598074 278842
51	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18NE (N)	769	4	598954 280013
52	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 69.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A7NE (SW)	779	4	598145 278667



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A7NE (SW)	779	4	598145 278667
54	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18NE (N)	834	4	598872 280096
55	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 327.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A18NE (N)	840	4	598870 280102
56	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 519.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A19NW (NE)	963	4	599200 280130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Hopton Name: Land By 12 Nethergate Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00748 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 3500/5119	A13SE (E)	128	2	598979 279110
	<b>Local Authority Landfill Coverage</b> Name: Suffolk County Council - Has supplied landfill data		0	5	598797 279182
	<b>Local Authority Landfill Coverage</b> Name: St Edmundsbury Borough Council - Has supplied landfill data		0	6	598797 279182
58	<b>Local Authority Recorded Landfill Sites</b> Location: Adj 12 Nethergate Street, Nethergate Street, Hopton Reference: Not Supplied Authority: St Edmundsbury Borough Council (now part of West Suffolk Council), Environmental Health & Housing Services <b>Last Reported Status:</b> Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable	A13SE (E)	151	6	599000 279100
59	<b>Potentially Infilled Land (Non-Water)</b> Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A8NW (S)	403	-	598764 278705

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: White Chalk Subgroup	A13SE (SW)	0	1	598797 279182
	<b>BGS Estimated Soil Chemistry</b> 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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SE (SW)	0	1	598797 279182
	<b>BGS Estimated Soil Chemistry</b> 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	A13NW (NW)	0	1	598772 279194
	<b>BGS Estimated Soil Chemistry</b> 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 - 30 mg/kg	A13SE (SE)	189	1	599000 279000
	<b>BGS Estimated Soil Chemistry</b> 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	A12NE (NW)	387	1	598441 279483
	<b>BGS Estimated Soil Chemistry</b> 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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A8NE (SE)	580	1	599105 278586
	<b>BGS Estimated Soil Chemistry</b> 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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A9NW (SE)	791	1	599421 278564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 20 - 40 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A9NE (SE)	879	1	599621 278696
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 20 - 40 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A8SE (S)	948	1	599036 278174
60	<b>BGS Recorded Mineral Sites</b> Site Name: Hopton Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210343 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (S)	193	1	598889 278915
61	<b>BGS Recorded Mineral Sites</b> Site Name: Hopton Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210344 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NE (E)	215	1	599080 279196
62	<b>BGS Recorded Mineral Sites</b> Site Name: Fen Farm Gravel Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210313 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Ingham Sand And Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	402	1	598753 278708
63	<b>BGS Recorded Mineral Sites</b> Site Name: Fen Street Gravel Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210304 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Ingham Sand And Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SW (W)	714	1	598055 278947

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Wall Covert Pit            Location: Hopton, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210299            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Lowestoft Formation            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	779	1	597956 279280
65	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Dairy Farm Pit            Location: Hopton, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210301            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Lowestoft Formation            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	793	1	598134 279749
65	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Dairy Farm Pit            Location: Hopton, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210302            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Lowestoft Formation            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	809	1	598150 279795
66	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Dairy Farm Pit            Location: Hopton, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210303            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Lowestoft Formation            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	809	1	598297 279929
67	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Wall Covert Pit            Location: Hopton, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210300            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Croxton Sand And Gravel Member            Commodity: Sand and Gravel            Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	838	1	597927 279427
68	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Fen Street Pit            Location: Market Weston, Bury St Edmunds, Suffolk            Source: British Geological Survey, National Geoscience Information Service            Reference: 210306            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Ingham Sand And Gravel Formation            Commodity: Sand and Gravel            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	958	1	597817 278890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	598772 279194
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	132	1	598601 279217
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	199	1	599027 279297
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	23	1	598754 279128
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	23	1	598754 279128
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	598834 279134
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	598772 279194
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	84	1	598663 279248

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Radon Potential - Radon Affected Areas</b></p> <p>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).</p> <p>Source: British Geological Survey, National Geoscience Information Service</p>	A13SE (SW)	0	1	598797 279182
	<p><b>Radon Potential - Radon Protection Measures</b></p> <p>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions</p> <p>Source: British Geological Survey, National Geoscience Information Service</p>	A13SE (SW)	0	1	598797 279182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	<b>Contemporary Trade Directory Entries</b> Name: Plastic Piling Ltd Location: Cottars Hall, Nethergate Street, Hopton, Diss, Norfolk, IP22 2QZ Classification: Plastics - Extrusion Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13NE (N)	22	-	598823 279257
70	<b>Contemporary Trade Directory Entries</b> Name: Charts & Marking Systems (International) Location: Bryndle House, Nethergate Street, Hopton, Diss, Norfolk, IP22 2QZ Classification: Laboratory Equipment, Instruments & Supplies Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A13NE (E)	155	-	599019 279194
71	<b>Contemporary Trade Directory Entries</b> Name: Harling Collection Location: The Old Greyhound Barn, Bury Road, Hopton, Diss, Norfolk, IP22 2NU Classification: Furniture Manufacturers - Home & Office Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	502	-	599189 278741
71	<b>Contemporary Trade Directory Entries</b> Name: Eastern Vulcanising Services Ltd Location: The Old Greyhound Barn, Bury Road, Hopton, Diss, Norfolk, IP22 2NU Classification: Conveyors & Conveyor Belts Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	502	-	599189 278741
72	<b>Contemporary Trade Directory Entries</b> Name: Printing.Com @ Printlink Ltd Location: Pembley, Short Grove Lane, Hopton, Diss, Norfolk, IP22 2RP Classification: Printers Status: <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NE (SE)	696	-	599472 278807
73	<b>Contemporary Trade Directory Entries</b> Name: Demeanour Customs Location: Touch Wood, Common Road, Hopton, Diss, IP22 2QU Classification: Engineers - General Status: <b>Active</b> Positional Accuracy: Automatically positioned to the address	A19SE (NE)	877	-	599629 279611
74	<b>Points of Interest - Manufacturing and Production</b> Name: Workings (Dis) Location: IP22 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	278	7	598483 279321
75	<b>Points of Interest - Manufacturing and Production</b> Name: D Sarson Farm Location: Hillside Farm, Bury Road, Market Weston, Diss, IP22 2PB Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A8NE (SE)	560	7	599071 278592
76	<b>Points of Interest - Manufacturing and Production</b> Name: Workings (Dis) Location: IP22 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	704	7	598064 278953
77	<b>Points of Interest - Manufacturing and Production</b> Name: T L Phoenix & Sons Location: Manor Farm, Common Road, Hopton, Diss, IP22 2QU Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NE (E)	837	7	599635 279508
78	<b>Points of Interest - Recreational and Environmental</b> Name: Play Area Location: IP22 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	491	7	599356 279165
79	<b>Points of Interest - Recreational and Environmental</b> Name: Play Area Location: IP22 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	597	7	599406 278907



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	<b>Environmentally Sensitive Areas</b> Name: Breckland (decommissioned) Multiple Areas: N Total Area (m2): 945352881.45 Source: Natural England	A13SE (SW)	0	8	598797 279182
81	<b>Nitrate Vulnerable Zones</b> Name: Ely Ouse And Cut-Off Channel Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (SW)	0	3	598797 279182
82	<b>Nitrate Vulnerable Zones</b> Name: Anglian Chalk Description: Groundwater Source: Environment Agency, Head Office	A12NE (NW)	426	3	598398 279486
83	<b>Sites of Special Scientific Interest</b> Name: Weston Fen Multiple Areas: N Total Area (m2): 497274.64 Source: Natural England Reference: 1001985 Designation Details: Local Wildlife Site Designation Date: 1st July 1986 Date Type: Notified Designation Details: Special Area Of Conservation Designation Date: 1st July 1986 Date Type: Notified Designation Details: Site Of Special Scientific Interest Designation Date: 1st July 1986 Date Type: Notified Designation Details: Water Framework Directive (WFD) Designation Date: 1st July 1986 Date Type: Notified	A13SW (SW)	89	8	598700 279079
84	<b>Sites of Special Scientific Interest</b> Name: Hopton Fen Multiple Areas: N Total Area (m2): 153086.09 Source: Natural England Reference: 1004395 Designation Details: Site Of Special Scientific Interest Designation Date: 1st February 1984 Date Type: Notified	A18SE (N)	481	8	598991 279696
85	<b>Special Areas of Conservation</b> Name: Waveney & Little Ouse Valley Fens Multiple Areas: Y Total Area (m2): 1937570.12 Source: Natural England Reference: UK0012882 Status: <b>Designated</b>	A13SW (SW)	89	8	598700 279079

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Mid Suffolk District Council - Environmental Health Department Environment Agency - Head Office St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services West Suffolk Council Breckland District Council - Environmental Health Department	January 2020 June 2020 March 2014  March 2014 October 2017	Annual Rolling Update Annually Annual Rolling Update  Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region	April 2021	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region	March 2013	Annual Rolling Update
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region	October 2008	Variable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region	April 2021	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Breckland District Council - Environmental Health Department St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services West Suffolk Council Mid Suffolk District Council - Environmental Health Department	April 2014 August 2015  August 2015 June 2014	Variable Variable  Variable Variable
<b>Local Authority Pollution Prevention and Controls</b> Breckland District Council - Environmental Health Department St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services West Suffolk Council Mid Suffolk District Council - Environmental Health Department	April 2014 August 2015  August 2015 June 2014	Not Applicable Annual Rolling Update  Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Breckland District Council - Environmental Health Department St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services Mid Suffolk District Council - Environmental Health Department	April 2014 August 2015  June 2014	Variable Variable  Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	January 2021	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Anglian Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Anglian Region	March 2013	Annual Rolling Update
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region	March 2013	Annual Rolling Update
<b>Registered Radioactive Substances</b> Environment Agency - Anglian Region	June 2016	
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	April 2021 April 2021	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region	April 2021	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region	October 2017	Quarterly
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Groundwater Vulnerability - Soluble Rock Risk</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	October 2019	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2021	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2021	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	March 2021	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	March 2021	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	March 2021	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	September 2020	Quarterly
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water Suitability</b> Environment Agency - Head Office	October 2013	Annually
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Head Office	May 2021	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Anglian Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	April 2021 April 2021	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	April 2021 April 2021	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Breckland District Council - Environmental Health Department Mid Suffolk District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services Suffolk County Council West Suffolk Council	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> West Suffolk Council Mid Suffolk District Council - Environmental Health Department Breckland District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health & Housing Services Suffolk County Council	April 2006 July 2003 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Central Area Environment Agency - Anglian Region - Eastern Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	April 2018	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Suffolk County Council - Environment and Transport Breckland District Council - Health and Housing Mid Suffolk District Council - Planning Department Norfolk County Council - Planning & Transportation - Minerals & Waste St Edmundsbury Borough Council (now part of West Suffolk Council) - Planning Department West Suffolk Council	February 2006 February 2016 February 2016 June 2007 June 2016 June 2016	Annual Rolling Update Variable Variable Annual Rolling Update Variable Variable
<b>Planning Hazardous Substance Consents</b> Suffolk County Council - Environment and Transport Breckland District Council - Health and Housing Mid Suffolk District Council - Planning Department St Edmundsbury Borough Council (now part of West Suffolk Council) - Planning Department West Suffolk Council Norfolk County Council - Planning & Transportation - Minerals & Waste	February 2006 February 2016 February 2016 February 2016 February 2016 June 2007	Annual Rolling Update Variable Variable Variable Variable Annual Rolling Update
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	October 2015	Annually
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	April 2021	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	June 2021	Quarterly
<b>Gas Pipelines</b> National Grid	May 2021	
<b>Points of Interest - Commercial Services</b> PointX	June 2021	Quarterly
<b>Points of Interest - Education and Health</b> PointX	June 2021	Quarterly
<b>Points of Interest - Manufacturing and Production</b> PointX	June 2021	Quarterly
<b>Points of Interest - Public Infrastructure</b> PointX	June 2021	Quarterly
<b>Points of Interest - Recreational and Environmental</b> PointX	June 2021	Quarterly
<b>Underground Electrical Cables</b> National Grid	May 2021	

Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	February 2021	Bi-Annually
<b>Areas of Adopted Green Belt</b> Breckland District Council Mid Suffolk District Council - Planning Department St Edmundsbury Borough Council (now part of West Suffolk Council) West Suffolk Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
<b>Areas of Unadopted Green Belt</b> Breckland District Council Mid Suffolk District Council - Planning Department St Edmundsbury Borough Council (now part of West Suffolk Council) West Suffolk Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	January 2021	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2021	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	January 2021	Bi-Annually
<b>National Parks</b> Natural England	April 2017	Bi-Annually
<b>Nitrate Sensitive Areas</b> Natural England	April 2016	Not Applicable
<b>Nitrate Vulnerable Zones</b> Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
<b>Ramsar Sites</b> Natural England	August 2020	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	February 2021	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	July 2020	Bi-Annually
<b>Special Protection Areas</b> Natural England	February 2021	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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> 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	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	<b>Suffolk County Council</b> St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ	Telephone: 01473 583000 Fax: 01473 230240 Website: www.suffolkcc.gov.uk
6	<b>St Edmundsbury Borough Council (now part of West Suffolk Council) - Environmental Health &amp; Housing Services</b> West Suffolk House, Western Way, Bury St Edmunds, Suffolk, IP33 3YU	Telephone: 01284 757042 Fax: 01284 757378 Website: www.stedmundsbury.gov.uk
7	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	<b>Forestry Commission</b> 231 Corstorphine Road, Edinburgh, Midlothian, EH12 7AT	Telephone: 0131 334 0303 Fax: 0131 334 4473
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

### Index Map

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

#### Slice

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

#### Segment

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

#### Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

### Client Details

Ms A Holden, RSA Geotechnics Ltd, Ashburnham House, 1 Maitland Road, Lion Barn Estate, Needham Market, Suffolk, IP6 8NZ

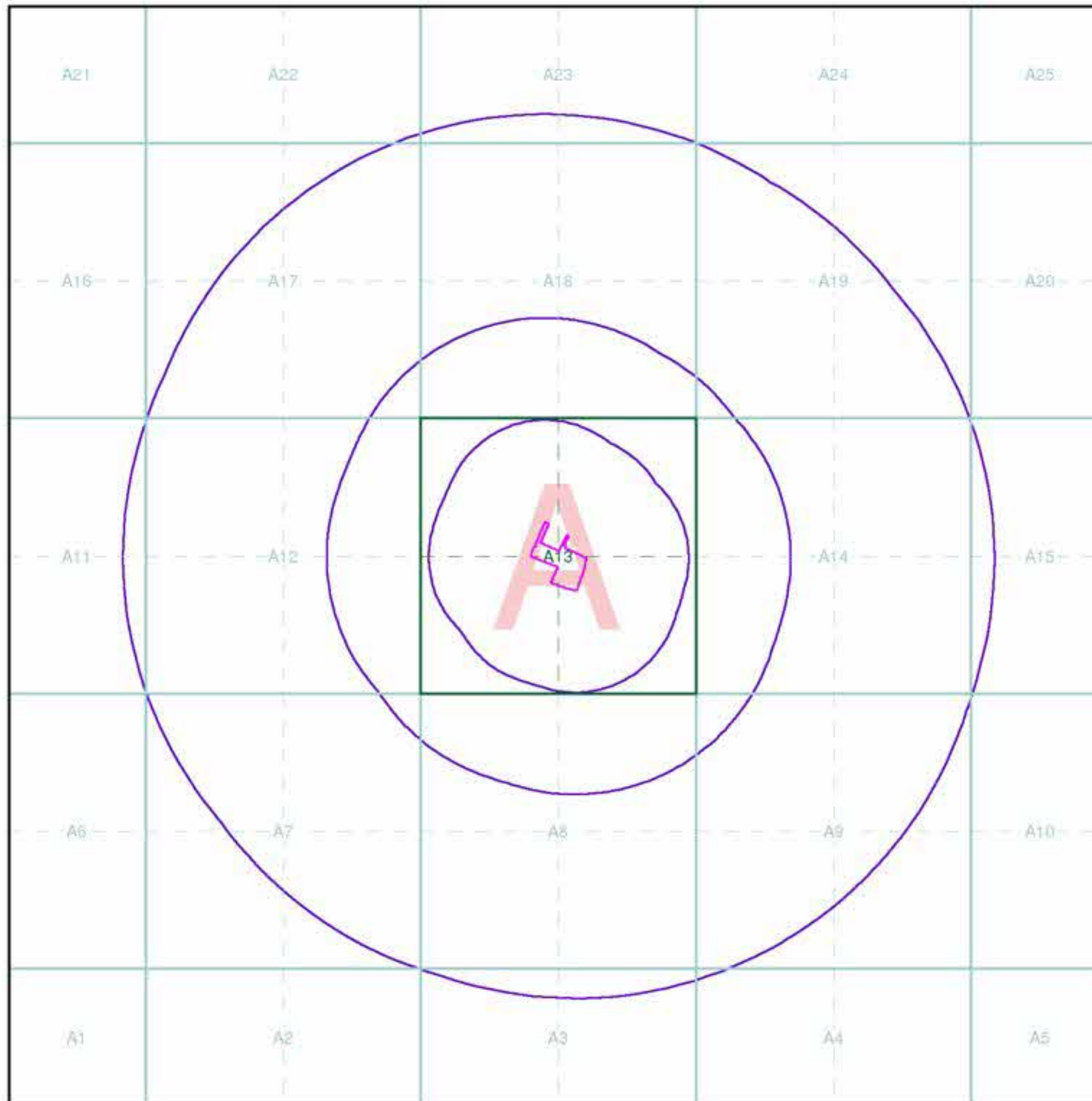
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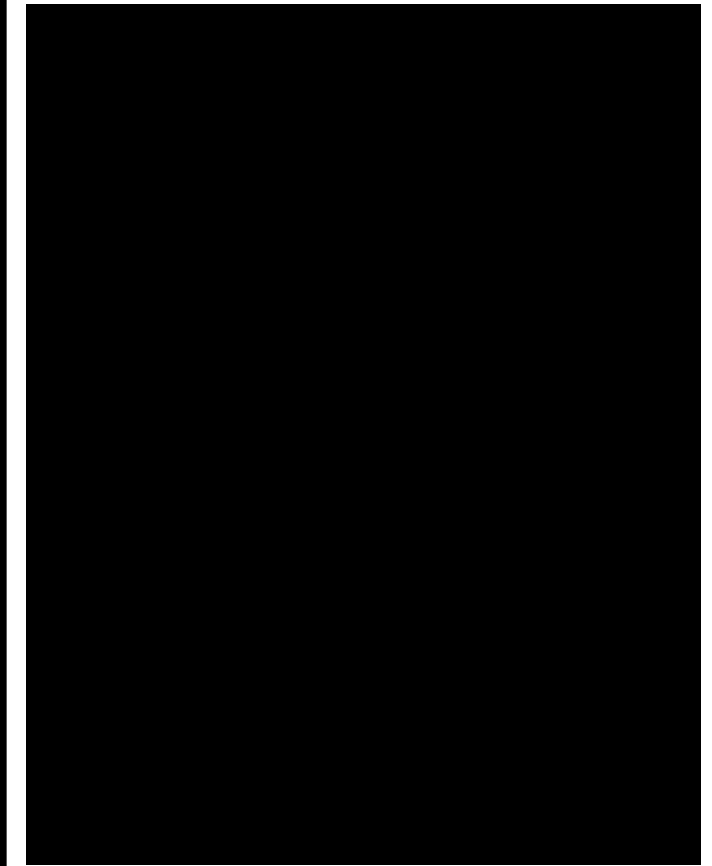
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 National Grid Reference: 598800, 279170  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

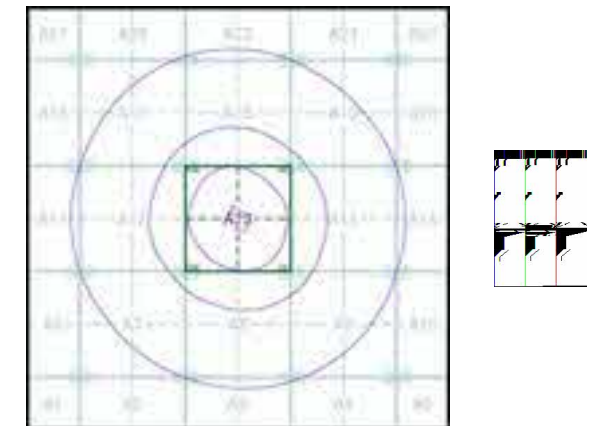
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

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





**Site Sensitivity Map - Slice A**



**Order Details**

Order Number: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

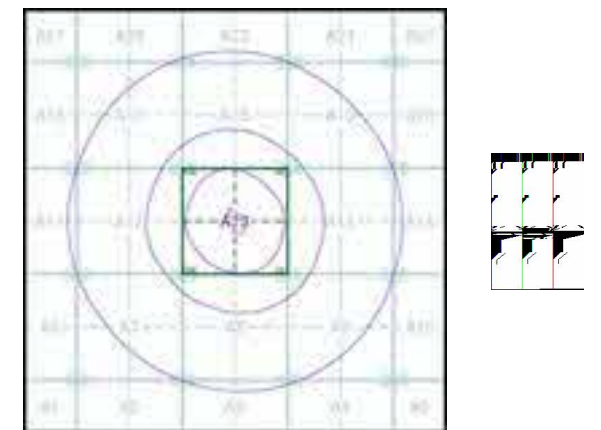
**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

**Industrial Land Use Map**



**Industrial Land Use Map - Slice A**

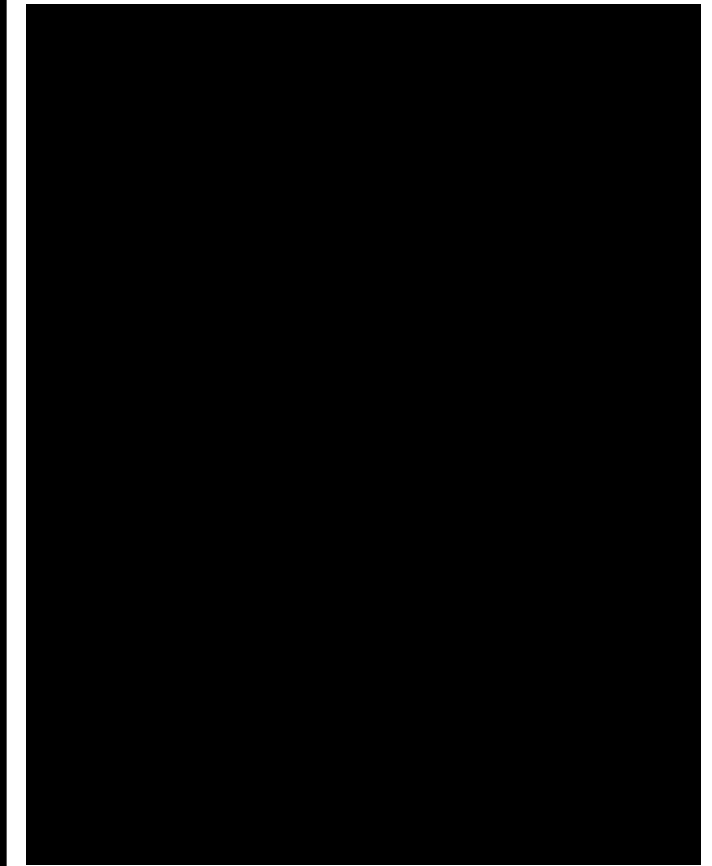


**Order Details**

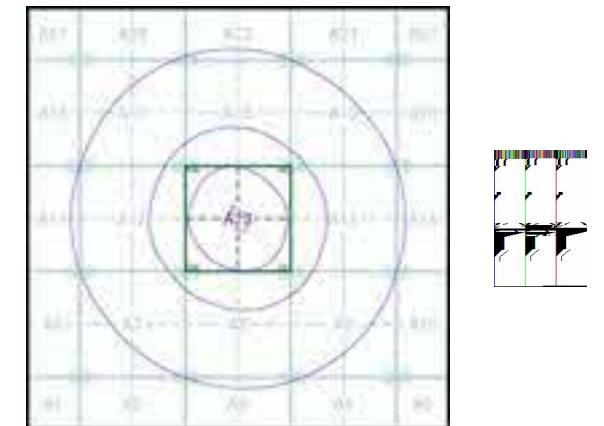
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Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Flood Map - Slice A**



**Order Details**

Order Number: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

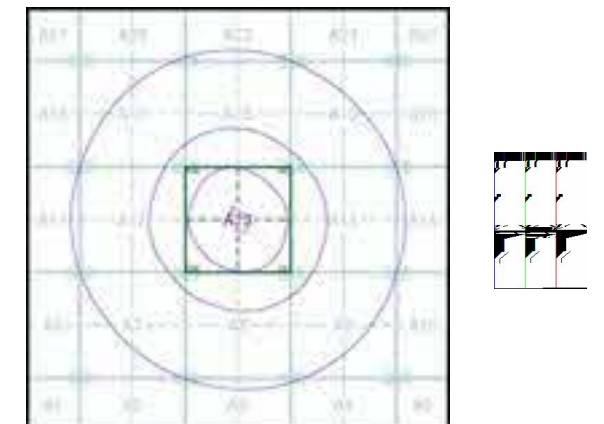
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



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](http://www.envirocheck.co.uk).

### Borehole Map - Slice A

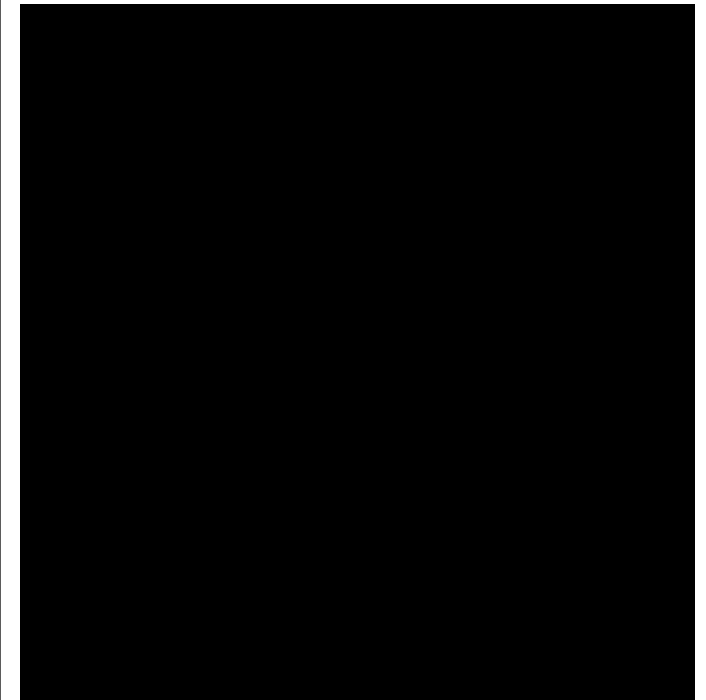


### Order Details

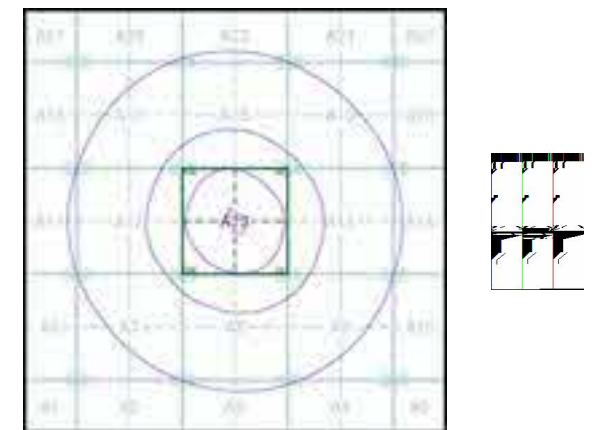
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Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**OS Water Network Map - Slice A**

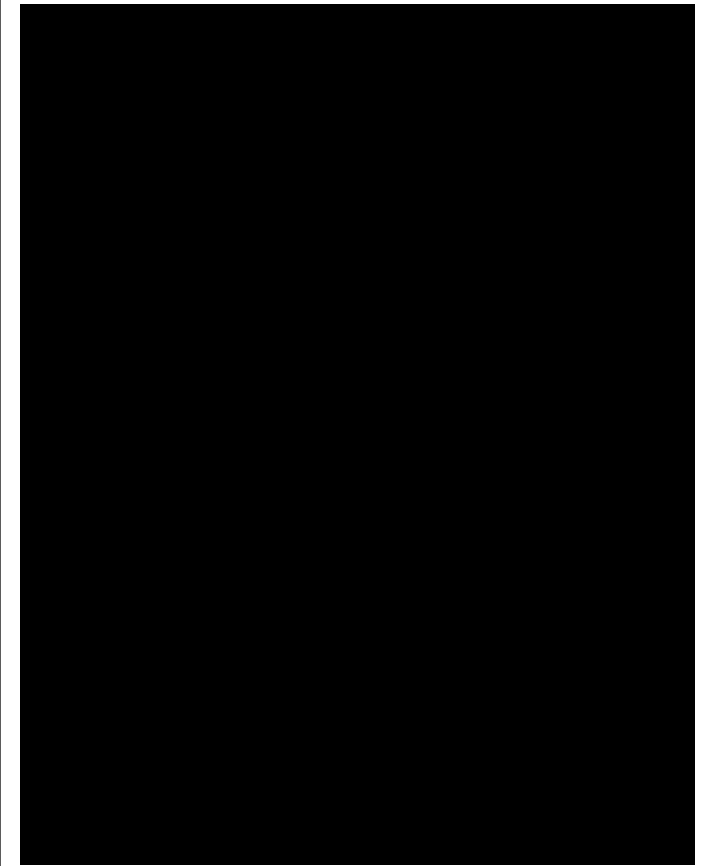


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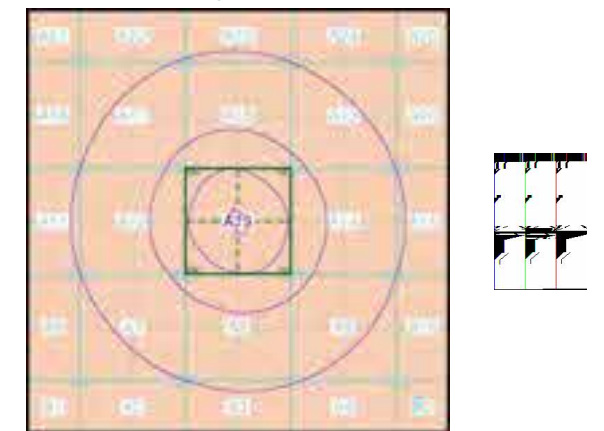
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National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**EANRW Suitability Map - Slice A**



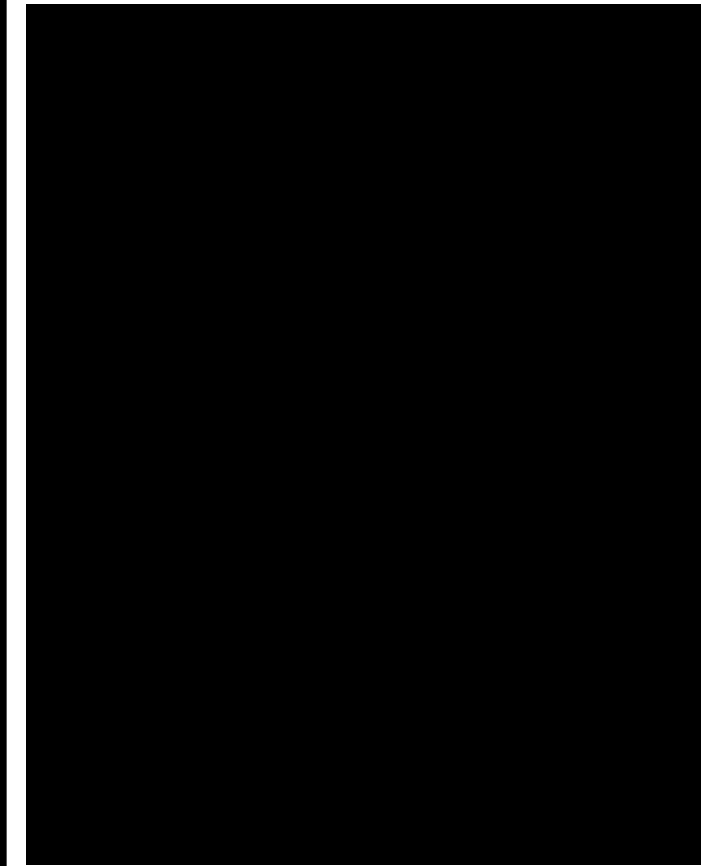
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Search Buffer (m): 1000

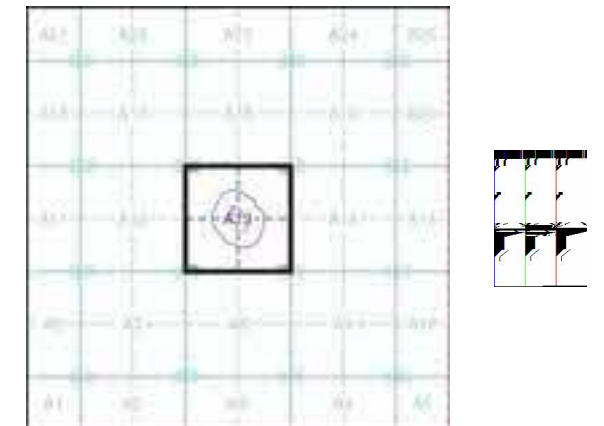
**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ





**Site Sensitivity Map - Segment A13**

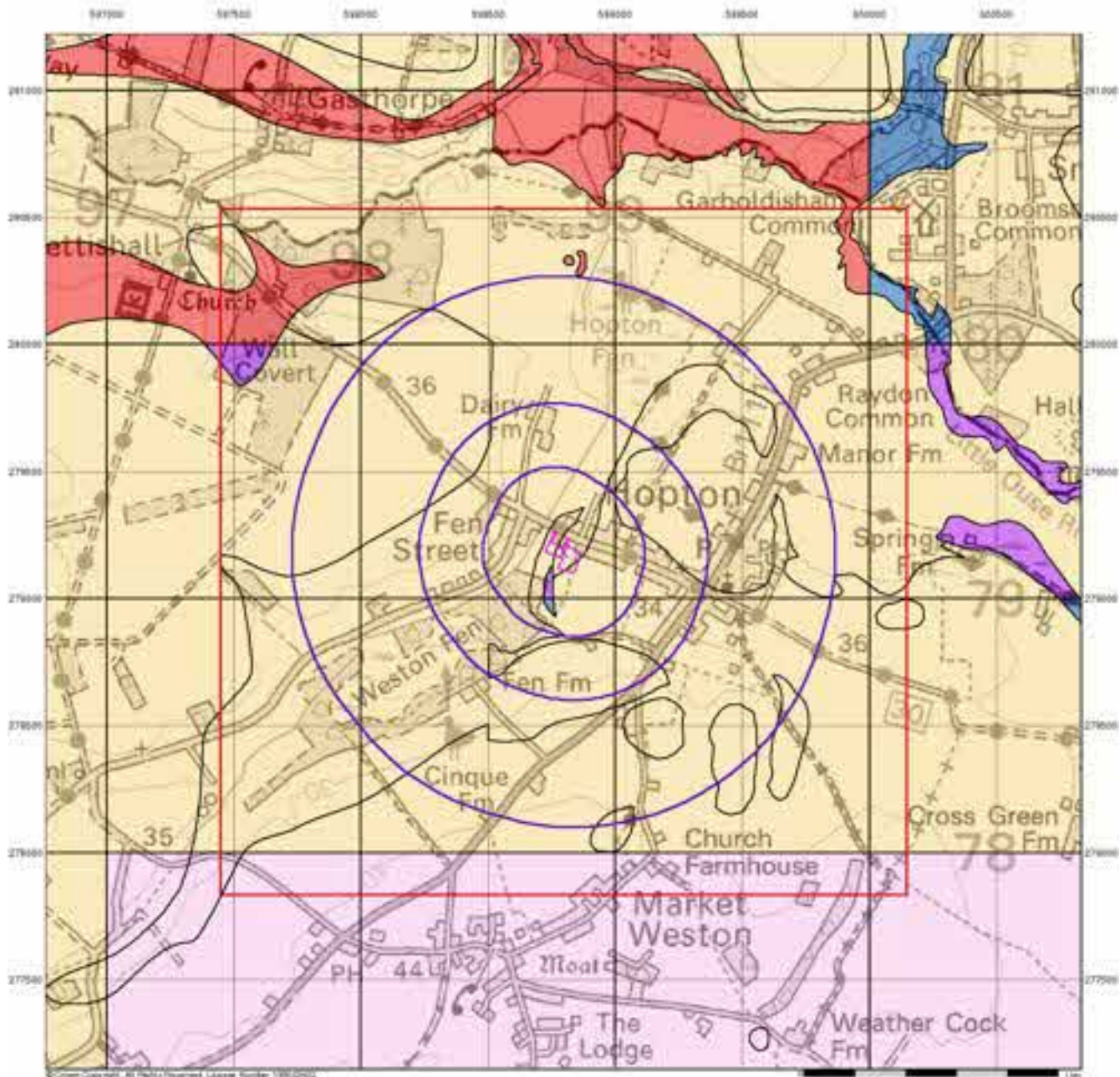


**Order Details**

Order Number: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Plot Buffer (m): 100

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Groundwater Vulnerability**

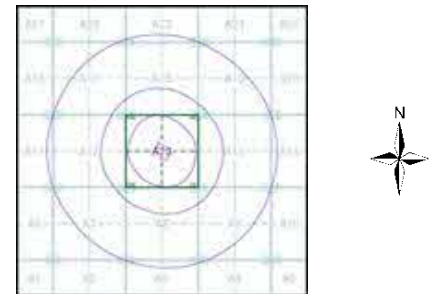
**General**

- Specified Site
- Specified Buffer
- Bearing Reference Point
- Site
- Map ID

**Agency and Hydrological**

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer
Unproductive Aquifer	
Soluble Rock	

**Site Sensitivity Context Map - Slice A**

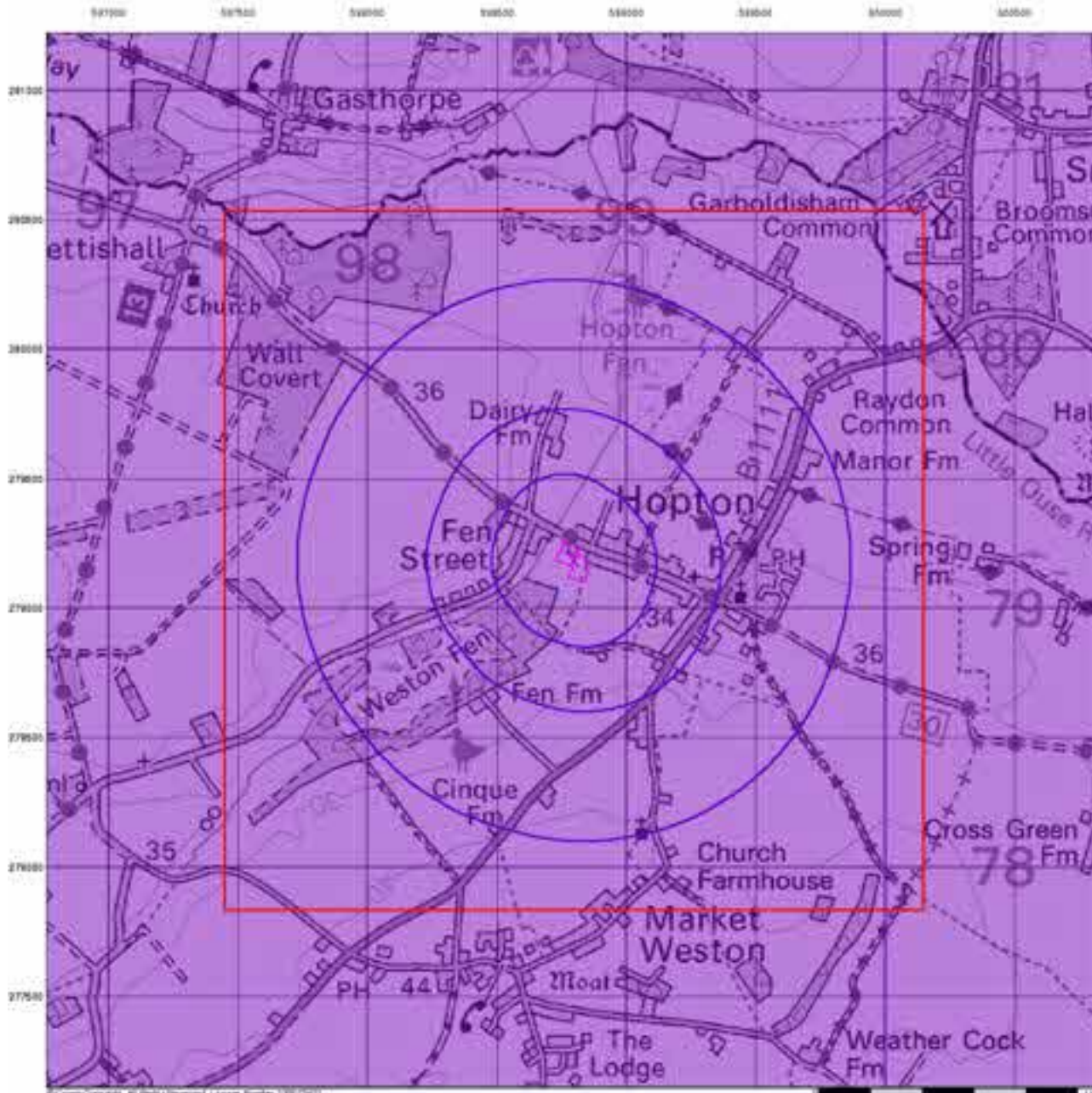


**Order Details**

Order Number: 280187841\_1\_1  
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 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

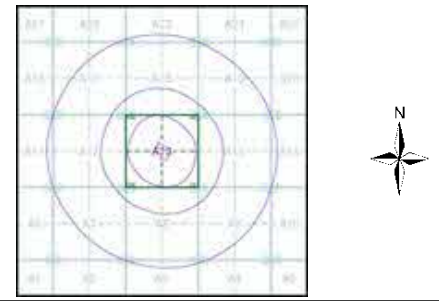
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Bedrock Aquifer Designation**

- General**
- Specified Site
  - Slice
  - Specified Buffer
  - Map ID
  - Bearing Reference Point
- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
  - Secondary A Aquifer
  - Secondary B Aquifer
  - Secondary Undifferentiated
  - Unproductive Strata
  - Unknown
  - Unknown (Lakes and Landlip)

**Site Sensitivity Context Map - Slice A**

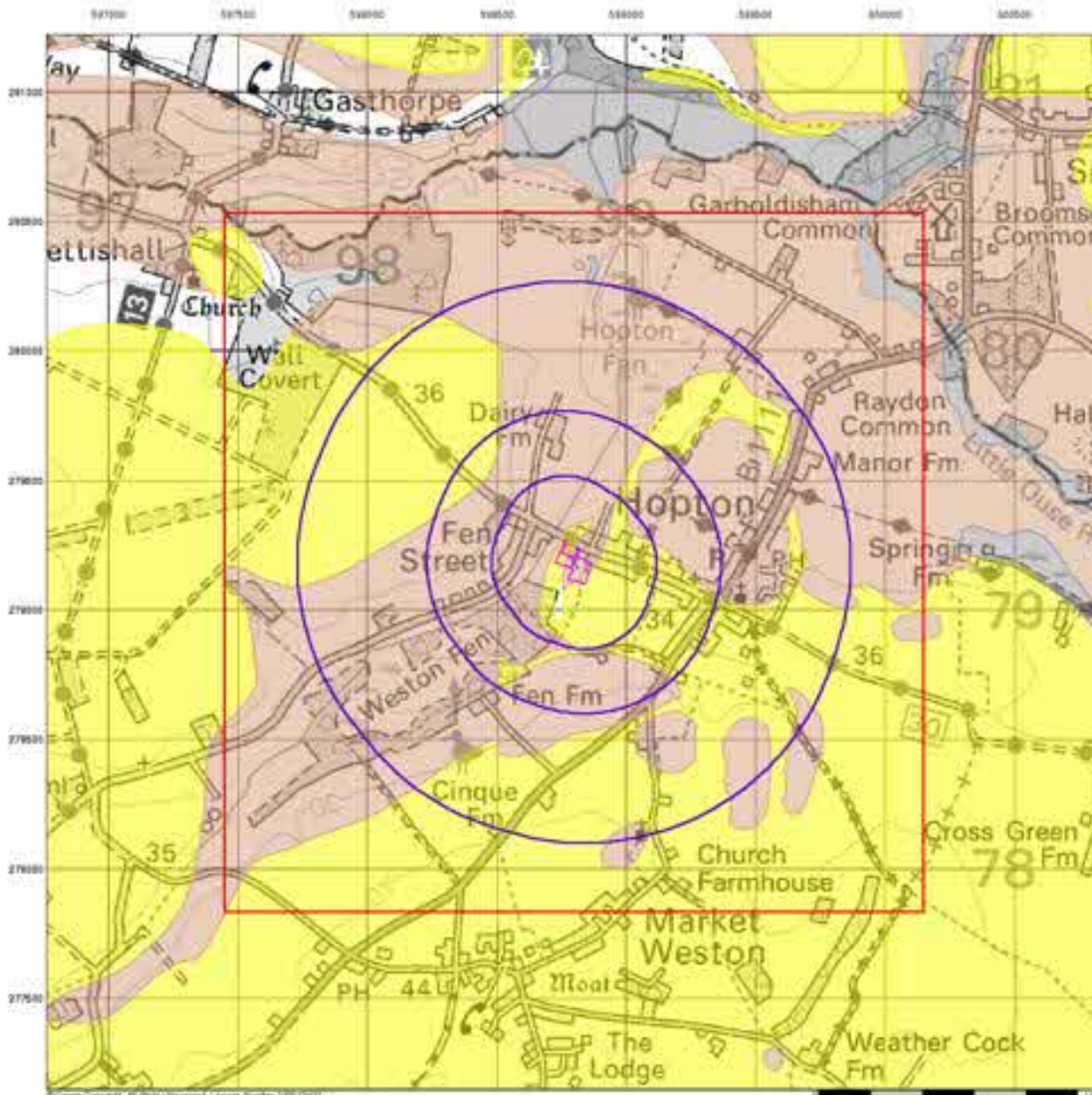


**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

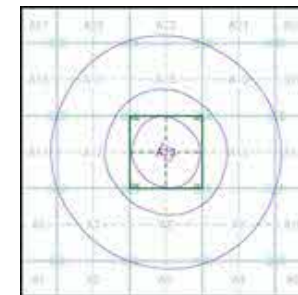
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



### Superficial Aquifer Designation

- General**
- Specified Site
  - Slice
  - Specified Buffer
  - Map ID
  - Bearing Reference Point
- 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

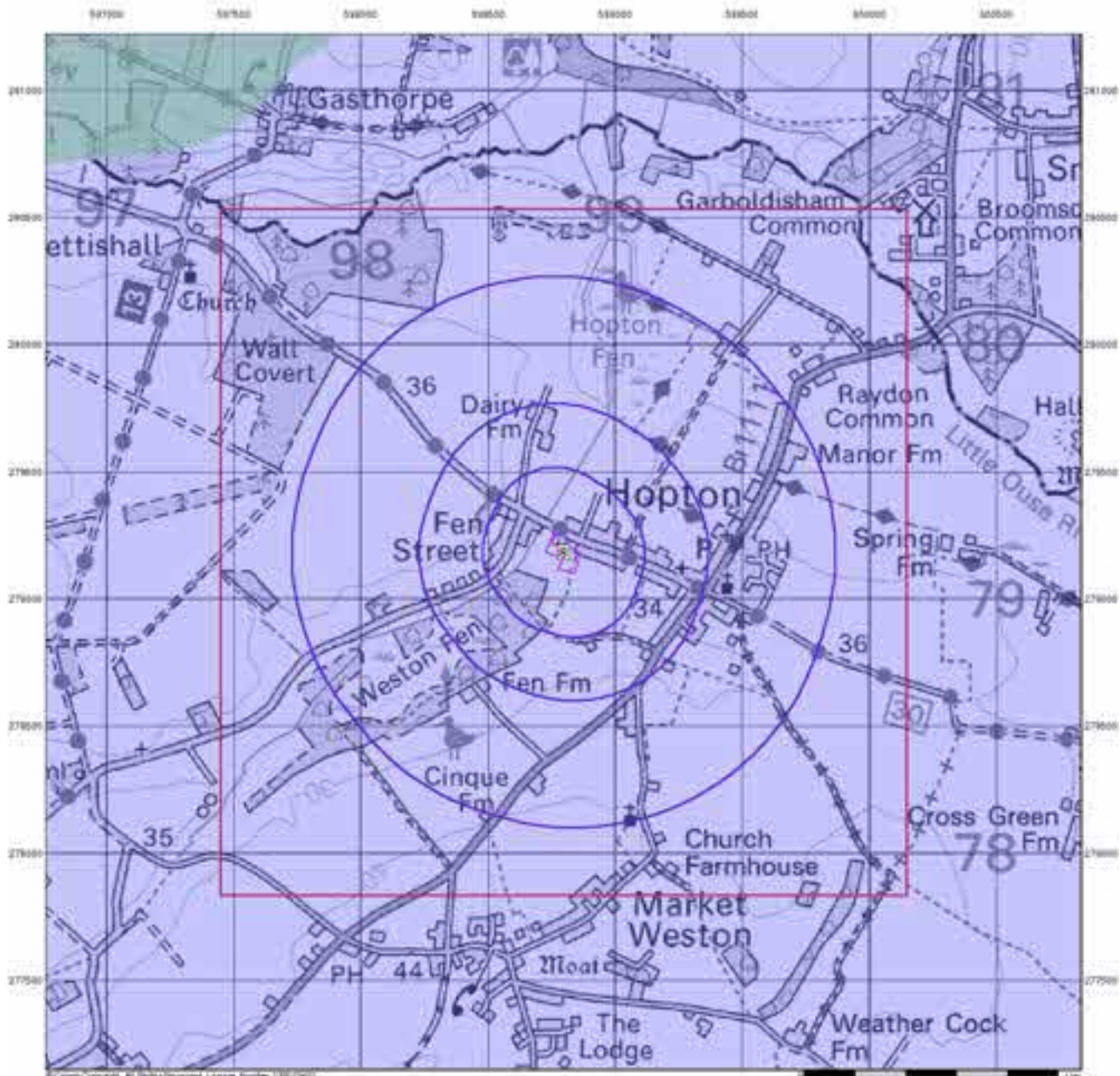


### Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

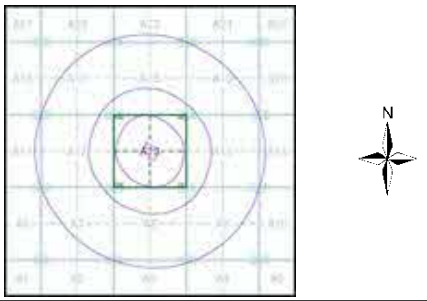
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Source Protection Zones**

- General**
- Specified Site
  - Specified Buffer
  - Bearing Reference Point
  - Slice
  - Map ID
- Agency and Hydrological**
- Inner zone (Zone 1)
  - Inner zone - subsurface activity only (Zone 1c)
  - Outer zone (Zone 2)
  - Outer zone - subsurface activity only (Zone 2c)
  - Total catchment (Zone 3)
  - Total catchment - subsurface activity only (Zone 3c)
  - Special interest (Zone 4)

**Site Sensitivity Context Map - Slice A**



**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

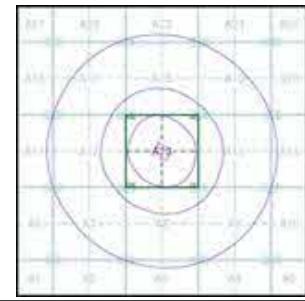
**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

**Sensitive Land Uses**

- General**
- Specified Site
  - Specified Subject
  - Bearing Reference Point
  - Tick
  - 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**



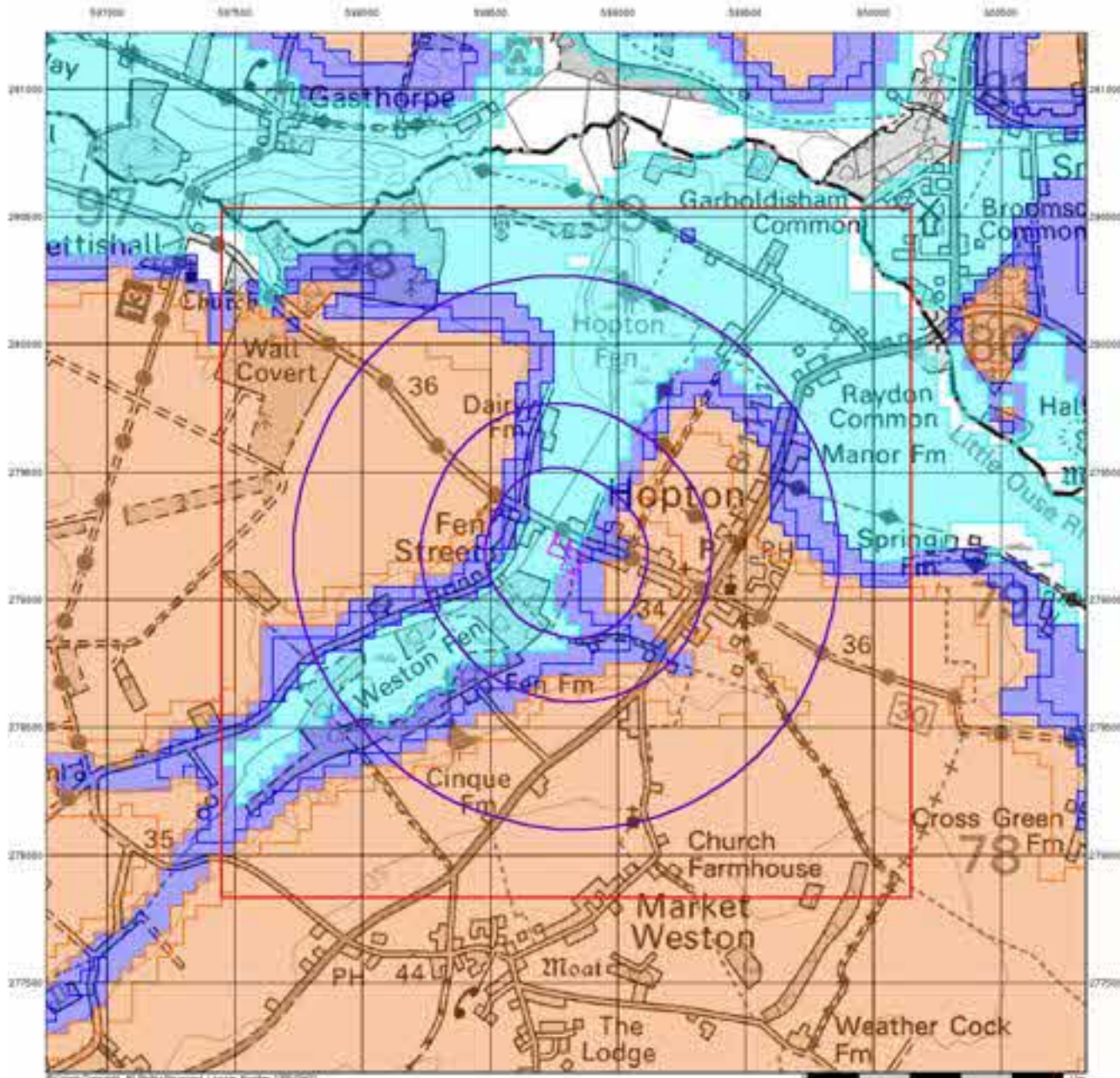
**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

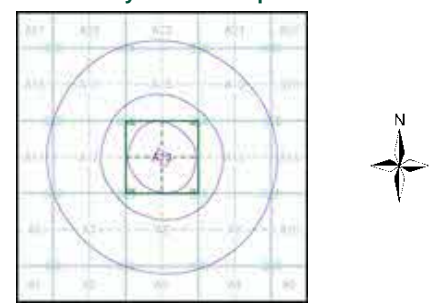




**BGS Flood GFS Data**

- General**
- Specified Site
  - Specified Buffer(s)
  - Existing 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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**


Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

## Geology 1:50,000 Maps Legends



### Artificial Ground and Landslip


Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

### Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	ALV	Alluvium	Silt and Clay	Not Supplied - Holocene
	ALV	Alluvium	Sand and Gravel	Not Supplied - Holocene
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian
	CXSG	Croxton Sand and Gravel Member	Sand and Gravel	Not Supplied - Anglian
	LFSC	Lodge Farm Silt and Clay Member	Clay, Silt and Sand	Not Supplied - Anglian
	ISAG	Ingham Sand and Gravel Formation	Sand and Gravel	Not Supplied - Pleistocene
	CNYSG	Coney Weston Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	CSD	Cover Sand	Sand	Not Supplied - Quaternary

### Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	NCK	Newhaven Chalk Formation	Chalk	Not Supplied - Santonian
	SNCK	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Coniacian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LPCK	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian



### 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:	2	Map ID:	1
Map Sheet No:	174	Map Sheet No:	175
Map Name:	Thetford	Map Name:	Dis
Map Date:	2010	Map Date:	1989
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Not Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

### Geology 1:50,000 Maps - Slice A



### Order Details:

Order Number: 280187841\_1\_1  
 Customer Reference: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

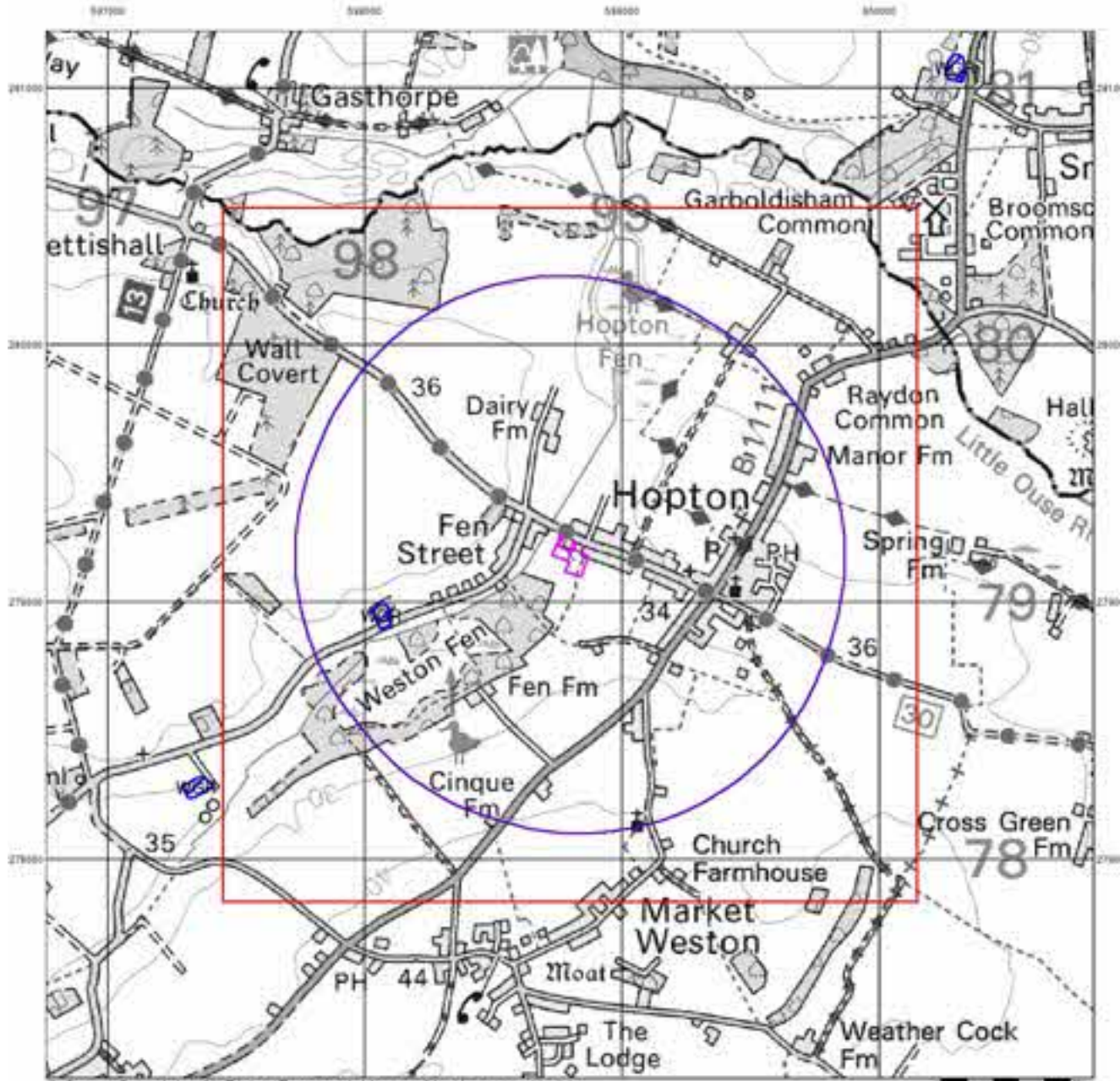
### Site Details:

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





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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**

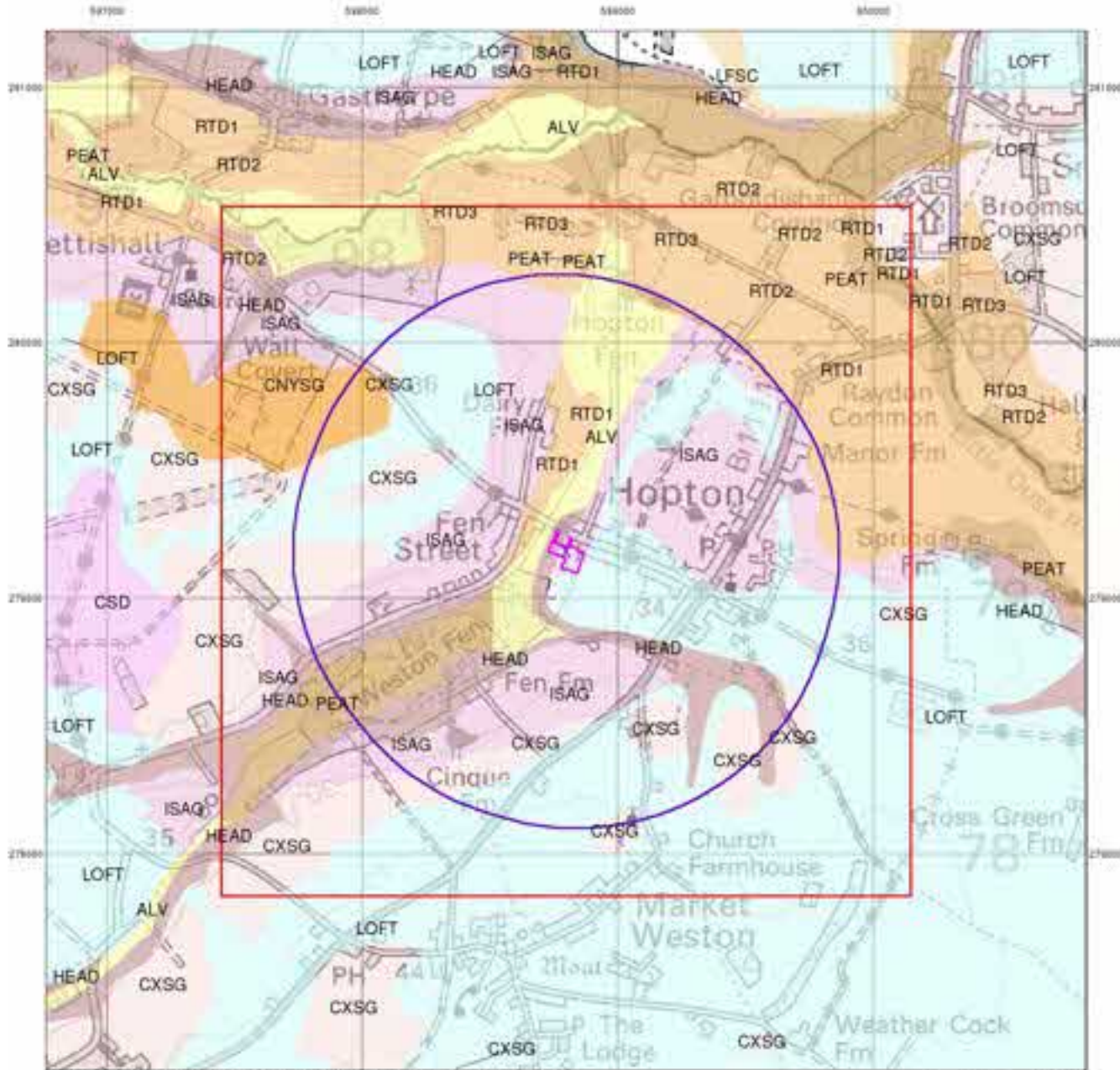


**Order Details:**

Order Number: 280187841\_1\_1  
 Customer Reference: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 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**

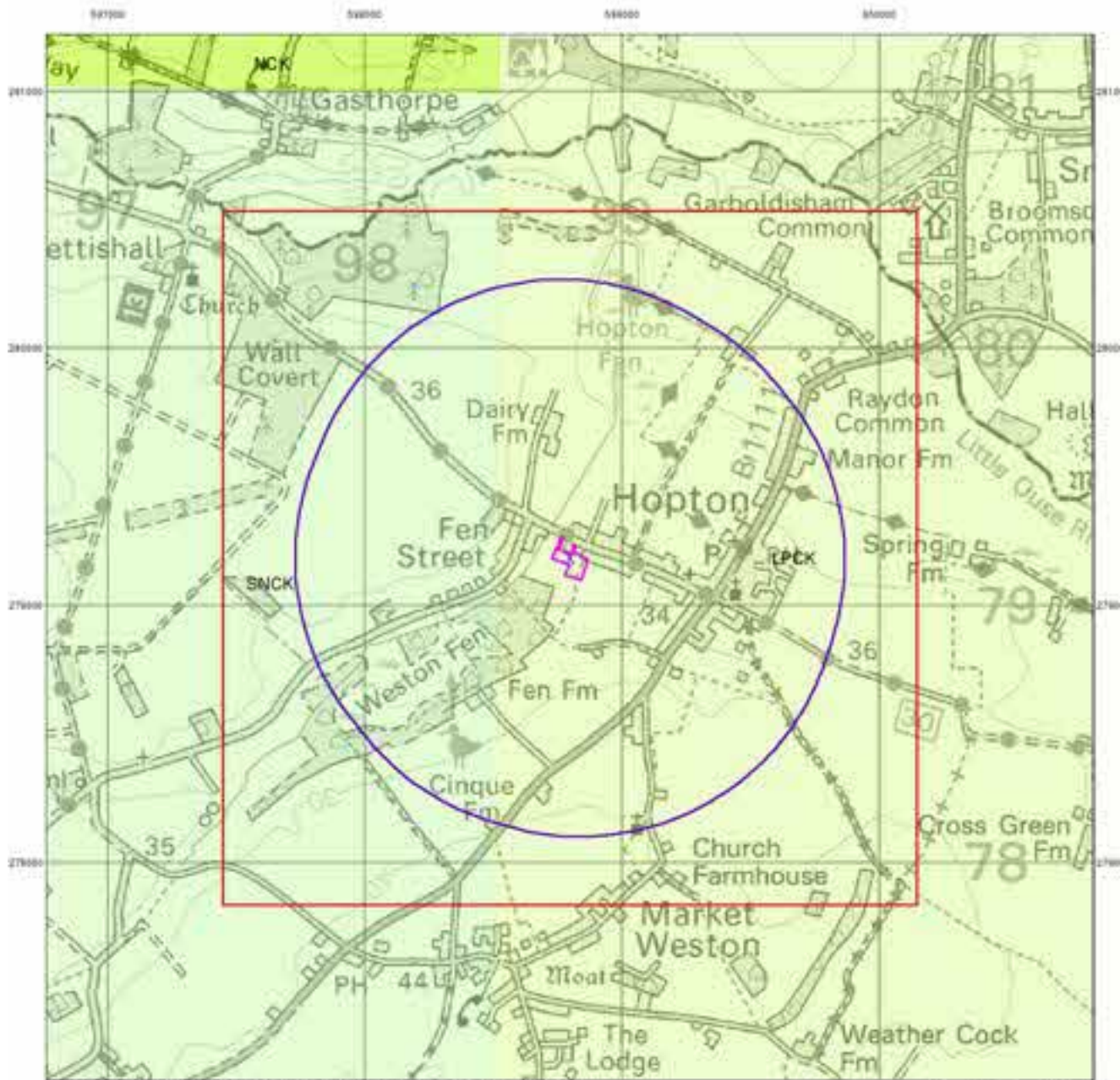


**Order Details:**

Order Number: 280187841\_1\_1  
 Customer Reference: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 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**

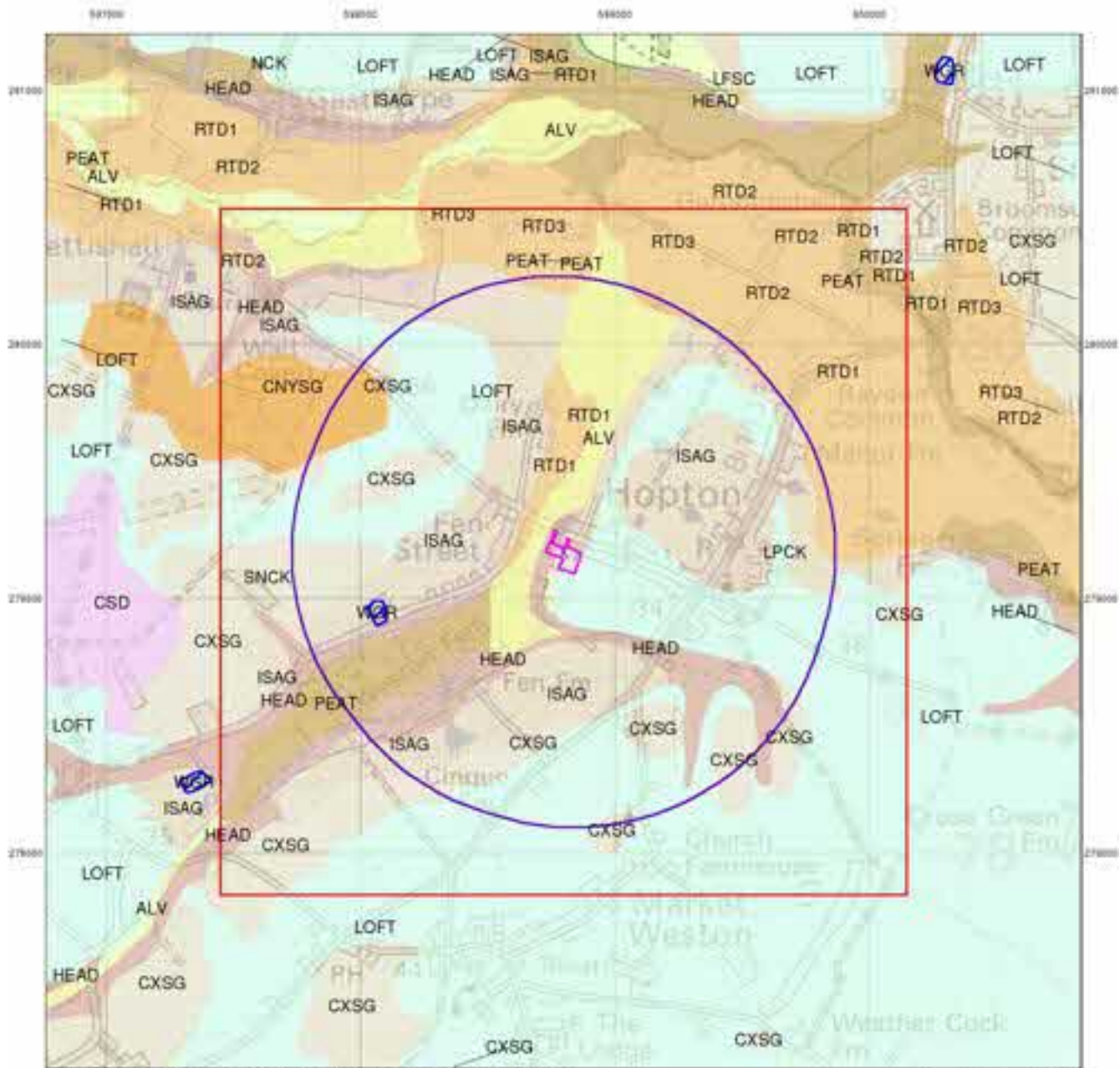


**Order Details:**

Order Number: 280187841\_1\_1  
 Customer Reference: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
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**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.

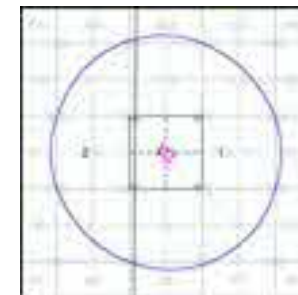
**Additional Information**

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**

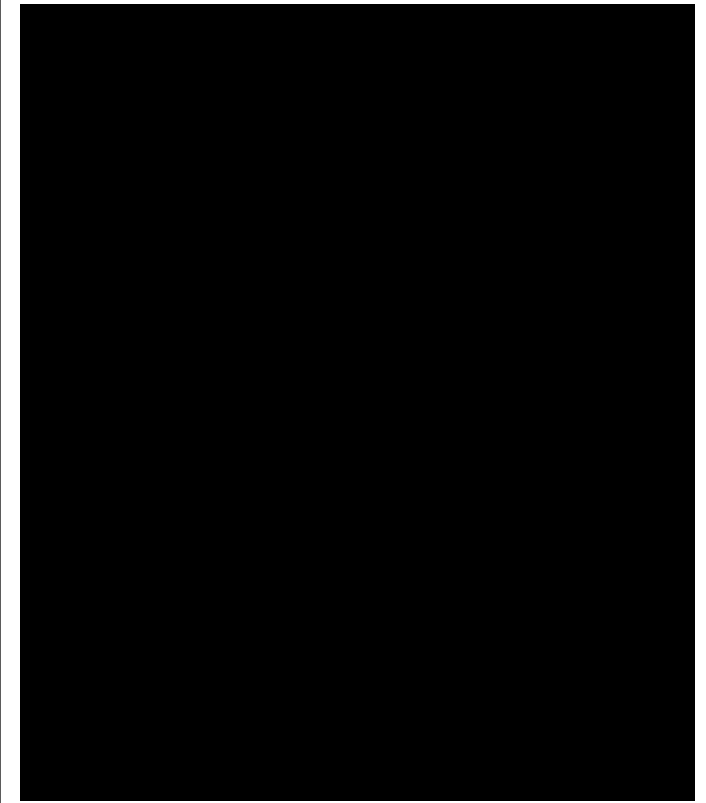


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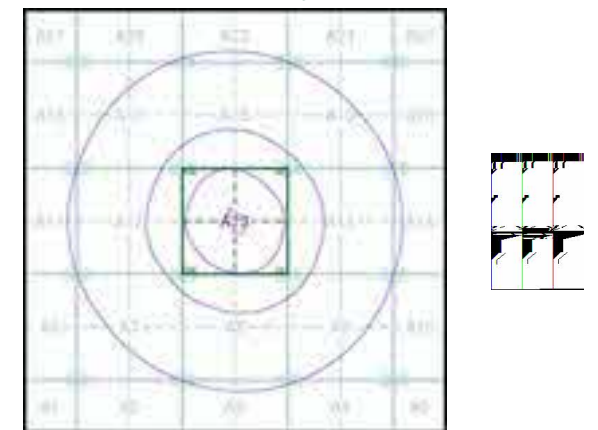
Order Number: 280187841\_1\_1  
 Customer Reference: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details:**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Estimated Soil Chemistry Arsenic - Slice A**

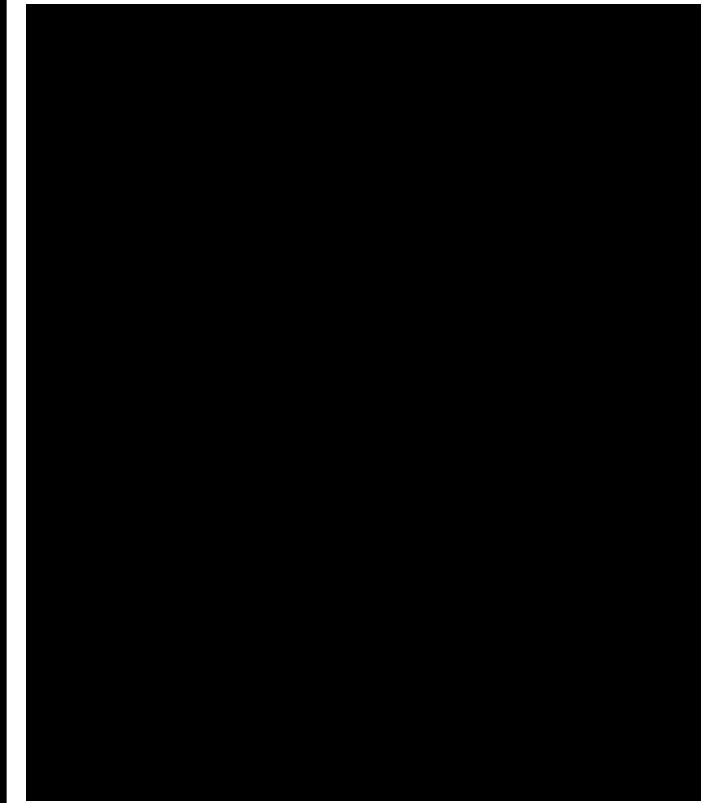


**Order Details**

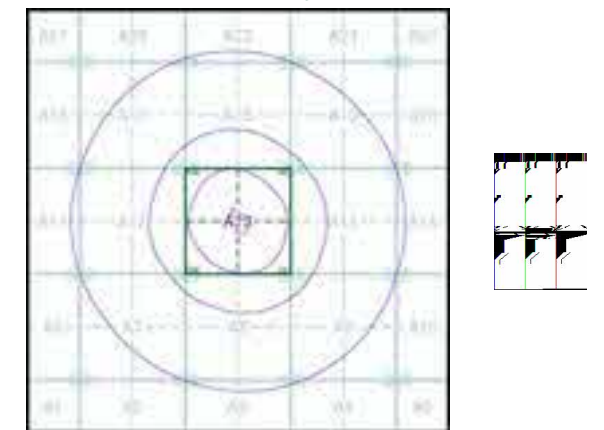
Order Details: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Estimated Soil Chemistry Cadmium - Slice A**

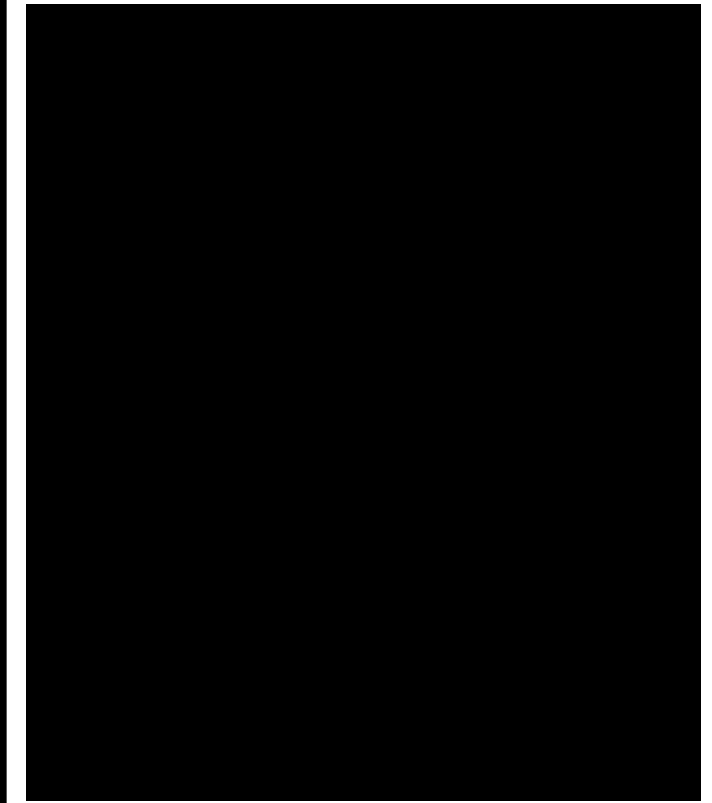


**Order Details**

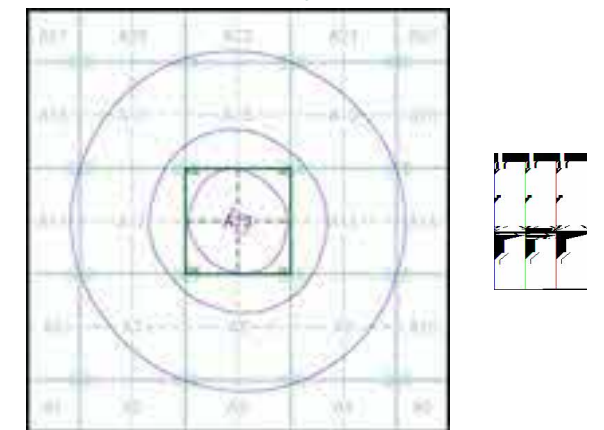
Order Details: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Estimated Soil Chemistry Chromium - Slice A**

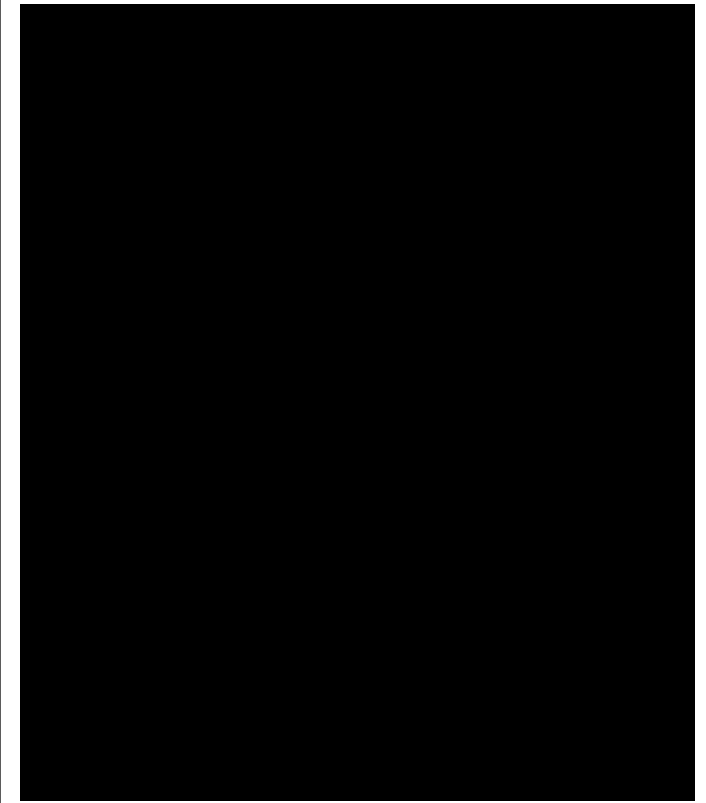


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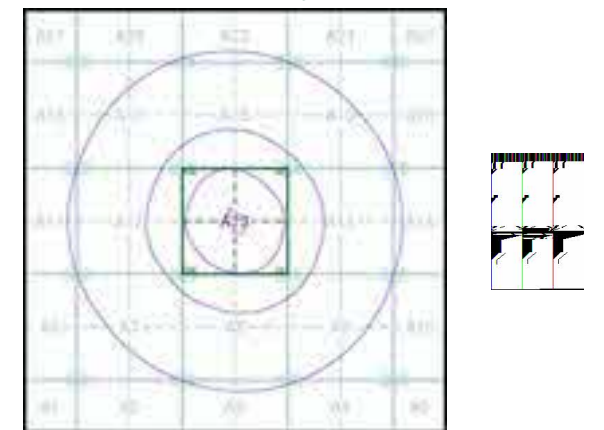
Order Details: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

**Site Details**

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**Estimated Soil Chemistry Lead - Slice A**



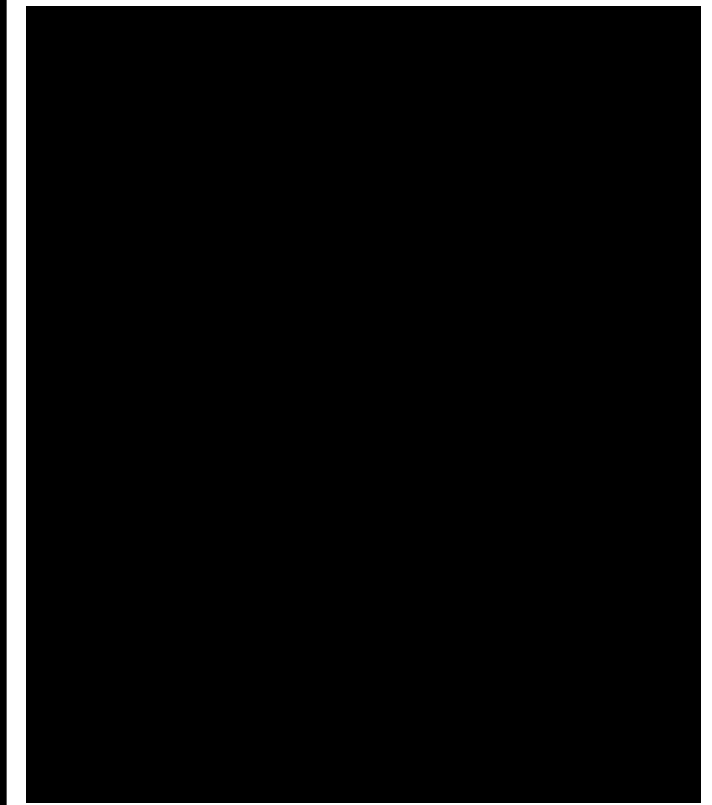
**Order Details**

Order Details: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

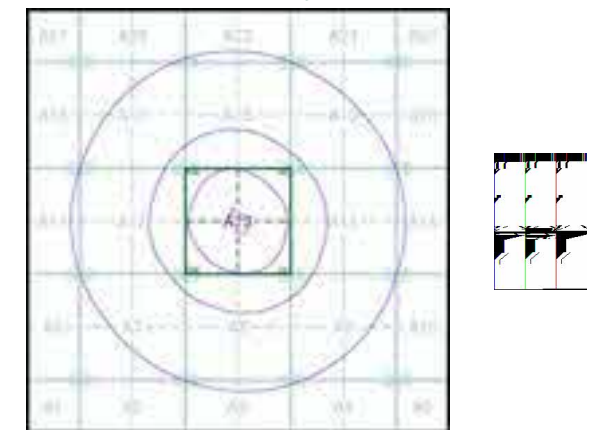
**Site Details**

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### Estimated Soil Chemistry Nickel - Slice A



### Order Details

Order Details: 280187841\_1\_1  
Customer Ref: 15874DS  
National Grid Reference: 598800, 279180  
Slice: A  
Site Area (Ha): 0.93  
Search Buffer (m): 1000

### Site Details

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## APPENDIX 3

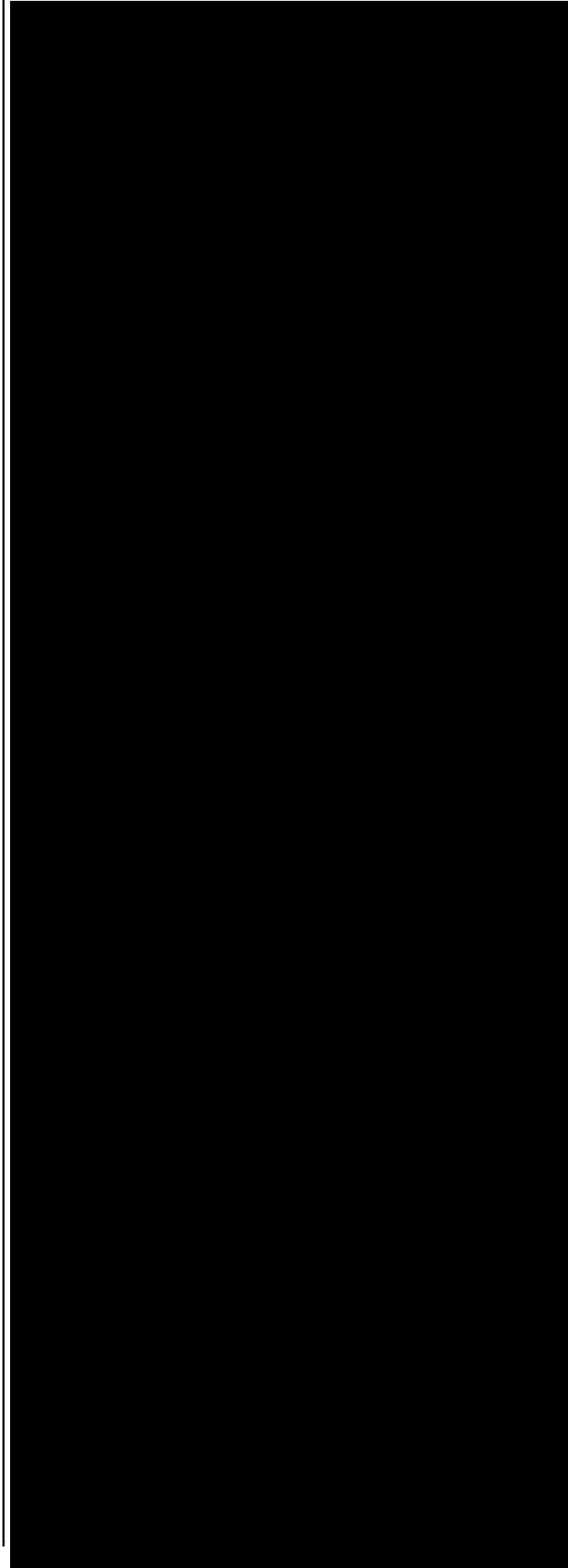
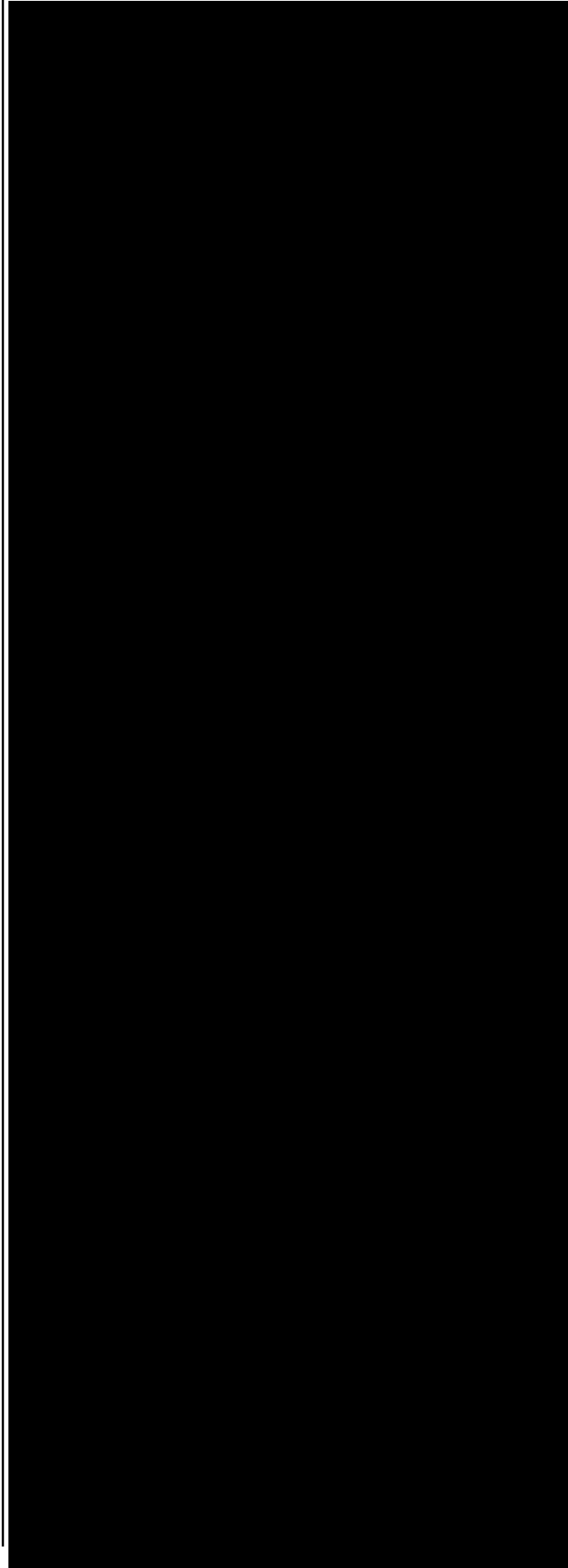
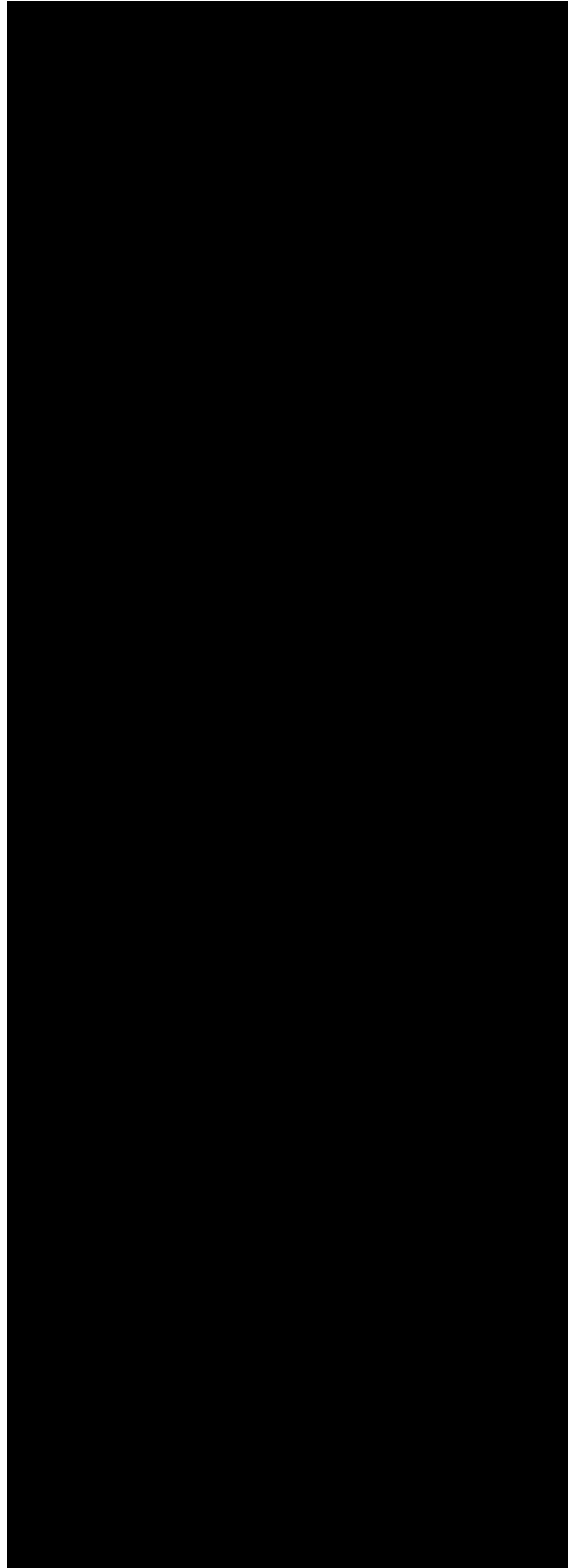
Landmark ordnance survey map extracts

# Historical Mapping Legends

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

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

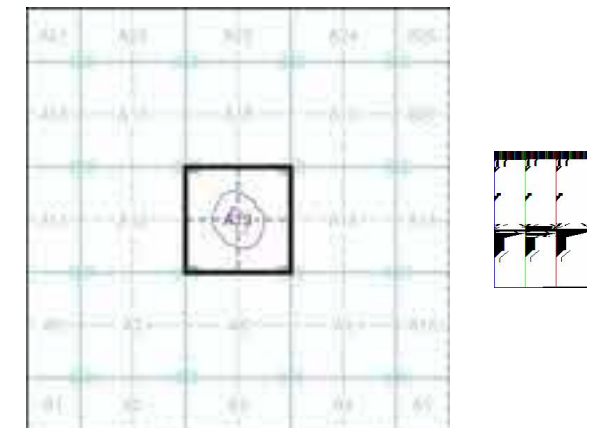
Large-Scale National Grid Data 1:2,500 and  
1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:2,500	1883	2
Norfolk	1:2,500	1885	3
Norfolk	1:2,500	1905	4
Suffolk	1:2,500	1905	5
Ordnance Survey Plan	1:2,500	1976	6
Large-Scale National Grid Data	1:2,500	1995	7
Historical Aerial Photography	1:2,500	1999	8

## Historical Map - Segment A13



## Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

## Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



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

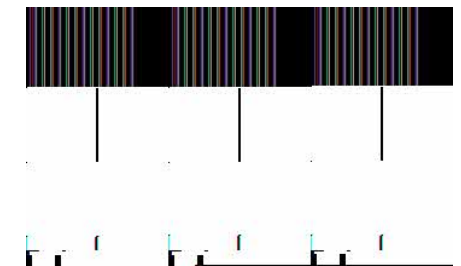
**Suffolk**

**Published 1883**

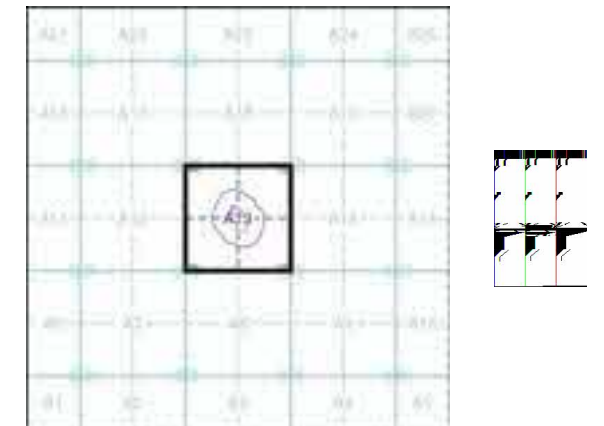
**Source map scale - 1:2,500**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

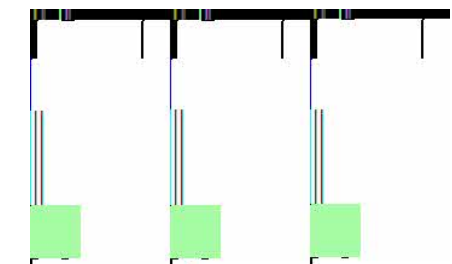
**Norfolk**

**Published 1885**

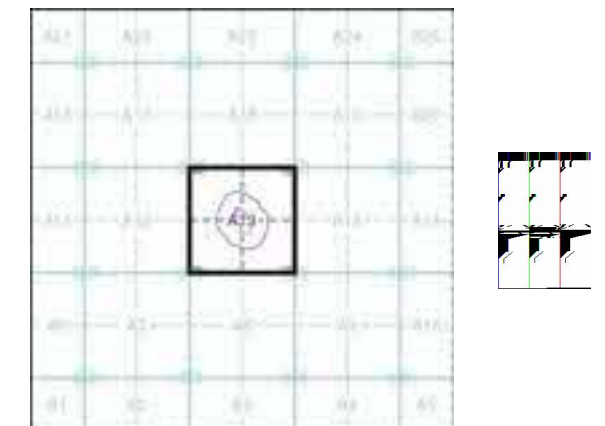
**Source map scale - 1:2,500**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

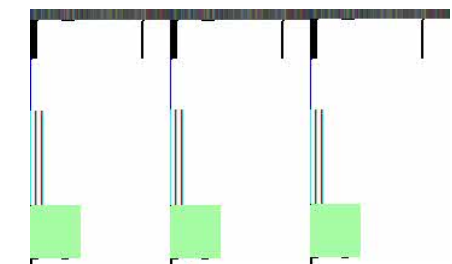
**Norfolk**

**Published 1905**

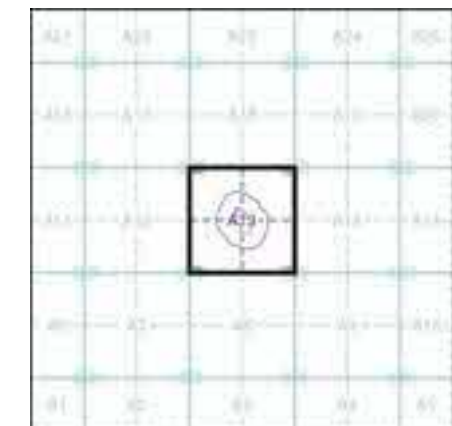
**Source map scale - 1:2,500**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
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**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

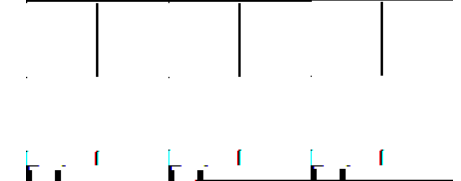
**Suffolk**

**Published 1905**

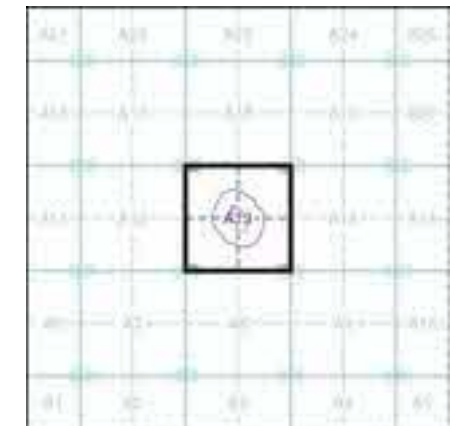
**Source map scale - 1:2,500**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

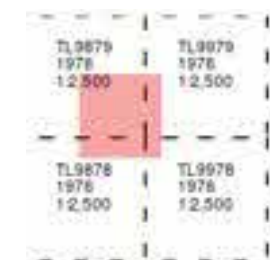
## Ordnance Survey Plan

Published 1976

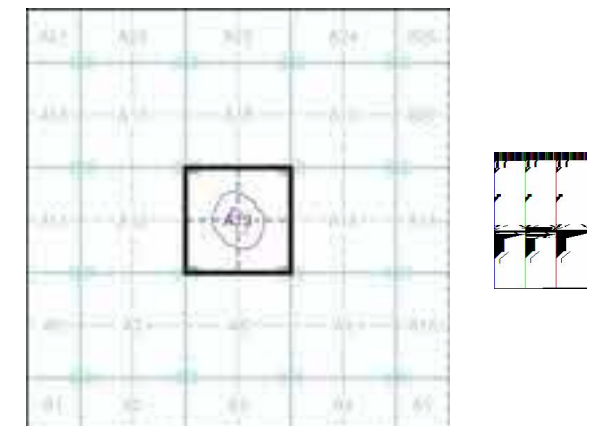
Source map scale - 1:2,500

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)



### Historical Map - Segment A13



### Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
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 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



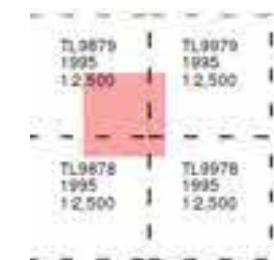
## Large-Scale National Grid Data

Published 1995

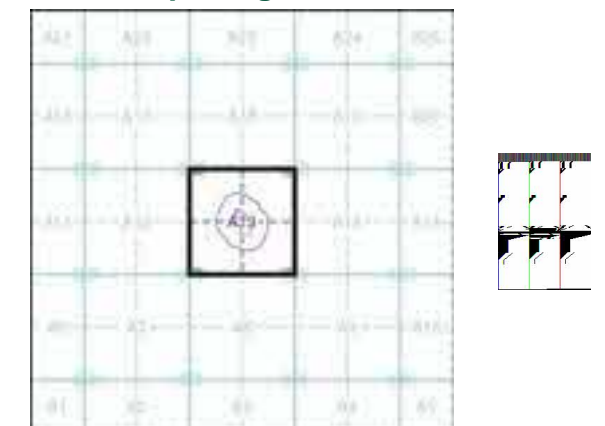
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

### Site Details

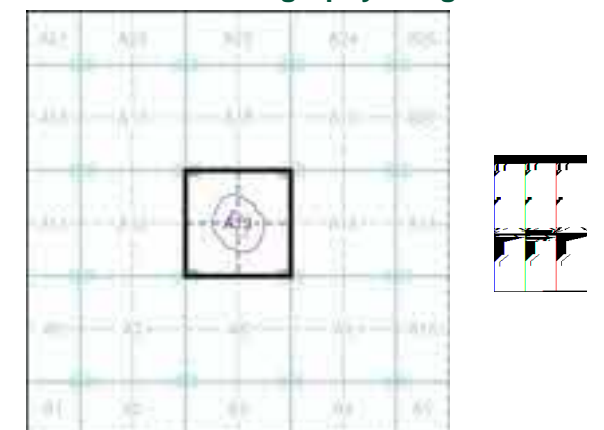
Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

## 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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 100

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

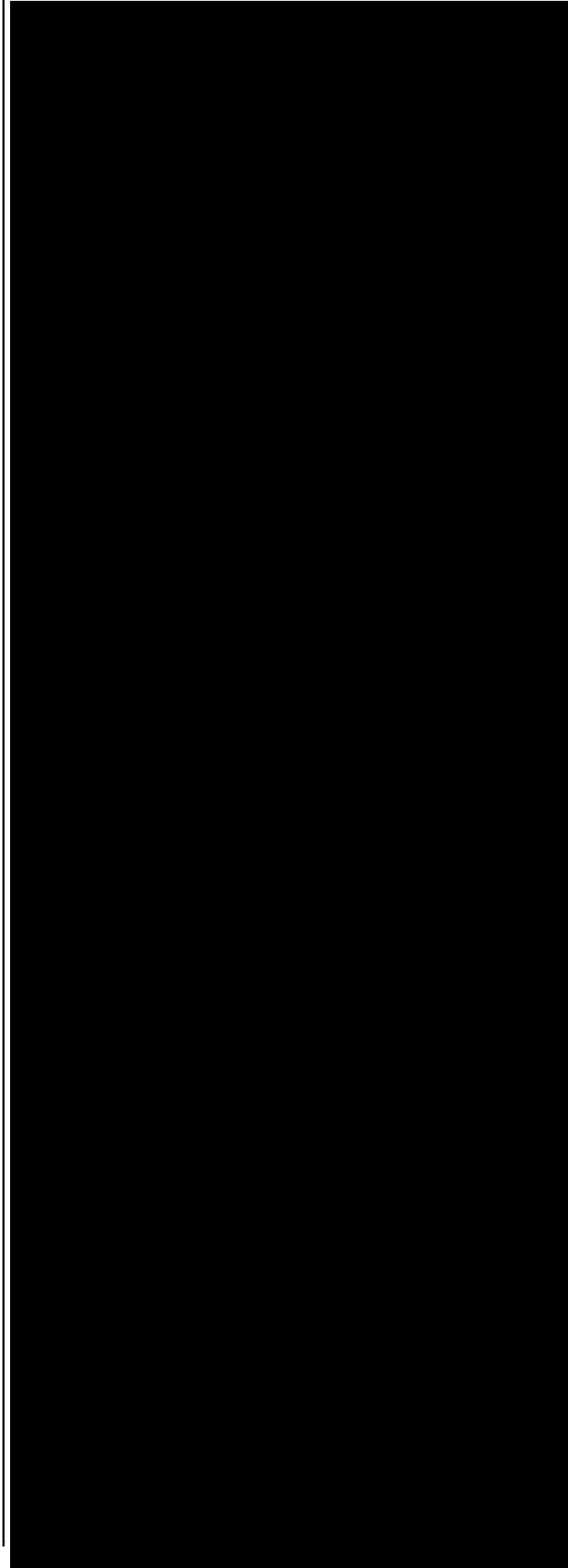
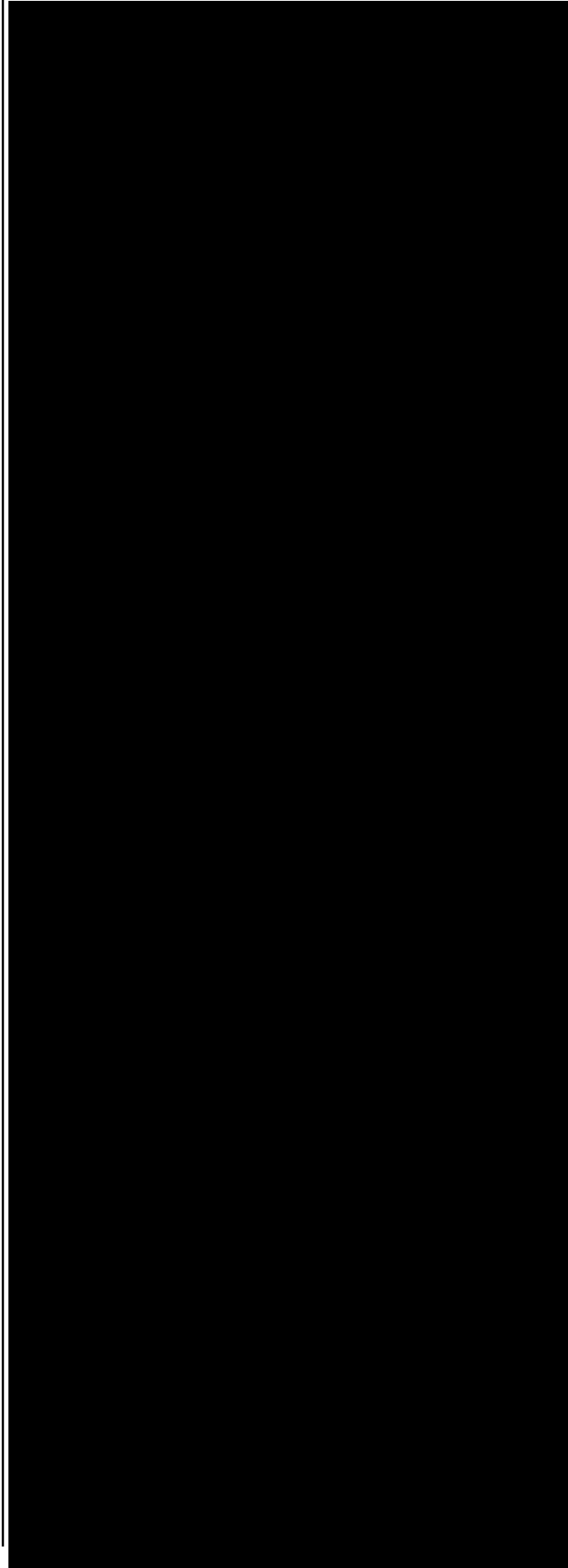
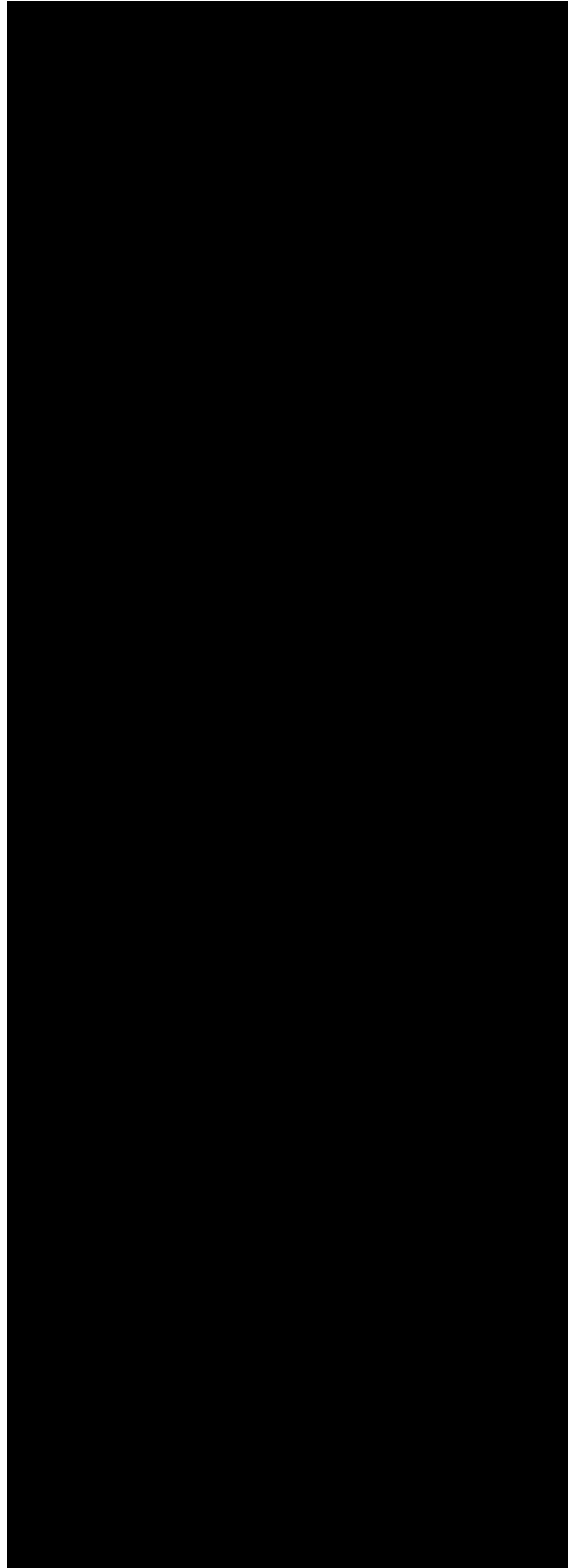


# Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Ordnance Survey Plan 1:10,000

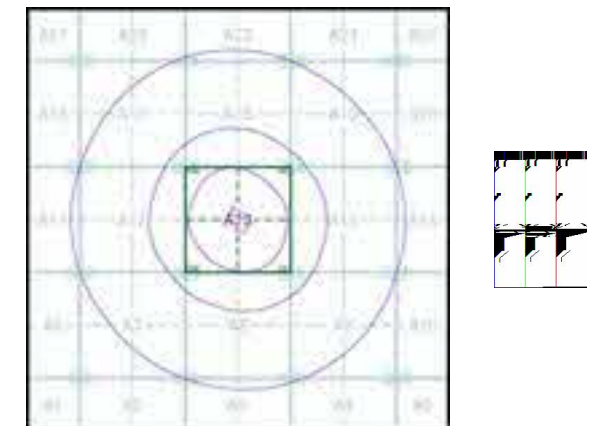
1:10,000 Raster Mapping



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Norfolk	1:10,560	1884	2
Suffolk	1:10,560	1884 - 1885	3
Suffolk	1:10,560	1905	4
Norfolk	1:10,560	1905	5
Norfolk	1:10,560	1905	6
Norfolk	1:10,560	1952 - 1953	7
Suffolk	1:10,560	1953	8
Ordnance Survey Plan	1:10,000	1958	9
Ordnance Survey Plan	1:10,000	1978	10
Ordnance Survey Plan	1:10,000	1983 - 1985	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2021	14

## Historical Map - Slice A



## Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

## Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



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

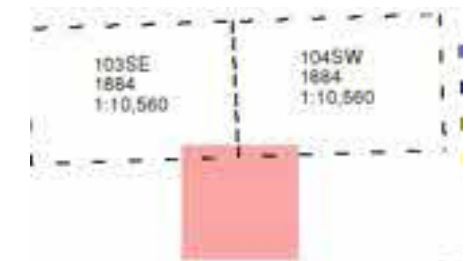
## Norfolk

Published 1884

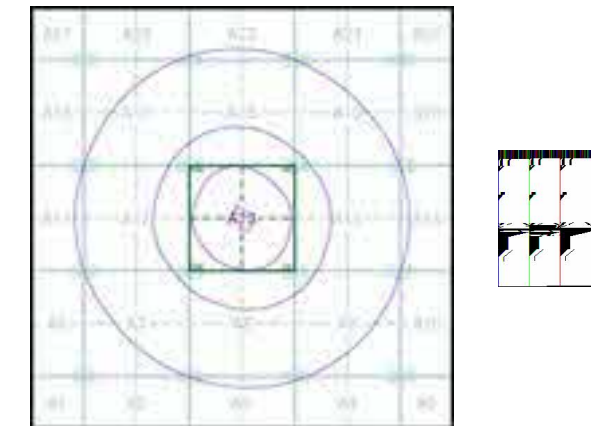
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

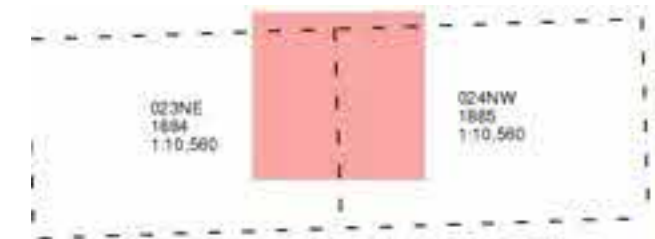
## Suffolk

Published 1884 - 1885

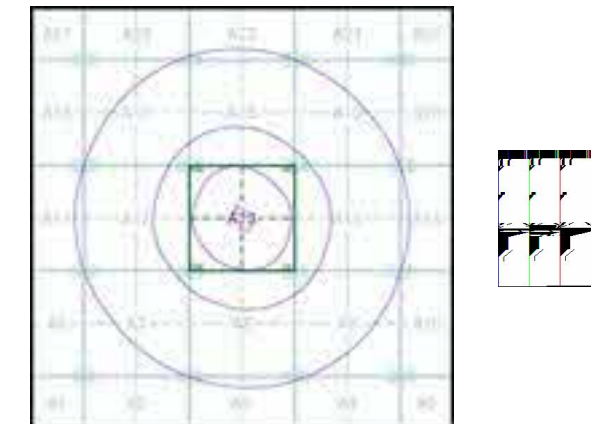
Source map scale - 1:10,560

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
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 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

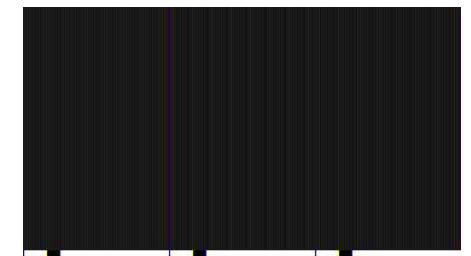
**Suffolk**

**Published 1905**

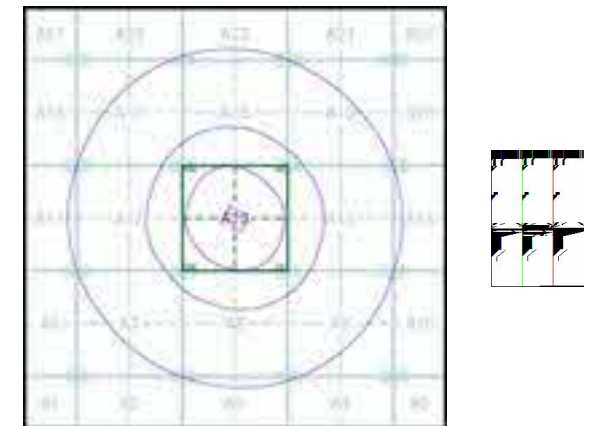
**Source map scale - 1:10,560**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

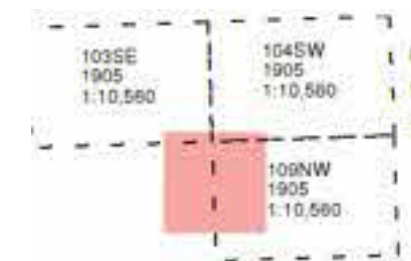
**Norfolk**

**Published 1905**

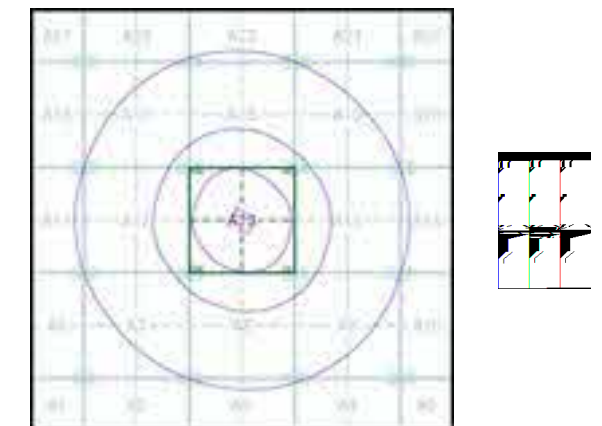
**Source map scale - 1:10,560**

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
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**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

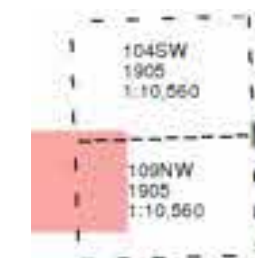
**Norfolk**

**Published 1905**

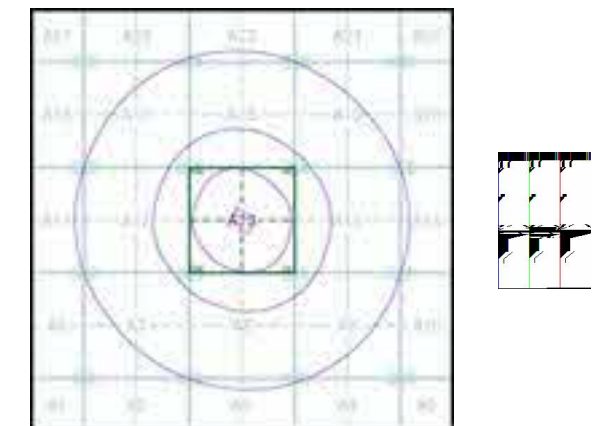
**Source map scale - 1:10,560**

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: 280187841\_1\_1  
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**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



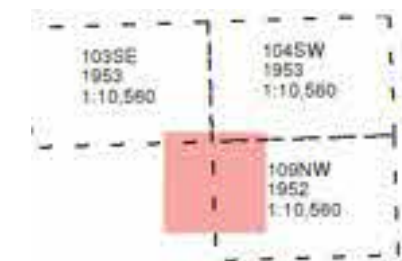
## Norfolk

Published 1952 - 1953

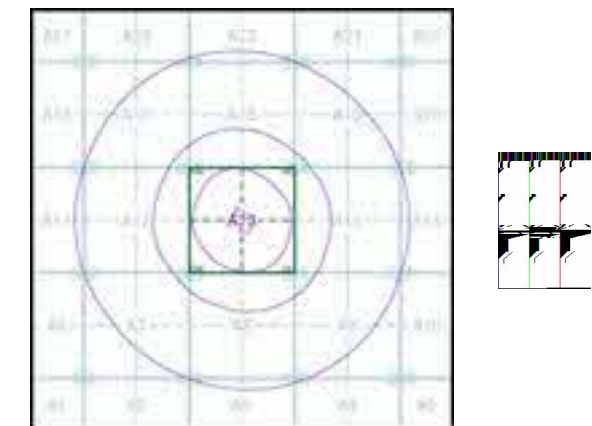
Source map scale - 1:10,560

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

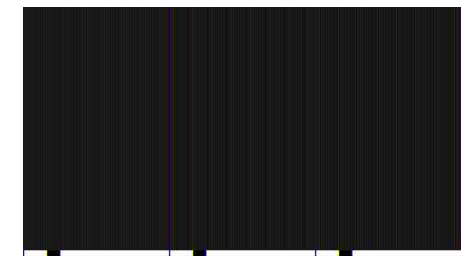
## Suffolk

Published 1953

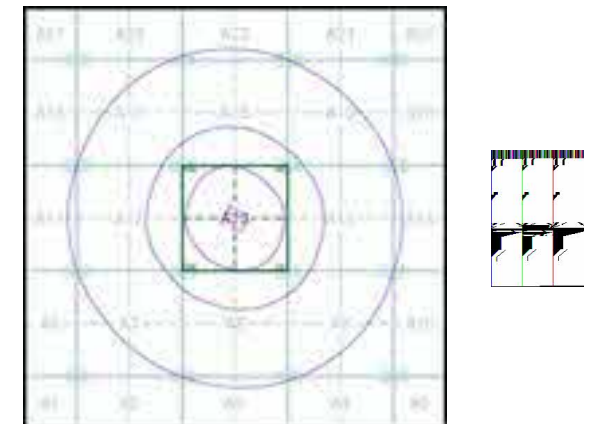
Source map scale - 1:10,560

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: 280187841\_1\_1  
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 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

## Ordnance Survey Plan

Published 1958

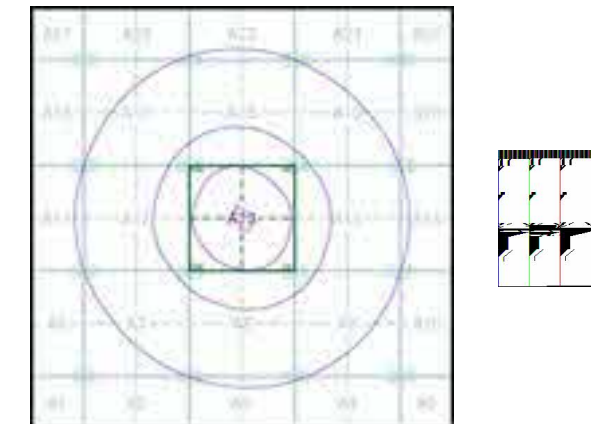
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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 Site Area (Ha): 0.93  
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### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

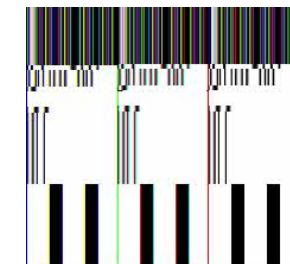
## Ordnance Survey Plan

Published 1978

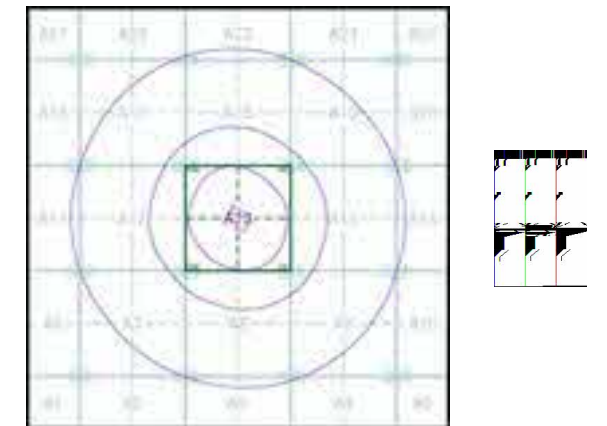
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 280187841\_1\_1  
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 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

## Ordnance Survey Plan

Published 1983 - 1985

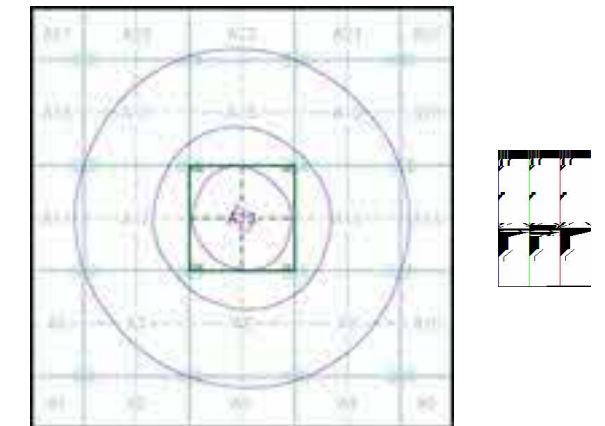
Source map scale - 1:10,000

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: 280187841\_1\_1  
 Customer Ref: 15874DS  
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 Slice: A  
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### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

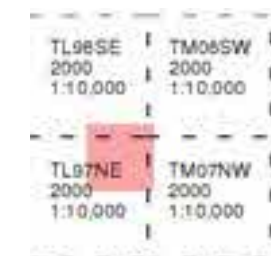
## 10k Raster Mapping

Published 2000

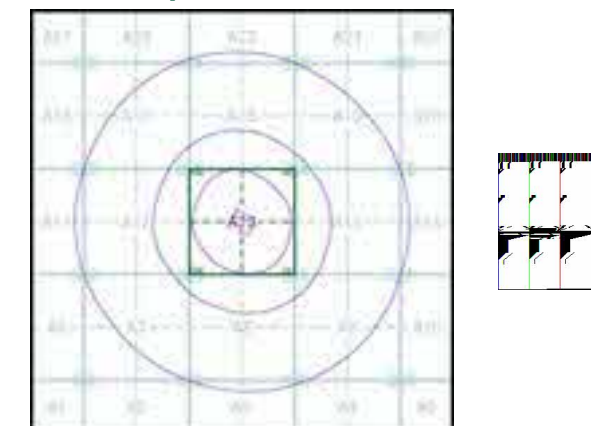
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 280187841\_1\_1  
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 Slice: A  
 Site Area (Ha): 0.93  
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### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

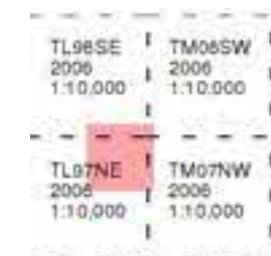
## 10k Raster Mapping

Published 2006

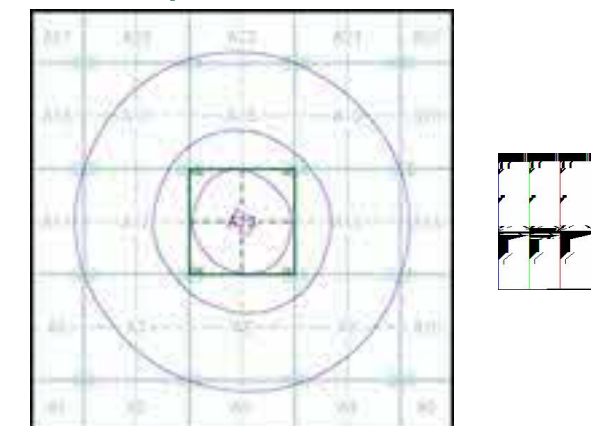
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 280187841\_1\_1  
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### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ

## VectorMap Local

Published 2021

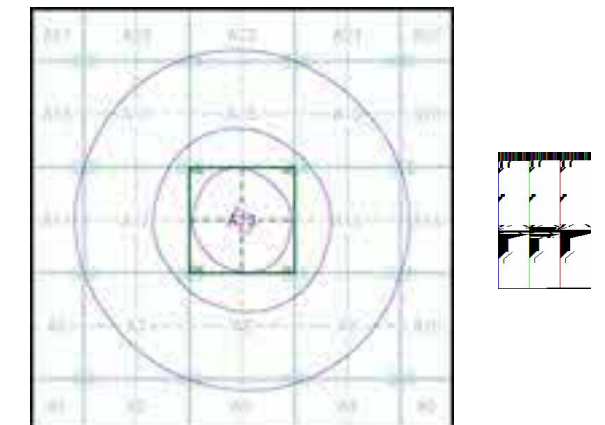
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

TL90SE	TM06SW
2021	2021
Variable	Variable
TL97NE	TM07NW
2021	2021
Variable	Variable

### Historical Map - Slice A



### Order Details

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

### Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



## APPENDIX 4

Mining and ground stability datasheet

## **Envirocheck<sup>®</sup> Report:**

### **Mining and Ground Stability Datasheet**

#### **Order Details:**

**Order Number:**

280187841\_1\_1

**Customer Reference:**

15874DS

**National Grid Reference:**

598800, 279180

**Slice:**

A

**Site Area (Ha):**

0.93

**Search Buffer (m):**

1000

#### **Site Details:**

Orchid Meadows, Nethergate Street

Hopton

DISS

IP22 2QZ

#### **Client Details:**

Ms A Holden

RSA Geotechnics Ltd

Ashburnham House

1 Maitland Road

Lion Barn Estate

Needham Market

Suffolk

IP6 8NZ

Report Section and Details	Page Number
<b>Summary</b>	-
<p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.</p> <p>For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).</p>	
<b>Mining and Natural Cavities Data</b>	<b>1</b>
<p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>	
<b>Historical Land Use Information (1:2,500)</b>	-
<p>The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.</p> <p>For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.</p>	
<b>Historical Land Use Information (1:10,000)</b>	<b>3</b>
<p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>	
<b>Ground Stability Data (1:50,000)</b>	<b>4</b>
<p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>	
<b>Historical Map List</b>	<b>5</b>
<p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>	
<b>Data Currency</b>	<b>6</b>
<b>Data Suppliers</b>	<b>7</b>
<b>Useful Contacts</b>	<b>8</b>

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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#### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
<b>Mining and Natural Cavities Data</b>					
BGS Recorded Mineral Sites	pg 1		2	1	7
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 2	Yes		n/a	n/a
Potential Mining Areas					
<b>Historical Land Use Information (1:2,500)</b>					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
<b>Historical Land Use Information (1:10,000)</b>					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 3		1	1	1
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 3			1	
Potentially Infilled Land (Water)					
<b>Ground Stability Data (1:50,000)</b>					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Report Version v53.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>BGS Recorded Mineral Sites</b> Site Name: Hopton Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210343 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (S)	193	1	598889 278915
2	<b>BGS Recorded Mineral Sites</b> Site Name: Hopton Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210344 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NE (E)	215	1	599080 279196
3	<b>BGS Recorded Mineral Sites</b> Site Name: Fen Farm Gravel Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210313 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Ingham Sand And Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	402	1	598753 278708
4	<b>BGS Recorded Mineral Sites</b> Site Name: Fen Street Gravel Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210304 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Ingham Sand And Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SW (W)	714	1	598055 278947
5	<b>BGS Recorded Mineral Sites</b> Site Name: Wall Covert Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210299 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NW (W)	779	1	597956 279280
6	<b>BGS Recorded Mineral Sites</b> Site Name: Dairy Farm Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210301 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	793	1	598134 279749

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>BGS Recorded Mineral Sites</b> Site Name: Dairy Farm Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210302 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	809	1	598150 279795
7	<b>BGS Recorded Mineral Sites</b> Site Name: Dairy Farm Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210303 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	809	1	598297 279929
8	<b>BGS Recorded Mineral Sites</b> Site Name: Wall Covert Pit Location: Hopton, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210300 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Croxton Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NW (W)	838	1	597927 279427
9	<b>BGS Recorded Mineral Sites</b> Site Name: Fen Street Pit Location: Market Weston, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 210306 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Ingham Sand And Gravel Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12SW (W)	958	1	597817 278890
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182

## Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1984	A13NW (NW)	223	-	598553 279351
11	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1905 - 1958	A8NW (S)	403	-	598764 278705
12	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1887 - 1958	A12SW (W)	667	-	598104 278949
13	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1984	A8NW (S)	403	-	598764 278705



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>CBCSB Compensation District</b> The site does not fall within the brine compensation area.				
	<b>Brine Subsidence Solution Area</b> The site does not fall within the brine subsidence solution area.				
14	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
15	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
16	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
17	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	598772 279194
18	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	132	1	598601 279217
19	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	199	1	599027 279297
20	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	23	1	598754 279128
21	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
22	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	18	1	598719 279211
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	23	1	598754 279128
23	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	598834 279134
24	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	598772 279194
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	1	598797 279182
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	84	1	598663 279248

The following mapping has been analysed for Historical Land Use Information (1:2,500):








1:2,500	Mapsheets	Published Date
Ordnance Survey Plan	TL9878	1976
Ordnance Survey Plan	TL9879	1976
Ordnance Survey Plan	TL9978	1976
Ordnance Survey Plan	TL9979	1976

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheets	Published Date
Suffolk	023_NE	1887
Norfolk	103_SE	1887
Norfolk	104_SW	1888
Suffolk	024_NW	1891
Norfolk	109_NW	1891
Suffolk	014_SE	1905
Suffolk	015_SW	1905
Suffolk	023_NE	1905
Suffolk	024_NW	1905
Norfolk	103_SE	1905
Norfolk	104_SW	1905
Norfolk	109_NW	1905
Norfolk	109_NW	1952
Suffolk	023_NE	1953
Norfolk	103_SE	1953
Norfolk	104_SW	1953
Ordnance Survey Plan	TL97NE	1958
Ordnance Survey Plan	TL98SE	1958
Ordnance Survey Plan	TM07NW	1958
Ordnance Survey Plan	TM08SW	1958
1:10,000	Mapsheets	Published Date
Ordnance Survey Plan	TL98SE	1983
Ordnance Survey Plan	TL97NE	1984
Ordnance Survey Plan	TM07NW	1984
Ordnance Survey Plan	TM08SW	1985

Mining and Cavities Data	Version	Update Cycle
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Man Made Mining Cavities</b> Stantec UK Ltd	May 2021	Bi-Annually
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural Cavities</b> Stantec UK Ltd	May 2021	Bi-Annually
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
<b>Subterranean Features</b> Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	April 2020	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Brine Subsidence Solution Area</b> Johnson Poole & Bloomer	December 2020	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> 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
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Historical Land Use Information (1:2,500)

General

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

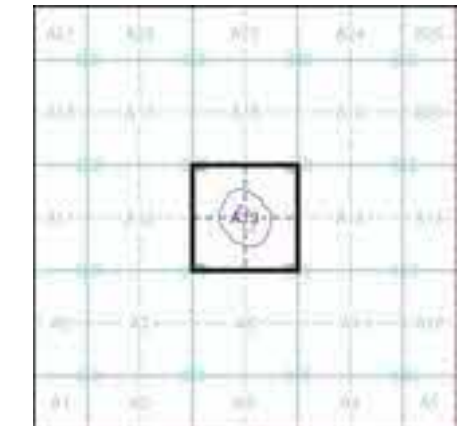
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	---	■

Mining and Ground Stability - Segment A13

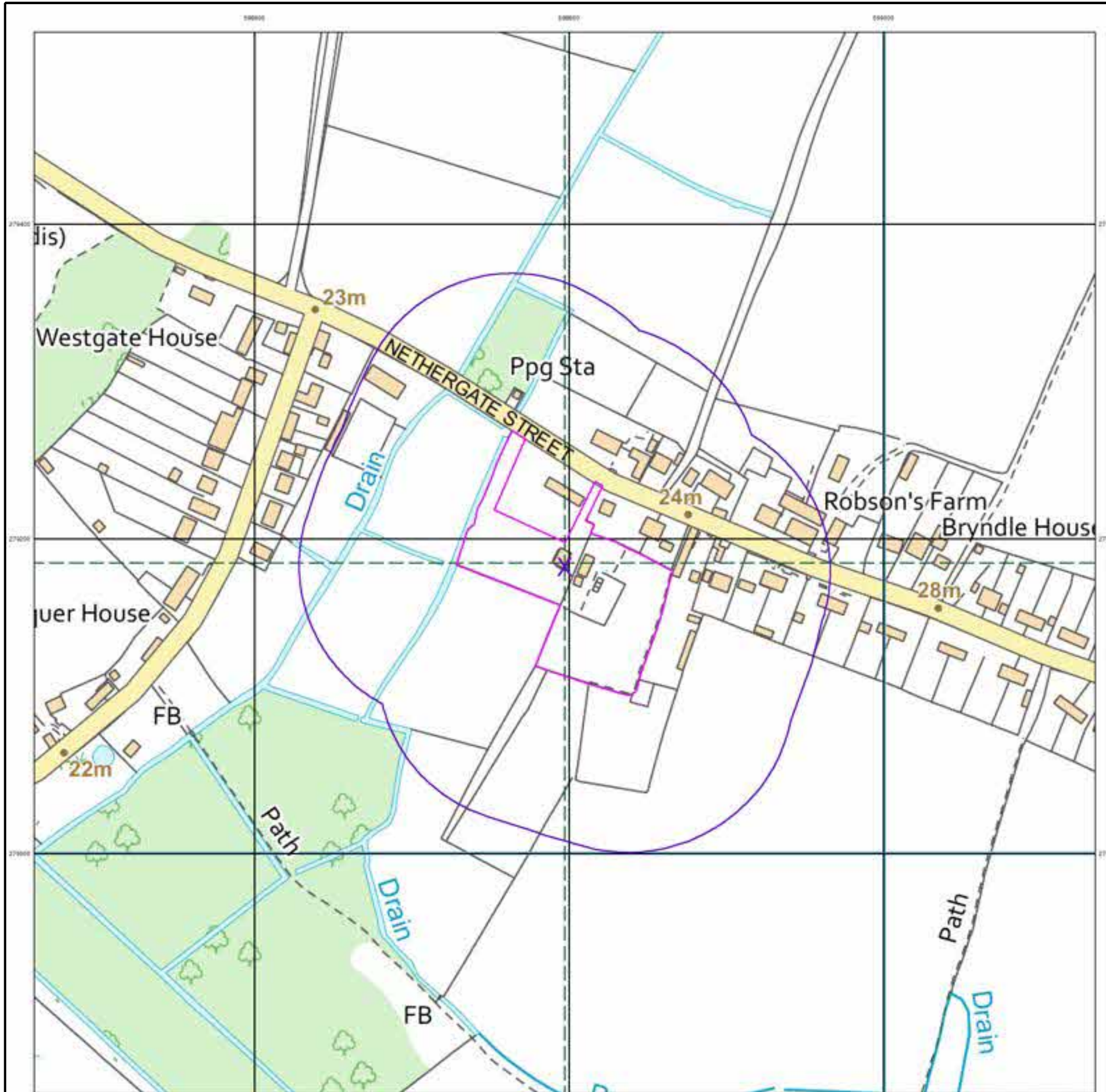


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 Slice: A  
 Site Area (Ha): 0.93  
 Plot Buffer (m): 100

Site Details

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Historical Land Use Information (1:10,000)**

**General**

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

**Potentially Contaminative Industrial Uses (Past Land Uses - Mining)**

	Point	Line	Polygon
Air Shafts	<span style="color: cyan;">◆</span>	<span style="color: cyan;">—</span>	<span style="background-color: cyan; border: 1px solid cyan;">□</span>
Disturbed Ground	<span style="color: purple;">◆</span>	<span style="color: purple;">—</span>	<span style="background-color: purple; border: 1px solid purple;">□</span>
General Quarrying	<span style="color: brown;">◆</span>	<span style="color: brown;">—</span>	<span style="background-color: brown; border: 1px solid brown;">□</span>
Heap, unknown constituents	<span style="color: green;">◆</span>	<span style="color: green;">—</span>	<span style="background-color: green; border: 1px solid green;">□</span>
Mineral Railway	<span style="color: green;">◆</span>	<span style="color: green;">—</span>	<span style="background-color: green; border: 1px solid green;">□</span>
Mining and Quarrying General	<span style="color: red;">◆</span>	<span style="color: red;">—</span>	<span style="background-color: red; border: 1px solid red;">□</span>
Mining of Coal & Lignite	<span style="color: blue;">◆</span>	<span style="color: blue;">—</span>	<span style="background-color: blue; border: 1px solid blue;">□</span>
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	<span style="color: orange;">◆</span>	<span style="color: orange;">—</span>	<span style="background-color: orange; border: 1px solid orange;">□</span>

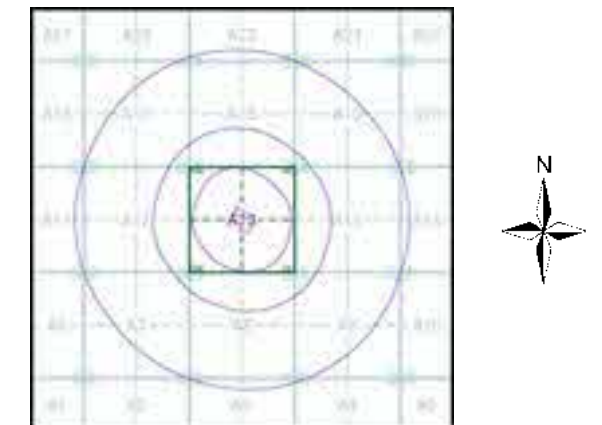
**Historical Land Use**

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	<span style="color: brown;">●</span>	<span style="color: brown;">- - -</span>	<span style="background-color: brown; border: 1px solid brown;">□</span>
Potentially Infilled Land (Water)	<span style="color: green;">●</span>	<span style="color: green;">- - -</span>	<span style="background-color: green; border: 1px solid green;">□</span>
Former Marsh	<span style="color: blue;">✕</span>		

**Mining Data**

- Potential Mining Area
- BGS Recorded Mineral Site

**Mining and Ground Stability - Slice A**

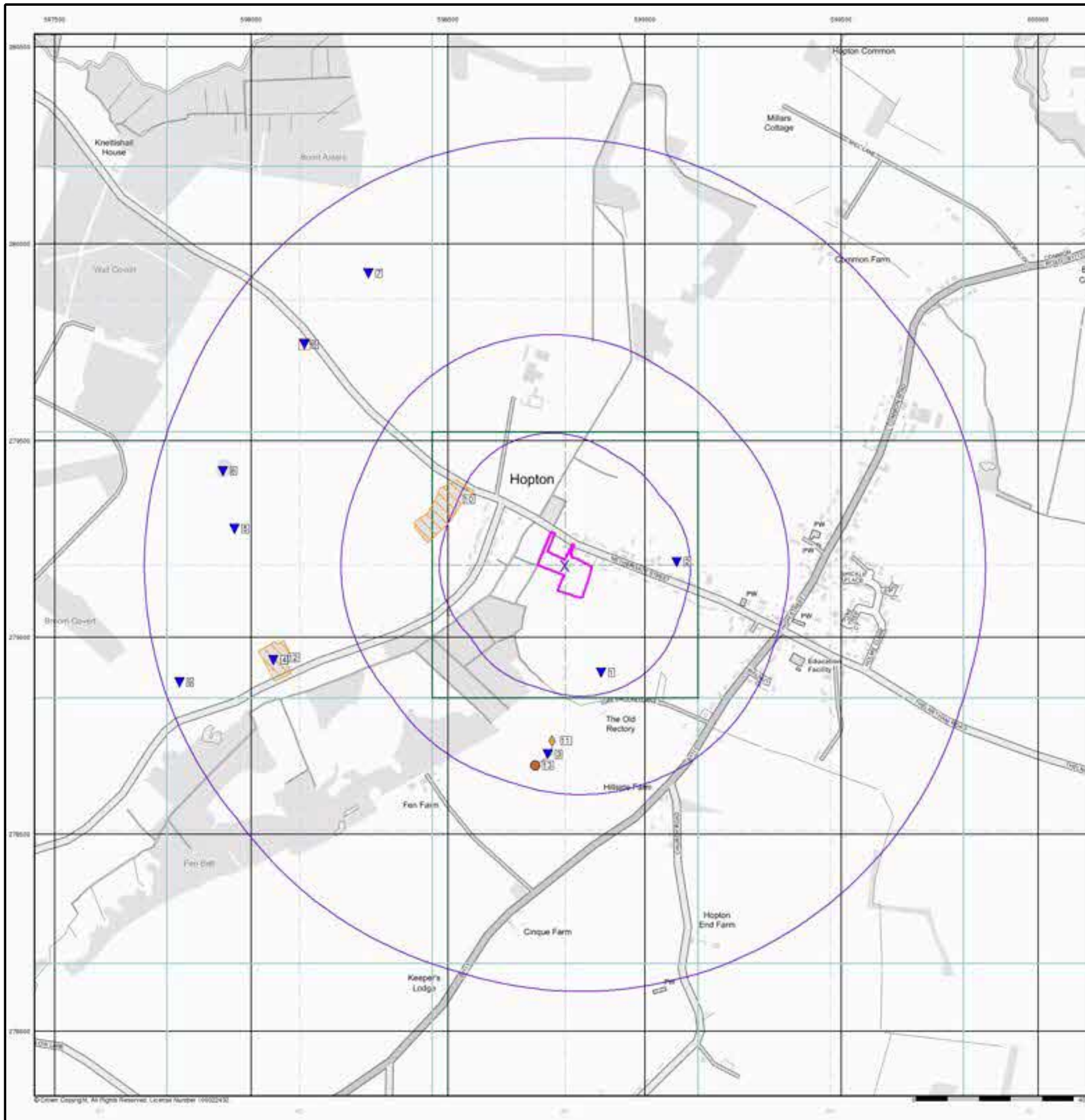


**Order Details**

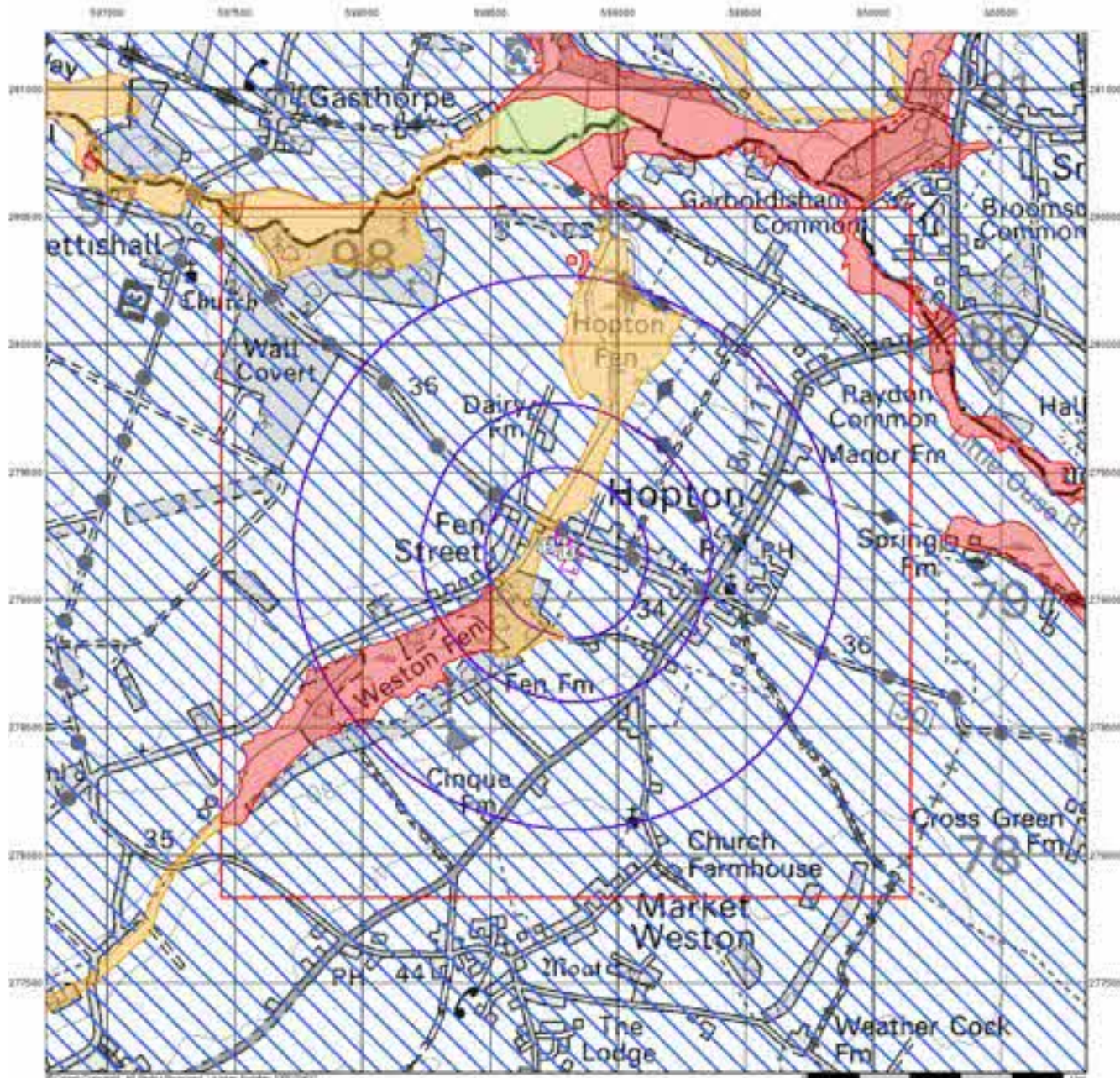
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**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



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**Ground Stability Data (1:50,000)**

**General**

- Specified Date
- Specified Buffer(s)
- Sealing Reference Point
- Site
- Map ID

**Potential for Compressible Ground Stability Hazards**

- High
- Moderate
- Low
- Very Low

**Potential for Collapsible Ground Stability Hazards**

- High
- Moderate
- Low
- Very Low

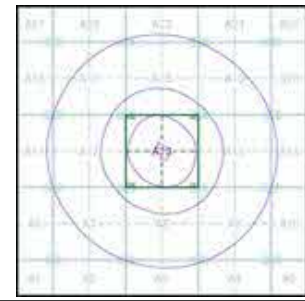
**Brine Pumping and Salt Mining**

- Brine Pumping Related Feature
- Salt Mining Related Feature

**Point Polygon**

- Point: Green triangle, Blue triangle
- Polygon: Green hatched, Blue hatched

**Mining and Ground Stability - Slice A**



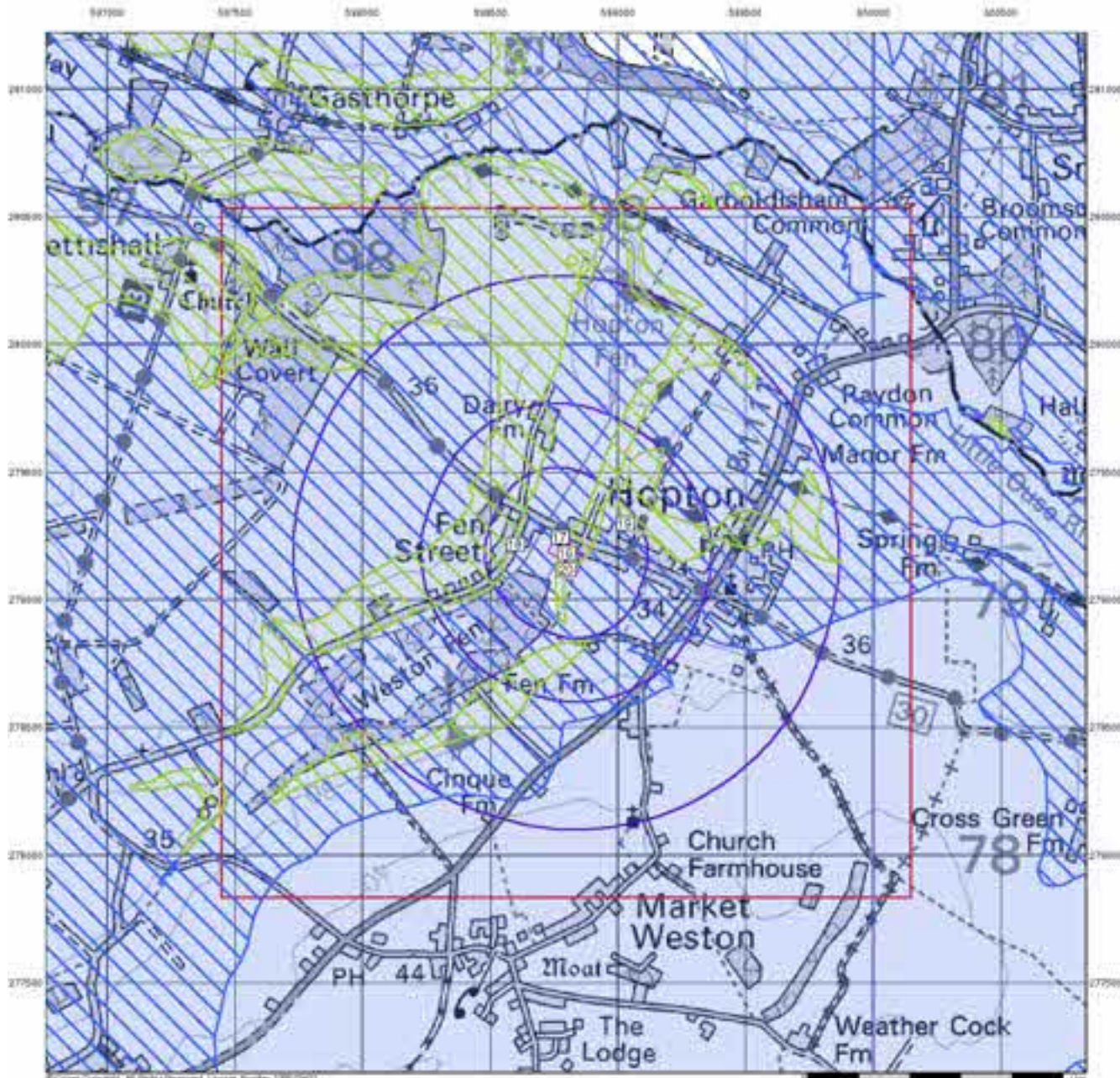
**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ





**Ground Stability Data (1:50,000)**

**General**

- Specified Site
- Specified Buffer
- Bearing Reference Point
- Slice
- Map ID

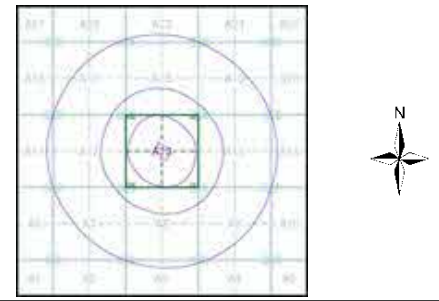
**Potential for Landslide Ground Stability Hazards**

- High
- Moderate
- Low
- Very Low

**Potential for Ground Dissolution Stability Hazards**

- High
- Moderate
- Low
- Very Low

**Mining and Ground Stability - Slice A**



**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ



**Ground Stability Data (1:50,000)**

**General**

- Specified Site
- Slice
- Specified Buffer
- Map ID
- Bearing Reference Point

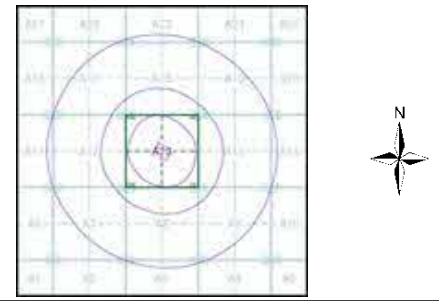
**Potential for Running Sand Ground Stability Hazards**

- High
- Moderate
- Low
- Very Low

**Potential for Shrinking or Swelling Clay Ground Stability Hazards**

- High
- Moderate
- Low
- Very Low

**Mining and Ground Stability - Slice A**



**Order Details**

Order Number: 280187841\_1\_1  
 Customer Ref: 15874DS  
 National Grid Reference: 598800, 279180  
 Slice: A  
 Site Area (Ha): 0.93  
 Search Buffer (m): 1000

**Site Details**

Orchid Meadows, Nethergate Street, Hopton, DISS, IP22 2QZ