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To The Chairman and Members of the Local Plan Working Group

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Date 23 October 2013

## AGENDA SUPPLEMENT (5) – APPENDIX D/PART 5

Dear Sir/Madam

### LOCAL PLAN WORKING GROUP - TUESDAY 29 OCTOBER 2013

I refer to the agenda for the above-mentioned meeting and enclose the following item:

Item No	Report Title	Page Nos
8.	Attleborough Link Road Study – Appendix D/Part 5  Report by Phil Mileham, Deputy Planning Manager.  Unfortunately, due to the size of Appendix D, I have had to split the document into 9 parts – that is part 5 of 9.  NB: There will be a limited number of hard copies available on the day.	357 - 473

Yours faithfully

*Julie Britton*

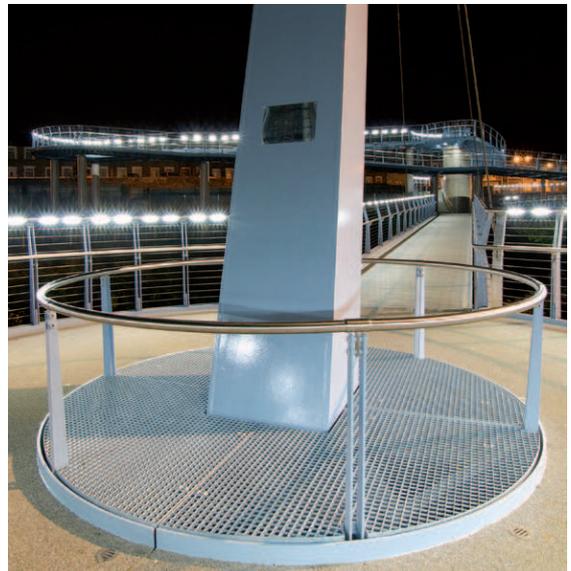
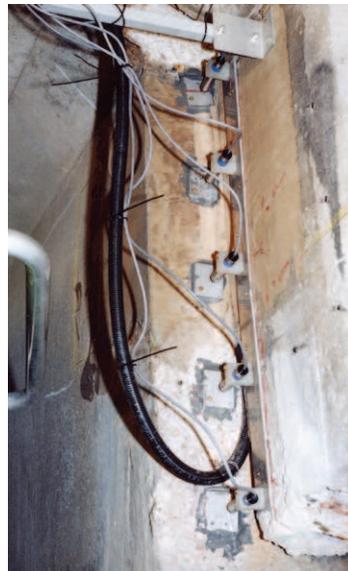
Senior Committee Officer



# Appendix C Geotechnical Assessment (Preliminary Sources Desk Study)

## Attleborough Link Road Preliminary Sources (Desk) Study

November 2012



Project No: CS/060268

Doc Ref: CS/060268/GT/01

Rev:

Client: Breckland Council  
Issue Date: November 2012

Attleborough Link Road  
Preliminary Sources (Desk) Study



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## Issue Record

Rev	Date	Description/Comments	Author/Prepared by:	Approved for Issue by:

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# Drawings

CS/060268/GT/01	Scheme Location Drawing and Route Corridor
CS/060268/GT/02	Locations of Historical Mapping Segments
CS/060268/GT/03	Geological Map

# Appendices

Appendix A	Envirocheck Report
Appendix A1	Envirocheck Report (Extended Area)
Appendix B	Historical Mapping
Appendix B1	Historical Mapping (Extended Area)
Appendix C	Statutory Undertakers Information
Appendix D	Geotechnical Risk Register
Appendix E	List of Arial Photographs

# 1. Introduction

## 1.1 SCHEME DETAILS

Breckland Council (BC) proposes to construct a new link road around Attleborough to accommodate proposed developments in the area. BC has commissioned Capita Symonds (CS) to undertake a Preliminary Sources (Desk) Study (PSS) of the south western end of the proposed route corridor.

The proposed scheme is known as the Attleborough Link Road and is located to the south of the existing population centre. The link road is to provide access for a proposed expansion of the town and reduce / improve traffic flows through the town centre. The scheme is to be built predominantly across previously undeveloped agricultural land. A number of possible routes for the link road are currently being considered. This desk study covers the general route corridor for approximately 3km of the south west section of the route. The Ordnance Survey National Grid reference at the approximate site centre is TM 03809 93539. The location of the route corridor is presented on Drg No. CS/060268/GT/01: Scheme Location Drawing and Route Corridor.

During the compilation of this report, the area for the potential route corridor changed which required additional information to be acquired. This has resulted in two sets of Envirocheck data for the site, these are included as Appendix's A, A1, B and B1.

## 1.2 PREVIOUS GEOTECHNICAL STUDIES

No previous ground investigations are known to have been undertaken for this section of the scheme. A number of boreholes are held on the British Geological Survey (BGS) borehole database, associated with the A11 highway. A Geoenvironmental study has previously been undertaken on the site (Ref 1).

## 2. Sources of Information and Desk Study

### 2.1 GENERAL INFORMATION

Details of the general route corridor for the Attleborough Link Road Scheme are presented on the scheme location drawing CS/060268/GT/01.

### 2.2 PREVIOUS GEOTECHNICAL INFORMATION

No previous geotechnical data for the site is available other than the information contained on the BGS borehole database.

### 2.3 HISTORICAL DATA

Copies of the historical maps examined during this desk study are included in Appendix B and B1 of this report.

### 2.4 AERIAL PHOTOGRAPHS

No aerial photographs were studied as part of this scheme. Aerial photographs are available within the English Heritage Archive. A list of the available photographs is included in Appendix E.

### 2.5 BRITISH GEOLOGICAL SURVEY

The British Geological Survey (BGS) information consulted for this report included:

- 1) The BGS Map Sheet 175 Diss (Solid & Drift). (Ref. 2)
- 2) BGS Sheet 175 Memoir, Geology of the county around Diss. (Ref. 3)

### 2.6 ENVIRONMENTAL DATA

Environmental data was obtained by obtaining an Envirocheck report for the scheme corridor.

### 2.7 STATUTORY UNDERTAKERS INFORMATION

As part of this Preliminary Sources Study for this scheme, Statutory Undertakers were consulted for details of plant and apparatus that may be affected by the proposed highway route. Statutory Undertakers returns can be found in Appendix C of this report.

### 2.8 UXO STUDIES

No site specific assessment of the unexploded ordinance risk has been undertaken on the site. This area of the country is known to have been regularly (particularly Norwich and Great Yarmouth) targeted during WWII and therefore it is recommended that a UXO risk assessment is undertaken on the preferred route.

## 3. Field Studies

### 3.1 SITE WALKOVER

A walkover survey was carried out in October 2012. The extent of the walkover was severely limited as no access was available onto the site other than views from the public highway and footpaths. Consequently large areas of the site were not visible for inspection. The walkover surveys examined features such as:

- Topography, land-use and vegetation;
- Geology and geomorphology;
- Hydrogeology and drainage;
- Access for any planned ground investigation works; and
- Areas of potential geotechnical difficulties.

The results of the walkover survey(s) are discussed in later sections of this report.

### 3.2 GEOMORPHOLOGY/GEOLOGICAL MAPPING

No site specific geological or geomorphological mapping has previously been undertaken along the route corridor.

### 3.3 DRILLING, PITTING AND TESTING WORK

No drilling, pitting and testing work was undertaken during the current study. Further site investigation will however be necessary for detailed design purposes. Until the preferred route is chosen no intrusive investigation can be designed. However, it is likely to comprise boreholes, trial pits and associated insitu and laboratory geotechnical and geoenvironmental testing. A series of water monitoring installations are likely to be required with a period of monitoring post site works to establish the groundwater conditions. Additionally, gas monitoring may be required to comply with planning conditions.

### 3.4 DRAINAGE/HYDROLOGICAL STUDIES

No assessment of the surface water drainage and hydrology along the scheme has been made available or undertaken as part of this report.

### 3.5 GEOPHYSICAL STUDIES

No geophysical studies were made available or undertaken as part of this report.

### 3.6 PHOTOGRAPHIC STUDIES

No photographic studies were undertaken as part of this study.

## 4. Site Description

### 4.1 TOPOGRAPHY

The route corridor comprises a generally flat area of land with gently undulating slopes and shallow wide “valley” features. No abrupt changes in topography are present along the route corridor. There is a level difference of approximately 10m between the western end (35 mOD) and the eastern end (45 mOD). The minimum elevation within the route corridor is approximately 28 mOD. The site has a “low” section trending approximately NNE – SSW, within which a watercourse is located.

### 4.2 WALKOVER SURVEY

A walkover survey was undertaken by a geotechnical engineer from Capita Symonds on 23rd to 24th October 2012. The weather conditions were poor with visibility reduced by persistent mist and low cloud. Access to the site was restricted to public highways and footpaths resulting in large areas of the site not being surveyed.

The site generally comprises arable land growing predominantly wheat and sugar beat in large fields surrounded by mature hedgerows. A number of roads cross the route corridor, these are generally bordered on both sides by high mature hedgerows. The landscape is generally flat with low ridges and shallow valley features in the order of a few metres.

The soils across the site reflect the underlying geology generally comprising either slightly sandy slightly gravelly clay (weathered Lowestoft Till) or a slightly clayey slightly gravelly sand (glacial sand and gravel).

No signs of slope instability were observed on the gentle slopes visible from the available vantage points. However, the restricted views and the ploughed nature of the ground may have masked any instability within the slopes.

No infilled ponds were available for inspection from the view points. The former landfill site at Leys Lane was visible from the road. This area comprised a recently planted hedge along the road boundary and a slightly elevated area of grassed pasture land being grazed by sheep. No surface evidence was visible relating to the use of the site and no monitoring instruments were noted.

Several farms were present within the route corridor and a number of industrial sites located on the outskirts of the route corridor, which have the potential for contamination.

One watercourse was observed between the houses at the junction of Attleborough Road and Fen Street (at the south eastern extent of the site) during the walkover this was in the order of 2m wide and approximately 300mm deep.

### 4.3 GEOLOGY

The relevant BGS geological plan, scale 1:50,000 (Ref. 2) and Memoir (Ref. 3) indicates the stratigraphic succession in the vicinity of the site to comprise:

#### ***SUPERFICIAL DEPOSITS***

*Made Ground*

*Alluvium*

*Glacial Sand and Gravel*

*Lowestoft Till*

#### ***SOLID GEOLOGY***

*Upper Chalk of Cretaceous age.*

#### 4.3.1 *SUPERFICIAL DEPOSITS*

##### **Made Ground**

One isolated area of Made Ground is indicated on the geological map at NGR 047937. No details of this material is contained in the memoir. It is likely that the Made Ground will be present in other areas associated with past and present uses of the site, particularly around roads, railways and infilled ponds / small sand quarries which may have been in-filled.

##### **Alluvium**

Alluvium is noted on the geological plan (Ref. 2) as being located in a narrow band running approximately northeast – southwest across the route corridor around the current alignment of the tributary of the River Thet.

The alluvium generally described across this area comprises grey mottled brown sandy silty clay and may contain some organic rich clay and peat.

##### **Glacial Sand and Gravel**

Glacial sand and gravel deposits are indicated to cover a large proportion of the site area and are described in the geological memoir as outwash deposits from the Lowestoft phase of glaciations. The deposits are described as ranging from flint and chalk rich gravel and cobbles to fine sand. There are variable quantities of clay in both sand and gravel deposits. A borehole located in Attleborough Station has proved a thickness of 21.9m. These deposits are believed to have in-filled pre-existing drainage channels.

##### **Lowestoft Till**

Lowestoft Till is generally present at both the western and eastern ends of the route corridor, although it is also indicated to be exposed locally near the centre of the site. The deposits are described as a matrix supported diamict, with a matrix of grey/ black silty clay. The clasts are described as reaching boulder size but are generally less than 40mm and composed of predominantly chalk and flint although clasts of various lithologies can be present. Thicknesses of this material are likely to be variable across the site.

#### 4.3.2 SOLID GEOLOGY

##### Upper Chalk

The Upper Chalk (Uck) underlies the superficial deposits across the site, the surface of which may contain buried valleys. The chalk contains varying quantities of flint. The shallow dip of the strata in this area means that the strata should be fairly consistent across the site.

#### 4.3.3 STRUCTURAL GEOLOGY

No dip information is present on the geological map. The Geological Memoir (Ref. 32) indicates that the chalk is effectively horizontal with a dip of approximately one third of a degree to the east.

#### 4.4 HYDROLOGY

The route corridor crosses a tributary of the River Thet, which is the main hydrological feature in this area. The Envirocheck Report (Appendix A & A1) indicates sections of the site which are liable to flooding. Further hydrological analysis is required to confirm the anticipated highest flood level in accordance with Environment Agency guidance.

Five water abstraction areas are indicated in the original Envirocheck Report located within 0.5km of the site, these relate to borehole / well / seepage pit water sources for household supplies, commercial processes and farming. Two of the abstraction locations are within the route corridor, at Leys Farm (current licence) and to the south of Alder Farm (both are located in the western side of the route corridor).

The Envirocheck Report records twelve discharge consents that have been granted within 0.5km of the site. Two of the consents are noted as operational, relating to the discharge of treated sewage effluent from water companies, one into a tributary of the River Thet and the second to land / soak-away.

One pollution incident to controlled waters is recorded into the River Thet; Swangey Tributary for the discharge of storm sewage on the 14<sup>th</sup> August 1998. This is recorded as a category 3 - minor incident.

One prosecution is noted in 1991 relating to the discharge of sewage effluent into the River Thet.

River water quality sampling has been undertaken on Buckenham stream at a location close to Leys Plantation, within the route corridor. Based on the results, the river has been graded for its quality. The ratings are presented in the Envirocheck Report and the stream has been assigned a GQA grade of "River Quality D".

#### 4.5 HYDROGEOLOGY

The EA groundwater vulnerability records classify the soils on the site as being a mixture of low and intermediate (I1) and (I2) leaching potential. The superficial Aquifer Designations for the site range from "unproductive strata" to "Secondary Aquifer - A" (permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers).

The bedrock aquifers are classified as “Principal Aquifers” (deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale).

A Zone II and Zone III Source Protection Zone (SPZ) is present within 200m of the site boundary. These are areas designated to protect water extraction points from contamination. SPZ require any construction to be undertaken in such a way that any works will not contaminate groundwater sources.

#### 4.6 GEOMORPHOLOGY

No geomorphological mapping has been previously undertaken on the site or is planned to be undertaken as part of this PSS.

#### 4.7 MAN-MADE FEATURES

The nature and location of the improvement scheme is that it is on the outskirts of an urban area but is predominantly within a rural, agricultural setting. There are several properties within and around the route and a number of roads and a railway line that cross the proposed route corridor.

#### 4.8 HISTORICAL DEVELOPMENT OF THE AREA

A review of the development of the site has been undertaken using selected historical Ordnance Survey maps at 1:1,250 and 1:10,560 / 1:10,000 scales, ranging from 1883 to 2012. The historical maps are presented in Appendix B & B1.

Due to the large area of the proposed route corridor, the site has been split into segments for the description of historical development. The locations of the segments are indicated on Drawing CS/060268/GT/02. Only maps with noteworthy changes are listed in the tables below.

Due to the change in the route corridor, the historical mapping is split into two sections contained in Appendix B & B1. Segments referenced CG/6312 are contained in Appendix B and the segments referenced CS/060268 are contained in Appendix B1.

CG/6312, Segment A6	
Map Date	
1883	The route corridor and surrounding area is predominantly rural with a few domestic dwellings and a public house “White Lodge”. All the properties shown have their own wells. An established field system is present across the area.
1905	A number of the field boundaries have changed, increasing the original field size. A public footpath is shown running along the boundary of the route corridor before turning into the area of interest.
1952	Other than the development of a property in the field below “Blacksmiths Plantation” there are no changes from the previous plan.
1972	The previously shown public footpath is no longer present and a few of field boundaries have been removed. A number of properties have been constructed, mainly close to the junction of Fen Street including a “Filling Station” as well as development at “White Lodge”. The previously shown wells indicated at every property are generally no longer shown.

1986 – 1995	A “surfaced” area is shown leading from London Road into the field above “White Lodge” public house. A cutting is also shown to exist along the current alignment of the A11 carriageway.
1991	The area to the north of “White House” is shown to be a Nursery. The field boundary that bordered the route corridor is no longer shown.
2006	The A11 junction to the south west of the site has been changed to a roundabout.
2012	improvements to the A11 junction / roundabout is shown with minor changes to the road alignment.

## CG/6312, Segment A7

Map Date	
1883	This zone is primarily rural with a mix of farm land and woodland (Leys Plantation). A number of residential properties most with an associated well are present within the route corridor. A twin track railway line cuts across this zone.
1883 - 2012	No major changes occur in this area other than the realignment of some hedgerows.

## CG/6312, Segment A8

Map Date	
1883	This area is dominated by Leys Farm and surrounding farmland.
1972	A number of the field boundaries are shown to have been removed and new buildings developed around Leys Farm.

## CG/6312, Segment A10

Map Date	
1883	Two dwellings are present, a small property (with a well) located to the west of Roe Road and to the east “The Roe” is the main residential property (consisting of two properties), surrounded by farmland. A single well is shown servicing this property.
1905	A second well is shown at “The Roe” and one of the two properties has been demolished. The remaining building has been renamed “Wroo Farm”.
1952	A new farm “Haverscroft” has been built on Hypocrite Lane. In addition a property has been constructed to the east of London Road.
1959	The two wells are still shown associated with Wroo Farm.
1972	The two wells at Wroo Farm are no longer shown and a number of the field boundaries have been changed with a number of “drains” illustrated across the fields.
1986	A cutting is shown to be present for the A11 passing between Wroo Farm and Haverscroft House Farm. The well at the property to the west of Roe Road is no longer shown.
1986 - 2012	The site remains largely unchanged.

CG/6312, Segment A11	
Map Date	
1883	The area is dominated by a twin track railway line and Hargham Road. A number residential properties are present in this area including a substantial series of buildings at "Haverscroft House" which falls outside the zone of the current route corridor. A series of field boundaries divide the surrounding agricultural land into relatively small fields. A number of wells are present across the area associated with residential properties.
1905	The property on Hargham Road has been demolished at grid reference 603490 293450 and a new property has been constructed to the west of the previously demolished property.
1952	A new property has been constructed in the former wood, which was immediately south of the previously demolished house.
1972	A number of residential properties have been constructed to the east of the railway line along Fowlers Lane. A few minor changes have been made to the field boundaries across the area.
1972 - 2012	No further significant changes are shown to have occurred in this area.

CG/6312, Segment A12	
Map Date	
1883	This area is mainly rural with one area of residential development along Poplar Road (which is outside the route corridor), comprising one dwelling on the west side of the road and two properties on the eastern side of the road including "Poplar Farm" with associated well. The railway line passes through the western corner of this zone.
1952	The map shows a sewage works has been established along the boundary of the current route corridor.
1972	Poplar Farm has expanded and the well shown is no longer present. A new pond has been established to the south east of the farm along with a new access road from Fowlers Lane. The sewage works are now indicated to be disused but the main infrastructure remains.
2006	The plan indicates the area to the south and east of Poplar Farm has been planted with non-deciduas woodland. The recently formed pond first shown on the 1972 plan has been enlarged and now forms a rectangular shape.
2012	The site area remains largely unaltered with the exception of the area immediately to the south of Poplar Farm which is shown to have been partly deforested.

CG/6312, Segment A13	
Map Date	
1883	Two main residential areas are present within this zone, Hillsend Farm and a small cottage on the bend of "Hillsend Lane". Both properties fall just outside the boundary of the current route corridor and comprises fields and a small triangular shaped pond.
1906	There is no change in or immediately surrounding the site area with the exception of a long narrow field to the north west of the site being used as allotments.
1972	The area of allotments is now indicated to be forested, Hillsend Farm has undergone development and expansion; the field boundaries around the farm buildings have been removed. The second property along Hillsend Lane is now named as "The Cottage" and also appears to have been developed. The area of the route corridor remains unchanged.
1986	The cutting for the A11 is shown along the boundary of the route corridor. The construction of this road has dissected and terminated Hillsend Lane close to "The Cottage". An alternative access to Hillsend Farm has been formed to the south east leading from Roe Road.
1988	"The Cottage" is indicated to be have been renamed "Meadow Cottage". From this point, the site and immediate surroundings appear to be generally unchanged.

CG/6312, Segment A15	
Map Date	
1883	A number of buildings are shown close to the boundary of the route corridor including "Grove Inn". Properties are located in long narrow plots and two wells are located in the most northerly of these properties. The route corridor in this area comprises fields bounded to the east by "London Road".
1906	A property is shown on the plot closest to the proposed route and a further two wells indicated in the two southerly plots. The Grove Inn is indicated to be a "brew house".
1952	Development has taken place to the north of Hillsend land.
1972	The "Grove Inn" is no longer shown, a filling station is indicated to be present to the north of Hillsend Lane at the junction with London Road. Only one well remains in the most northerly of the original residential plots.
1959 and 1976	The main development of Attleborough has taken place to the north of the route corridor.
1988	The map shows that the "Haverscroft Industrial Estate" has been constructed along with a reservoir to the east of the proposed route corridor. From this point, the area immediately surrounding the route corridor remains largely unchanged.
2012	An access has been formed into a field to the south of the industrial estate, presumably to enable future development.

CG/6312, Segment B5	
Map Date	
1883	The route corridor is shown to comprise fields with a number of small ponds across the area. A wooded area with a large concentration of ponds is present on the boundary. No residential properties are shown to be present at this time.
1972	The wooded area has been removed and the series of small ponds have been joined to form one larger pond. A number of field boundaries to the north of this pond have been removed to produce a large field. From this time the site is generally unchanged.

CG/6312, Segment B9	
Map Date	
1883	The route corridor is dominated by two large ponds. Three residential properties are located along a track leading off Leys Lane. The remaining area of the site is dominated by fields.
1905	A well is indicated to be present at the property at approximate grid reference 605060 293440.
1952	A sandpit has been established to the north of Leys Lane outside of the proposed route corridor.
1979	The sand pit is shown to be disused. Additionally, a number of field boundaries have been removed within the route corridor. A pond has also been in-filled at grid reference 605650 293660.
2006	Three ponds are no longer shown in the route corridor, these were previously indicated at grid reference 604850 293470, 605000 293600, 605150 293630.

CG/6312, Segment B10	
Map Date	
1883	This section of the route corridor is almost entirely agricultural land, with a small number of buildings, concentrated along Buckenham Road with associated wells. A small number of ponds are scattered through the area.
1952	The field bordering the northern side of Bunns Bank and Buckenham Road has been subdivided. A sewage works is also indicated on this plan located in the south east corner at grid reference 605430 293590. A pond close to the sewage works has been in-filled (grid reference 605550 293480).
1972	The field bordering the northern side of Bunns Bank and Buckenham Road has been developed into small holdings and the field boundaries within the route corridor have been adjusted to produce larger fields.
1976	A poultry packing station is located to the east of the small holdings.
2006	The small holdings are indicated to be a nursery and the sewage works are disused. An additional pond is no longer shown at grid reference 605420 293730.
2012	Further development has occurred in the industrial area to the east of the route corridor.

CG/6312, Segment B14	
Map Date	
1883	The main feature of the route corridor is "Hill Foundry" located on the western side of Buckenham Road. The remaining part of the route corridor and surrounding area is agricultural land with scattered ponds.
1906	A well is shown in the Hill Foundry development.
1952	The map shows a development on the east side of Buckenham Road adjacent to Hill Foundry. Residential development is shown to the north of Hill Foundry outside the route corridor on the western side of Buckenham Road.
1972	The building at Foundry Hill to be now named Blenheim house with a series of houses on the opposite side. "Oak Trees" has been constructed behind the northern housing development.
2006	Three ponds are no longer shown on the site at grid references 605390 29400, 605450 294090 and 605510 294020. There are some changes to the field boundaries within the site area.

**CS/060268 Historical Mapping Segments (Additional Area – Note segment references do not correspond with previous segments)**

CS/060268, Segment A7	
Map Date	
1883	This zone is primarily rural farm land. Poplar Farm is located in this area and consists of a small number of buildings, a well and a small wooded area (possible orchard) A number of residential properties, most with an associated well are present within the route corridor along Poplar Road. A stream / drainage ditch is located to the east of Polpar Farm running in a generally south westerly direction. A twin track railway line cuts across this zone.
1905	A number of drainage ditches are now indicated across and around the route corridor.
1952	A sewage works has been constructed to the south of the route corridor.
1972	A significant redevelopment of Poplar Farm has occurred with the construction of several new buildings and removal of the well and former wood. A new access to the farm has been created from Fowlers Lane, the route of which has changed to terminate at the farm (and no longer joins Poplar road. Several field boundaries and drainage ditches have been removed. Two ponds have been formed to the east of the realigned route of Fowlers Lane. The Sewage works are now indicated to be disused. The well is no longer shown at Levi Cottage.
2006	The area directly to the south of Poplar Farm is now shown to be wooded with coniferous trees. The pond closest to the farm is now shown to be square in shape. The pond at the corner of Fowlers Lane is no longer shown to be present.
2012	The area of trees between poplar road and the main drain is no longer shown.

CS/060268, Segment A8	
Map Date	
1883	The extension to the route corridor is through a rural area containing fields, a small area of deciduas woods and is cut by Leys Lane. The area to the south is included in the original area description (segment B9).
1952	A sandpit is indicated to be present in this area between Leys Lane and the wooded area.
1972	The sand pit is indicated to be disused. The deciduas woodland is no longer shown. (Information in the Envirocheck report indicates this site to have been used as a landfill between 1971 and 1979).
2006	The disused pit is no longer shown.

CS/060268, Segment A13	
Map Date	
1883	This segment is largely rural, the route corridor contains one dwelling with a well at the end of a dead end road leading from Leys Lane. A small area of deciduas wood is located directly to the north of this dwelling. Two areas of mixed wood are within the route corridor, one at the junction of Leys Lane and the access to the dwelling and the second to the west of Leys Lane.
1952	The woods to the north of the dwelling are no longer shown.
1972	The original dwelling is no longer indicated on the plan, however the well is still shown to be present. A saw mill is now shown on the former location of the woods at the junction of Leys Lane. The fields to the north of the saw mill have been planted with trees. A dwelling "The Hideaway" has been constructed on Leys Lane.
2006	A large amount of development has taken place in the area of the saw mill.

CS/060268, Segment A14	
Map Date	
1883	The site is largely rural containing two buildings "Docking" and "Hill Foundry". Five ponds are shown on the site area.
1906	A well is shown on the site of "Hill Foundry".
1952	An access has been made in to the field opposite Hill Foundry. A new access track is present leading to Docking from Slough Lane
1972	Three of the ponds have been in-filled at NGR: 605510 294030, 605460 294090, 605250 29280. Hill Foundry is now named Blenheim House and the well is no longer shown. A number of houses have been built on the land opposite.
2006	A large pond at NGR 605380 29400 is no longer shown.

#### 4.9 GROUND HAZARDS

The data contained in the Envirocheck Report indicates that the radon potential on the site is low being in either the "no measures necessary" or in "lower probability zone where less than 1% of homes are above the action level".

The risk of running sand or shrinking and swelling clay is low, the potential for ground dissolution is very low and the landslide hazard potential is very low. However, the hazard potential for compressible ground is moderate.

A number of in-filled ponds have been noted during the analysis of the historical maps. The nature of the material used to infill the ponds may produce a hazard to the scheme as well as any layers of soft sediment that may have accumulated at the base of the former ponds.

A landfill site is also noted in the area of Leys Lane, the nature of the contained material is likely to be highly variable and potentially compressible and a source of ground, groundwater and ground-gas contamination.

#### 4.10 NITRATE VULNERABLE ZONES

The site falls within a Nitrate Vulnerable Zone delegation (NVZ); this is to control the amount of nitrate entering the watercourses from agriculture. This designation should have minimal effect on the scheme but needs to be considered during the drainage and landscaping design aspects associated with the scheme.

#### 4.11 POSSIBLE CONTAMINATION ISSUES

One landfill site is present within the site boundary, recorded in segment A8 at Ley's Lane. However, three sites are recorded. These are likely to be one site which has been recorded differently by different data suppliers. The names and locations of these are given in Table 4.1 below.

Name	Data Source	Grid Reference
Lens Lane	British Geological Survey	604700 293600
Attleborough	Environment Agency	604781 293710
Leys Lane	Local Authority	604779 293704

**Table 4.1 Envirocheck Recorded Landfill Sites.**

Two disused sewage treatment works and the site of a former petrol filling station are located close to the route corridor these may constitute a possible contamination source.

An area known as Hill Foundry is also located at the north eastern extent of the route corridor which was a possible former foundry / metal work with associated contamination.

Several potentially contaminative industries are included in the contemporary trade directory within 220m of the route corridor including, upholstery manufactures, garage services, coach builders, furniture manufactures, printers, precision engineers, boiler manufactures and cleaning services.

The agricultural nature of the site means there may have been agricultural chemicals used on the land across the route corridor.

Once the preferred route has been approved, any proposed ground investigation undertaken will need to include both visual inspections and relevant contamination testing. Following analysis of these results, contamination or potential contamination issues will need to be re-assessed if necessary.

A number of ponds have been in-filled; the nature of the fill material deposited in these ponds is unknown and has the potential to be contaminated.

A Phase 1 geoenvironmental assessment of the route corridor has been previously undertaken Bidwells in November 2009 (Ref. 1) a copy of this report has been provided to CS.

## 5. Ground Conditions

### 5.1 GENERAL

Information available from the published geological maps, available boreholes from the BGS database and observations during site reconnaissance indicate that the soils along the route principally comprise:

- *Made Ground*
- *Alluvium*
- *Glacial Sand and Gravel*
- *Lowestoft Till*

These are discussed in more detail below.

#### 5.1.1 *MADE GROUND*

The nature and extent of the made ground is unknown. It is likely to be highly variable where enounced. A suitable ground investigation is needed to establish the presence and nature of this material. However, it is expected to be present around man made features such as roads, railways and buildings as well as in-filled ponds and quarry pits. The nature of the encountered material will vary dependent on its source and usage.

#### 5.1.2 *ALLUVIUM*

Alluvial deposits have a restricted occurrence on this site and form a narrow corridor generally trending NE-SW and follow the alignment of a tributary of the River Thet. Alluvium is recorded in two of the BGS boreholes (TM09SW84 & TM09SW82) to comprise very sandy gravel or gravelly sand. No laboratory test results are available for this material.

#### 5.1.3 *GLACIAL SAND AND GRAVEL*

This material is indicated on the geological map to cover the majority of the site area. Glacial sand and gravel is noted in the available boreholes occurring below the glacial till. The recovered materials are described as medium dense to dense very silty sand or very sandy silt with rounded gravel. (BGS BH TM09SW8) has a recorded thickness of 60m of superficial deposits, predominantly sand.

#### 5.1.4 *LOWESTOFT TILL*

This material is restricted to a number of small areas across western and central areas of the route corridor but it dominates the eastern third of the site. The available boreholes close to the site indicate this material is likely comprises firm to stiff slightly sandy slightly gravelly CLAY. Gravel is of flint and chalk.

### 5.2 BEDROCK

A general description of the bedrock likely to be encountered along the route is contained in the British Geological Survey memoir for the site where it is described as a very pure micritic limestone containing flint nodules which are commonly distributed in layers.

The available borehole data contained on the BGS borehole database, mainly located along the route of the A11, indicates the recovered bedrock to be generally described as white structureless chalk with gravel sized intact fragments. The rock becomes less weathered with depth. The least weathered material recovered is described as white blocky bedded chalk (Grade III).

More detailed assessment of the bedrock will need to be made following the completion of a ground investigation along the preferred route.

### 5.3 SIGNIFICANCE OF GEOLOGICAL FORMATIONS

The available structural geological and rock core data indicates that:

- The bedding dip is gentle (less than 1 degree) and generally aligned in an easterly direction.
- The Upper Chalk is generally more weathered close to the surface with weathering decreasing with depth.
- Rock head depth is likely to be variable.

In view of the generally horizontal structural geology described above, major planar or wedge type failure within the rock mass is unlikely. However, it is anticipated that slumping and surface failures may occur in areas of cutting within the highly weathered chalk and an appropriate slope angle will be required should excavation into this material be required.

It is not envisaged that blasting would be required to loosen and fracture the rock prior to excavation, although removal by hydraulic breakage may be locally required. Ripping should be feasible within the chalk.

Should cutting slopes be required in rock or superficial deposits a suitable naturally stable slope angle should be chosen following a suitable ground investigation but at this stage a 1 in 2.5 cutting in rock should be adopted for preliminary design until proven by a suitable ground investigation.

### 5.4 GROUNDWATER CONDITIONS

Limited information on groundwater is available for the route corridor based on BGS boreholes located along the A11. These show groundwater to be at shallow depths below ground level. One well located at Poplar Farm (BGS BH TM09SW8) has been recorded as being artesian with a note on the log suggesting the water is contained in a glacial channel with a clay confining layer.

## 6. Preliminary Engineering Assessment

### 6.1 ALLUVIUM

#### 6.1.1 LOCATION

Alluvial deposits have a restricted occurrence on this site and form a narrow corridor generally trending NE-SW and follow the alignment of a tributary of the River Thet.

#### 6.1.2 CLASSIFICATION

Alluvium is recorded in two of the BGS boreholes (TM09SW84 & TM09SW82) located at the western extremity of the site to consist of very sandy gravel or gravelly sand. No laboratory test results are available for this material.

#### 6.1.3 EARTHWORKS ACCEPTABILITY CRITERIA

In order to determine the acceptability of the in-situ alluvium materials for reuse as fill it will be necessary to evaluate the materials recovered during a site specific ground investigation and associated laboratory testing data. However, at this stage it is assumed that these materials could be utilised for landscaping purposes.

#### 6.1.4 GROUNDWATER

The potentially granular nature of the alluvial soils and proximity to watercourses, it is likely to lead to ground water flows / seepages within the coarser elements and emergence of groundwater in cuttings and excavations. As a result, the groundwater regime will need to be kept under constant review during construction and provision for additional drainage made available.

### 6.2 GLACIAL SAND AND GRAVEL

#### 6.2.1 LOCATION

This material is indicated on the geological map to cover the majority of the site area.

#### 6.2.2 CLASSIFICATION

Glacial sand and gravel is noted in the available BGS boreholes, the recovered materials are described as very silty sand or very sandy silt with rounded gravel.

In order to determine the acceptability of the in-situ glacial sand and gravel materials for reuse as fill it will be necessary to evaluate the materials recovered during a site specific ground investigation and associated laboratory testing data. However, it is anticipated that this material should be reusable as general fill, probably in excess of 70%.

6.2.3 *GROUNDWATER*

The water table within the granular sand and gravel deposits is potentially high as this material is likely to have a high permeability / porosity and therefore will allow the relatively free passage of water. Where this material becomes confined by a less permeable material then artesian conditions may develop.

6.3 *LOWESTOFT TILL*

6.3.1 *LOCATION*

This material is restricted to a number of small areas across western and central areas of the route corridor but it dominates the eastern third of the site.

6.3.2 *CLASSIFICATION*

The available boreholes close to the site indicate this material is likely to comprise firm to stiff slightly sandy slightly gravelly CLAY. Gravel is of flint and chalk.

In order to determine the acceptability of the in-situ Lowestoft Till for reuse as fill it will be necessary to evaluate the materials recovered during a site specific ground investigation and associated laboratory testing data.

It is likely that 50 to 70% of this material will be reusable as fill. This will need to be confirmed following the ground investigation.

6.3.3 *GROUNDWATER*

The fine grained nature of this material indicates a generally low permeability. However, should granular layers occur interbedded within the clay, a preferential pathway for water flow may occur and high water pressures may be encountered. These granular pockets may generate rapid inflows into excavations. Ground investigation will be required to establish the presence of these features although local pockets are unlikely to be located during the investigation works.

6.4 *MADE GROUND*

6.4.1 *LOCATION*

Made Ground is likely to occur in localised areas and will be highly variable across the site area reflecting its source and use. No further assessment of the properties of Made Ground is possible without detailed ground investigation along the proposed route.

## 6.5 AREAS/FEATURES TO AVOID

## 6.5.1 ECOLOGICALLY SENSITIVE HABITATS

No SSSI's or other registered sites have been identified in the area of the route corridor. No detailed site specific ecological information is available at the time of compiling this report. One SSSI is however shown to the south of the route corridor in the area of Old Buckenham Fenn.

It is recommended that an ecological assessment is undertaken for the site.

## 6.5.2 FLOOD MAP

A tributary of the River Thet flows across the route, the information given by the Environment Agency for the scheme indicates one area of concern relevant to the proposed route corridor around Alder Farm, where the proposed route crosses the 1 in 100 and 1 in 1000 year flooding event area.

## 6.6 POTENTIAL CONSTRUCTION DIFFICULTIES

Construction difficulties likely to be encountered during the works include:

- *Shortfall of materials available from cutting operations.*
- *Irregular rock head level.*
- *Water strikes and washing out of fines in glacial (particularly sands and gravels) soils during excavation.*
- *Variability in quality of glacial deposits.*
- *Presence of soft soils in alluvial flood plain area.*
- *Encountering disused unfilled wells.*
- *Soft areas associated with in-filled ponds.*
- *Contaminated ground from landfill sites and in-filled ponds.*

## 6.7 BUILDABILITY DIFFICULTIES

No specific buildability issues are currently envisaged however this will need to be reassessed during the design stage once a preferred route option has been established and available ground investigation information is available.

## 6.8 CUTTINGS

No details of proposed cuttings are known, as a preferred route has yet to be established. As a guide line cutting slopes of 1v to 2.5h are likely to be stable in both superficial and weathered rock strata fresh rock slopes should be stable at 1v to 2.5h. However, this will need to be confirmed following appropriate ground investigation and laboratory testing. The ground investigation data may allow slopes to be designed at steeper angles or other stabilisation techniques such as soil nailing could be used to increase the slope angle and achieve overall stability where land take or other issues require steeper slopes.

#### 6.8.1 *POTENTIAL ACCEPTABILITY OF MATERIAL*

No details of any cuttings required are available at the time of compiling this report. However, much of the materials likely to arise from any potential cuttings will mainly be glacial till and glacial sand and gravel deposits, which based on the limited ground investigation data at the western extremity of the site is likely to comprise sand and gravel or a fine grained till generally described as a clay. Once a ground investigation and laboratory testing has been undertaken an assessment of the recovered materials suitability for reuse can be undertaken.

Some of the material arising from excavation may be chalk rock, in various states of weathering. This will also need assessment following suitable ground investigation and laboratory testing.

For preliminary design purposes until a suitable ground investigation is undertaken it is considered that a 70% acceptability for reuse should be achievable following suitable treatment and processing.

#### 6.8.2 *MERITS OF SPECIAL DRAINAGE OR GROUND TREATMENT*

Where necessary lateral toe and batter drains in cutting areas should be installed, to avoid any potential instability which may be caused by high groundwater levels. During the proposed ground investigation, the extent and persistence of groundwater in cutting areas will be further examined. In particular within glacial sand and gravel bands.

Persistent seepages at formation level may require construction of granular drainage layers/trenches. The form of any drainage will depend on the nature of the superficial soils and rock head morphology.

#### 6.8.3 *SWELLING PROBLEMS*

It is not envisaged that swelling will be a problem in cuttings formed in the superficial soils found along the route, this will need to be confirmed following a suitable ground investigation.

#### 6.8.4 *EXCAVABILITY*

The majority of the excavation works is within superficial deposits consisting of glacial till, sands and gravels with minimal rock excavation anticipated. The drift deposits should be easily excavated using conventional earthmoving equipment. However, hydraulic breaking and ripping may be required if competent rock is encountered. This will need to be assessed following the results of a suitable ground investigation.

#### 6.8.5 *GROUND TREATMENT*

It is not envisaged that any special ground treatment will be required in cuttings at this stage.

## 6.9 EMBANKMENTS

No details of embankments over the proposed route are known at this time. It is anticipated that the embankments will be constructed with a slope of 1v to 2.5h using site won materials wherever feasible. Further assessment of the stability of the side slopes at varying angles will be required following a suitable ground investigation once the preferred route and alignment has been established.

There may be a need to steepen the embankment to 1v to 1.5h or steeper in some areas where landtake or buildability issues dominate. Under these circumstances embankments may need to be constructed with reinforcing elements and/or with Class 6 granular material, or structures utilised at the toe of slopes.

### 6.9.1 CHARACTERISTICS AND RESTRICTIONS ON USE OF PARTICULAR SOILS

Most of the materials available from site will be of glacial origin or head deposits, these essentially granular materials will generally be suitable for use as fill. Further assessment of the finer grained glacial till materials will be required to establish their suitability for reuse following any necessary processing.

The chalk rock obtained from cuttings may also provide embankment fill dependant on its characteristics such as the saturation moisture content and intact dry density.

Further assessment of the suitability will need to be undertaken following a suitable ground investigation and laboratory testing.

### 6.9.2 PLANT USE OPTIONS

No particular problems are envisaged with the construction of embankments, provided the method of construction for the embankments and plant used on the scheme are in accordance with guidance given in the 'Specification for Highway Works (November 2008)'.

### 6.9.3 DRAINAGE REQUIREMENTS

The nature and manner of highway, embankment and cutting drainage discharge will need to be agreed with the Environment Agency and other concerned parties once the preferred route and highway drainage requirements are established.

### 6.9.4 FOUNDATION TREATMENT

It is not envisaged that any specialised ground treatment will be required. However, it may be necessary to provide a basal reinforcement layer, to strengthen the foundation soils, where the route crosses the alluvial flood plain.

## 6.10 SUB GRADE

The sub grade condition will be dependent on the quality of the fill materials used in embankments and the formation materials in existing and newly cut areas. Consideration must also be given to moisture content conditions of the soils, the weather conditions during the construction period and the traffic loading anticipated throughout the life of the highway.

### 6.10.1 *LIKELY CBR VALUES FOR CUTTING AREAS AND FOR POTENTIAL FILL MATERIALS IN EMBANKMENTS*

From the limited available data it is anticipated that most of the materials present in any potential cuttings will be soils of glacial origin and that CBR values will be in the range of 5%. Similar CBR results may be expected when the materials are used for embankment fill. Lower CBR values may need to be adopted in areas of alluvium.

Where the sub grade in cutting is in rock, higher CBR values should be feasible dependant on the weathering grade of the material.

### 6.10.2 *CAPPING LAYERS AND AVAILABILITY OF MATERIALS REQUIREMENTS*

It is envisaged that a capping layer will be required over the majority of the area in cutting where superficial soils form the sub grade. The extent of capping required in embankment areas, where imported materials or processed rock is used, will depend on the quality of these materials. Further assessment will be required following a suitable targeted ground investigation.

### 6.10.3 *DRAINAGE REQUIREMENTS*

Sub grade drainage may be required, particularly where groundwater seepages are found in cuttings. Surface water runoff will be required to be adequately accommodated within the highway scheme design.

Drainage discharge will need to consider the proximity, the control limits and criteria for any Water Protection Zone.

## 6.11 STRUCTURE FOUNDATIONS

No preferred route or preliminary design has been undertaken to identify the type or locations of structures for this scheme.

Foundations for retaining wall structures are likely to comprise shallow spread footings, founded within drift deposits, at or near rock head. Larger more complex structures such as bridges may require more complex foundation types, it is possible that piled foundations may be needed in some areas. A ground investigation will be needed before any structural foundations can be properly assessed and designed.

### 6.11.1 *ESTIMATES OF BEARING PRESSURES AND SETTLEMENTS*

At this stage there is insufficient information on the materials on site to provide an estimate of the available bearing pressures and anticipated settlements.

### 6.11.2 *GROUNDWATER*

Careful groundwater control will be required where foundations are formed within superficial deposits, particularly where groundwater may flow through preferential paths within the granular zones of glacial materials. Each site will need to be reassessed in terms of drainage during construction by a competent geotechnical engineer or geologist following the completion of an appropriate ground investigation.

### 6.11.3 PROBLEM AREAS/STRATA

An area of alluvium has been identified on the geological maps which may need some additional engineering. These materials will be dependent on the nature of the strata which will only be known following a ground investigations.

In addition to this, a number of ponds have been in-filled and no records of the materials used are likely to have been kept. These fill materials may require treatment should the proposed route cross them.

One landfill site (Leys Lane) has been identified within the route corridor. Should the route be located on or close to this feature then additional engineering solutions will be required to address the potentially contaminated (ground, groundwater and gas), compressible and variable nature of the fill materials expected in landfill sites.

A number of wells are noted within the route corridor and any works in these areas need to anticipate the presence of "old" wells. The historical mapping will need to be consulted once the route has been established to assess the risk.

High groundwater may be encountered in granular glacial units. Local artesian or sub-artesian pressures may exist where the granular units form confined aquifers.

### 6.11.4 POTENTIAL CONSTRUCTION DIFFICULTIES

No information on site specific ecologically sensitive sites is currently available and once this information has been established, the preliminary design of the highway will need to take these into account.

Likely construction difficulties for spread or piled foundations include:

- *Irregular rock head level;*
- *Difficulties in excavation in loose / soft superficial deposits and weathered rock;*
- *The possibility of water strikes, washing out fines and slope instability in glacial soils during excavation.*

### 6.12 CONTAMINATED LAND/SOIL CHEMISTRY

#### 6.12.1 POSSIBILITY OF HARMFUL ELEMENTS PRESENT IN SOIL OR GROUNDWATER AND IMPLICATIONS OF THESE ON HEALTH & SAFETY

A phase 1 Geoenvironmental assessment (Ref. 1) has previously been undertaken for the proposed route corridor and covers a larger area.

The land over the whole length of the scheme can be termed as agricultural grazing land or woodland, as such in the vicinity of farm buildings, there does exist the possibility of localised zones of contamination from husbandry techniques.

A former landfill site (Leys Lane) is located in the route corridor, the nature of the materials deposited at this site are not accurately known, it is noted as containing commercial and household waste. In addition to the contaminated fill, this site has the potential to be a source of contamination of the groundwater and ground gasses.

Contamination may also be present around the disused sewage works and former petrol filling station as well as associated with the road and rail network. A number of industrial estates are located outside of the site area that may have potential for contamination.

6.13 EXISTING GEOTECHNICAL PROBLEMS

6.13.1 *SLOPE FAILURES/LANDSLIPS*

The BGS have not identified any landslips over the route corridor. The site walkover did not identify any features that indicate instability in the existing onsite slopes. However, as access to the site was restricted and not all slopes were visible some instability may exist on site that was not observed during the site observations.

6.13.2 *SOLUTION FEATURES*

Bearing in mind the nature of the underlying rocks, it is not envisaged that solution features will be present.

6.13.3 *MINE WORKINGS*

The site is not underlain by coal or metalliferous bearing strata and no current mining is indicated within The Envirocheck Report. However, historical maps indicate limited quarrying in the past for sand / gravel within the route corridor. There may also be small localised historical workings scattered across the site and some of the ponds may be flooded workings.

Mining of minerals has not been assessed and this should be checked by obtaining a Mineral Valuers Report.

6.13.4 *VERY SOFT/HIGHLY COMPRESSIBLE SOILS*

It is possible that the proposed highway alignment will be constructed in areas underlain by soils with very soft or highly compressible characteristics. A site investigation will be required to establish the ground conditions along the preferred route option. The restricted walkover did not allow access to areas of potential alluvium.

# 7. Comparison of Project Options and Risks

## 7.1 COMPARISON OF IMPROVEMENT OPTIONS

A number of routes have been proposed through the route corridor. Two of the routes are indicated to pass over or very close to the location of the Leys Lane landfill site. If possible the former landfill site should be avoided to reduce the cost associated with remediation of the site (or contaminated ground surrounding the site) and to avoid the need for additional engineering required to reduce settlement across this feature. There is no significant geotechnical advantage or disadvantage to any of the other routes. However, the most northerly of the routes (at the western end) will cross the narrowest area of potential flood risk.

## 7.2 GEOTECHNICAL RISK REGISTER

The geotechnical risk register has been compiled and is presented in Appendix D of this report and is a general assessment of the conditions as revealed across the site area by the information obtained for this PSS. It is considered that until the results of a ground investigation are known, and preferred route option has been finalised, there is insufficient evidence available to make a definite comprehensive geotechnical risk register and this version will need to be updated as more information becomes available.

It is recommended that an unexploded ordinance risk assessment is undertaken on the preferred route corridor.

## 8. References

1. *Attleborough South, Attleborough Land Ltd, Phase 1 Geo-Environmental Assessment, November 2009. Bidwells.*
2. *British Geological Survey. England and Wales Sheet 175 Diss. 1:50,000 Scale. Solid and Drift Geology Series. 1989.*
3. *Mathers, S J, Horton, A, and Bristow C R. 1993. Geology of the county around Diss Memoir of the British Geological Survey Sheet 175 (England and Wales).*

## Drawings

DRG. No. CS/060268/GT/01

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PROJECT ATTLEBOROUGH LINK ROAD

TITLE SCHEME LOCATION PLAN AND ROUTE CORRIDOR

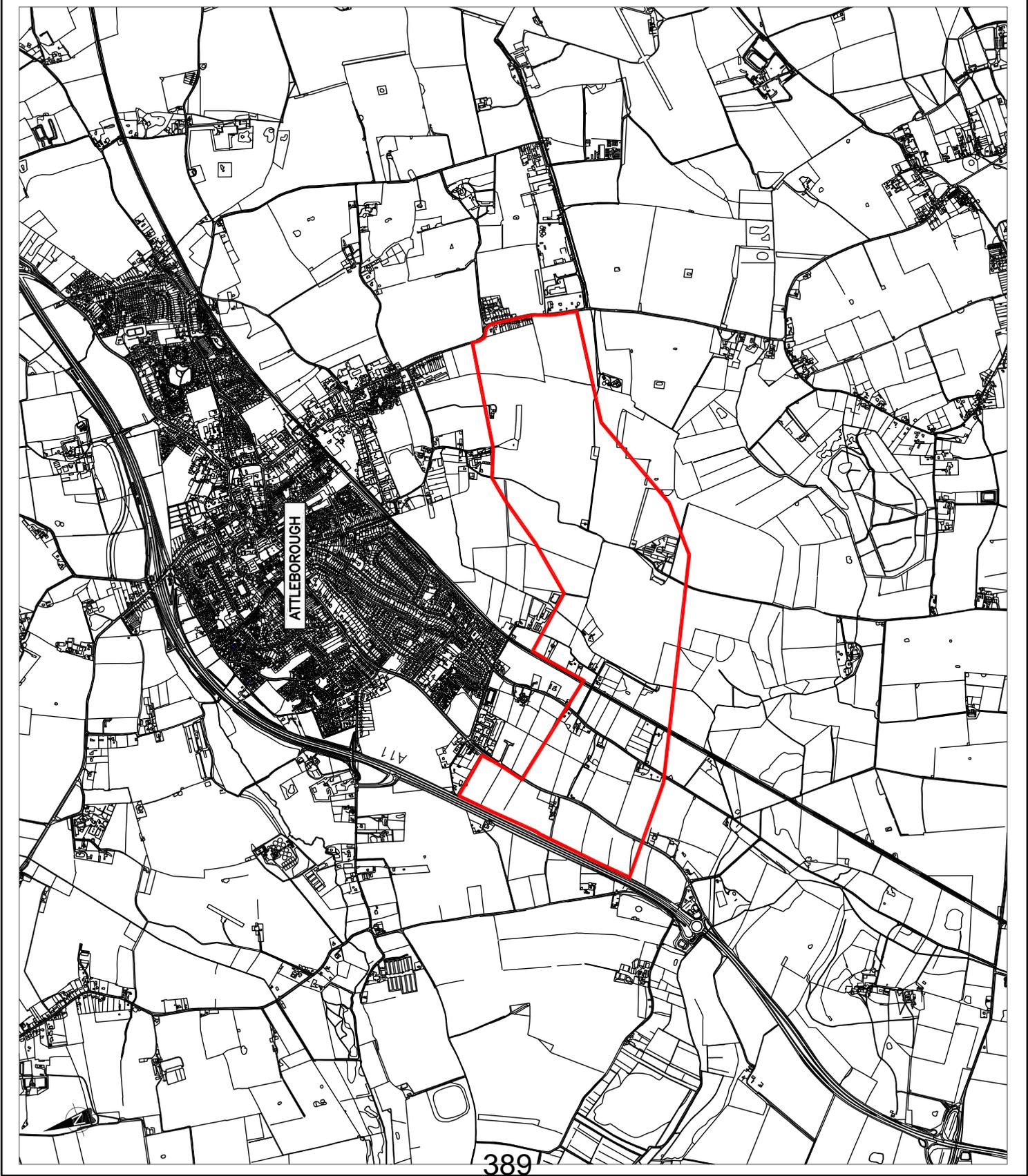
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PURPOSE PRELIMINARY SOURCES (DESK) STUDY

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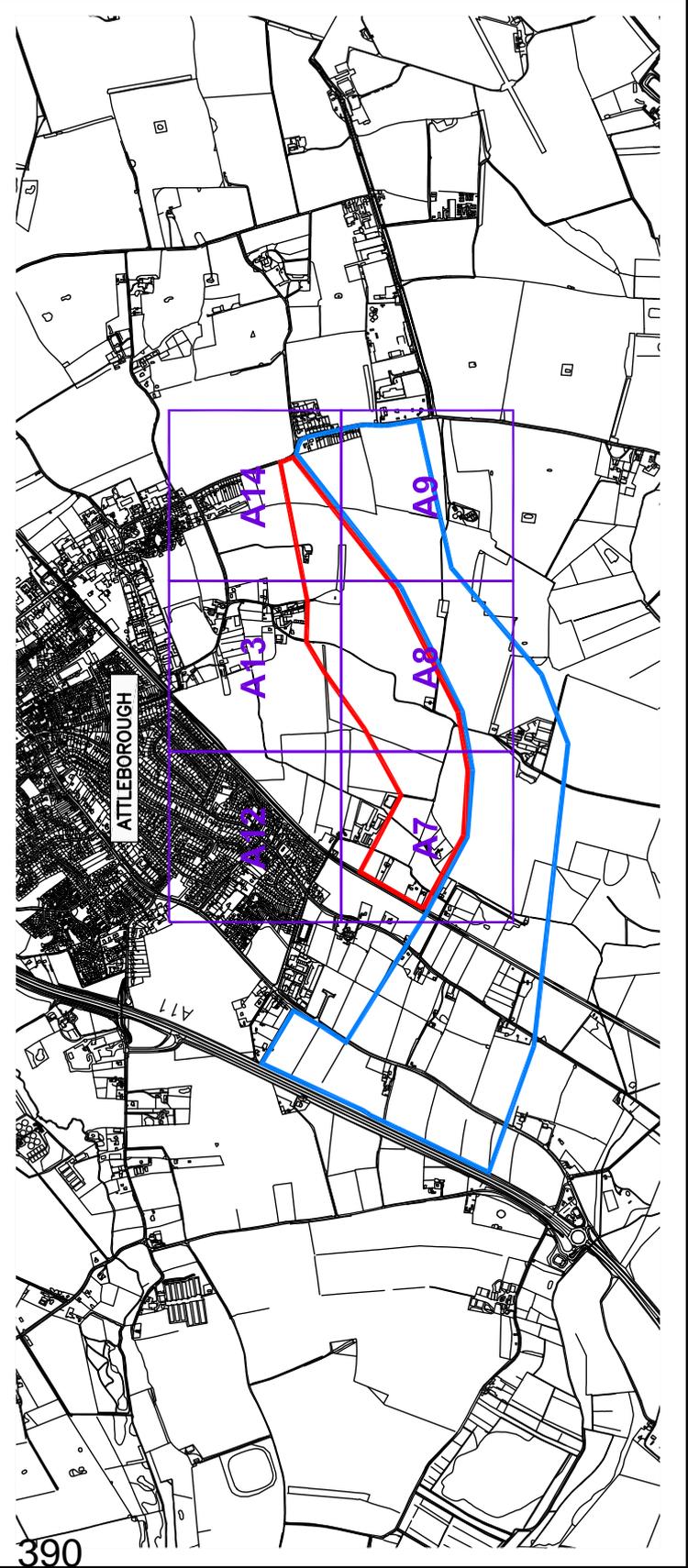
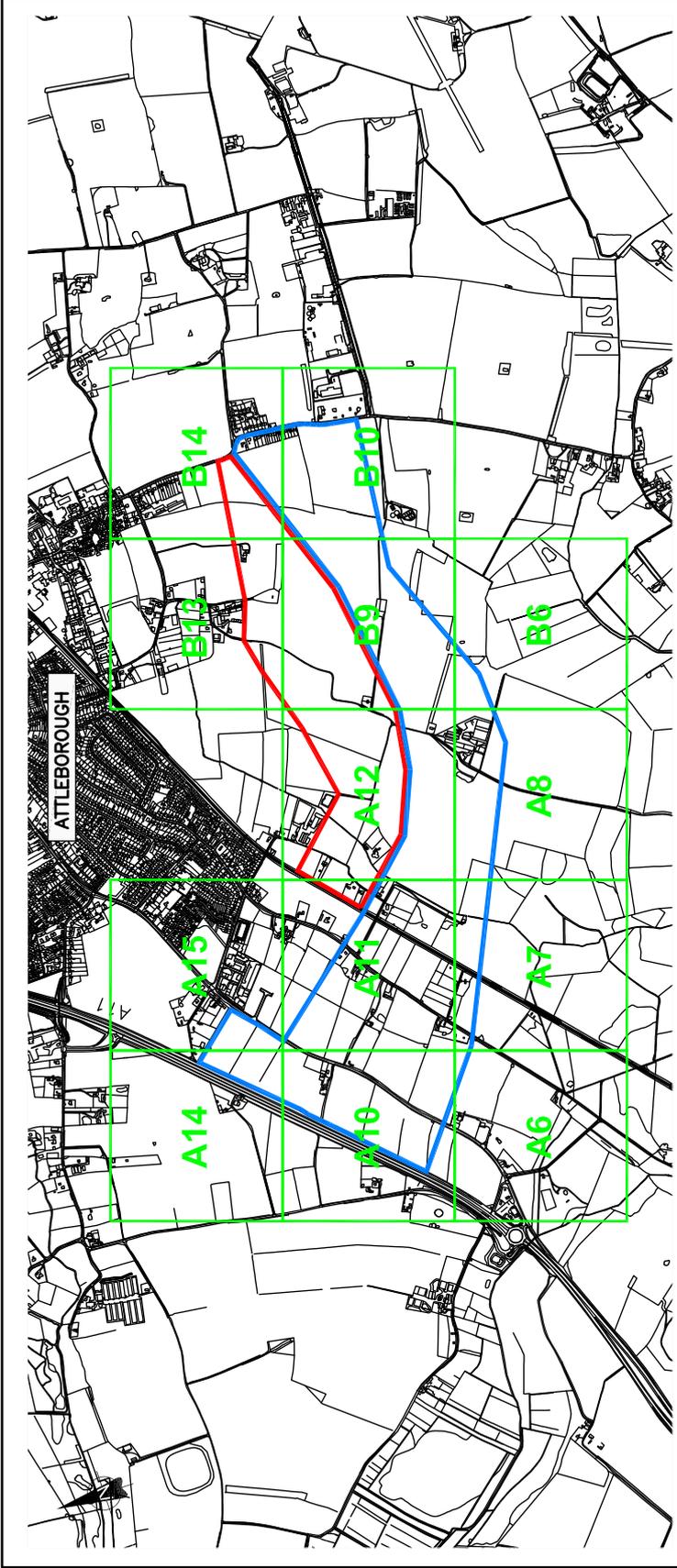
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TITLE  
 LOCATIONS OF HISTORICAL MAPPING SEGMENTS

PURPOSE  
 PRELIMINARY SOURCES (DESK) STUDY

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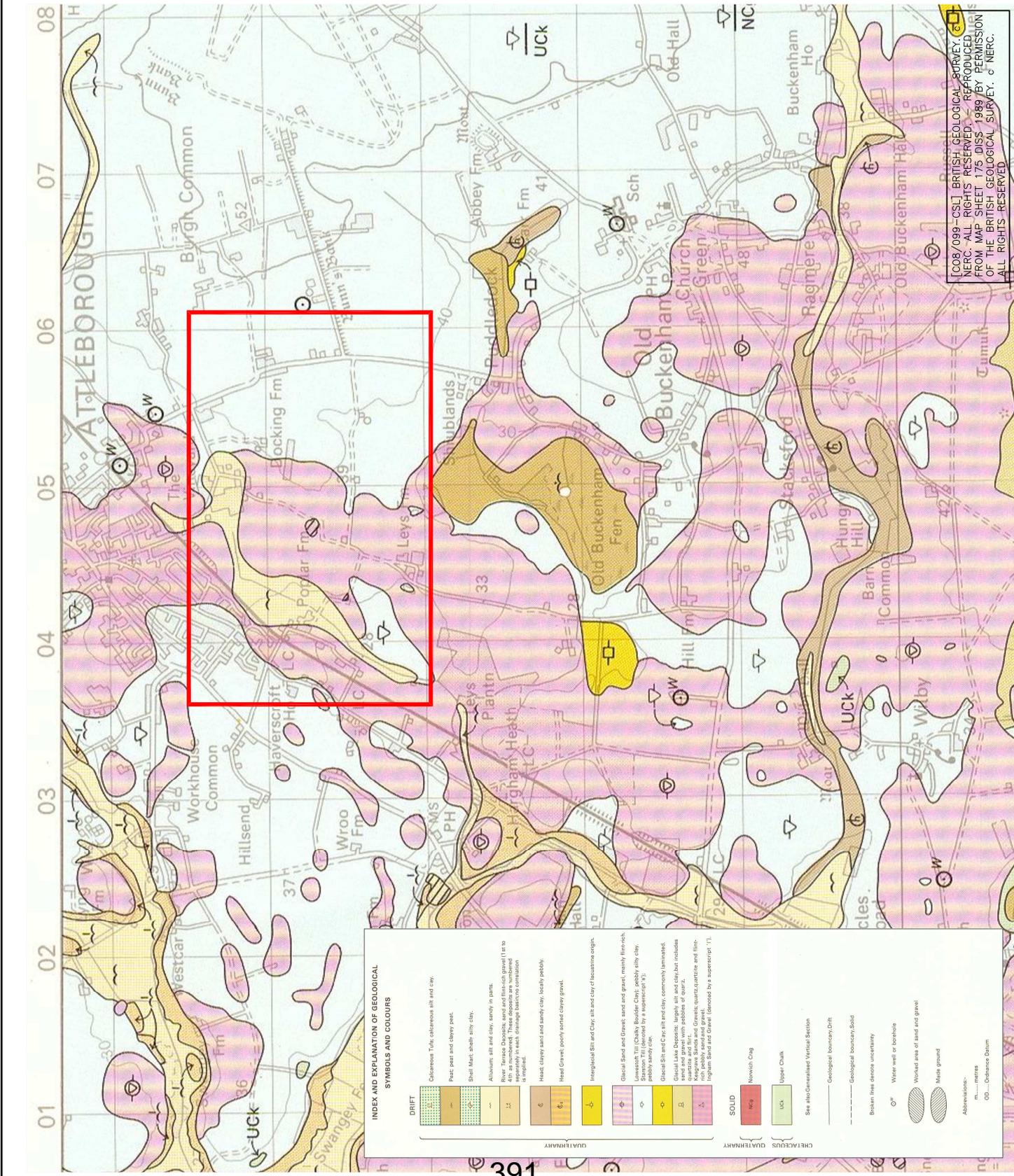
GEOLOGICAL PLAN

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**INDEX AND EXPLANATION OF GEOLOGICAL SYMBOLS AND COLOURS**

**DRIFT**

- Coloursand: Tuff, calcareous silt and clay
- Peat: peat and clayey peat
- Shell: Marine shells, silt, clay
- Alluvium: silt and clay, sandy in parts
- River terrace deposits: sand and fine-grained gravel (1 to 2m) and coarse gravel (2 to 4m) deposited in such drainage basins as formation is impeded
- Head: clayey sand and sandy clay, locally pebbly
- Head Gravel: poorly sorted clayey gravel
- Interglacial Silt and Clay: silt and clay of freshwater origin
- Glacial Sand and Gravel: sand and gravel, mainly flint-rich
- Stonemasonry: (Glacial) Boulder clay, pebbly silt, clay, pebbly sandy clay
- Glacial Silt and Clay: silt and clay, commonly laminated
- Glacial Lake Deposits: largely silt and clay but includes sand and gravel with pebbles of quartz
- Knappe Sands and Gravels: quartzite and flint-rich sand and gravel (formed by a superglacial (?) Highgate Sand and Gravel)

**SOLID**

- Red: Norwich Crag
- Green: Upper Chalk

See also Geowise's Vertical Section

**CHRACTERISTICS**

- Geological boundaries: Dotted line
- Geological boundaries: Solid line
- Broken lines denote uncertainty
- Water well or borehole: Circle with 'W'
- Worked area of sand and gravel: Circle with 'W'
- Made ground: Circle with 'M'

**Abbreviations:**  
m...metres  
DD...Ordnance Datum

## Appendix A

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

41306037\_1\_1

**Customer Reference:**

CG6312-06

**National Grid Reference:**

603530, 293420

**Slice:**

A

**Site Area (Ha):**

155.36

**Search Buffer (m):**

250

**Site Details:**

Site at Attleborough

Norwich

Norfolk

**Client Details:**

Mr I Leek

Capita Symonds Ltd

The Capita Gwent Consultancy Ltd

Ty Gwent

Llantarnum Park

Cwmbran

Torfaen

NP44 3HR

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## Introduction

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

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

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## Radon Potential dataset Copyright Notice

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## Report Version v47.0

<b>Data Type</b>	<b>Page Number</b>	<b>On Site</b>	<b>0 to 250m (*up to 500m)</b>
<b>Agency &amp; Hydrological</b>			
Contaminated Land Register Entries and Notices			
Discharge Consents	pg 1	2	6
Enforcement and Prohibition Notices			
Integrated Pollution Controls			
Integrated Pollution Prevention And Control			
Local Authority Integrated Pollution Prevention And Control			
Local Authority Pollution Prevention and Controls	pg 3		1
Local Authority Pollution Prevention and Control Enforcements			
Nearest Surface Water Feature		Yes	
Pollution Incidents to Controlled Waters			
Prosecutions Relating to Authorised Processes			
Prosecutions Relating to Controlled Waters			
Registered Radioactive Substances			
River Quality	pg 3	1	
River Quality Biology Sampling Points			
River Quality Chemistry Sampling Points			
Substantiated Pollution Incident Register			
Water Abstractions	pg 3	2	1 (*8)
Water Industry Act Referrals			
Groundwater Vulnerability	pg 5	Yes	n/a
Bedrock Aquifer Designations	pg 6	Yes	n/a
Superficial Aquifer Designations	pg 6	Yes	n/a
Source Protection Zones			
Extreme Flooding from Rivers or Sea without Defences	pg 7	Yes	Yes
Flooding from Rivers or Sea without Defences	pg 7	Yes	Yes
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
<b>Waste</b>			
BGS Recorded Landfill Sites			
Historical Landfill Sites			
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)			
Local Authority Recorded Landfill Sites			
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			

<b>Data Type</b>	<b>Page Number</b>	<b>On Site</b>	<b>0 to 250m (*up to 500m)</b>
<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			
<b>Geological</b>			
BGS 1:625,000 Solid Geology	pg 9	Yes	n/a
BGS Estimated Soil Chemistry	pg 9	Yes	Yes
BGS Recorded Mineral Sites			
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages			
Brine Compensation Area			n/a
Coal Mining Affected Areas			n/a
Mining Instability			n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain	pg 14	Yes	
Potential for Collapsible Ground Stability Hazards	pg 14	Yes	
Potential for Compressible Ground Stability Hazards	pg 14	Yes	Yes
Potential for Ground Dissolution Stability Hazards	pg 14		Yes
Potential for Landslide Ground Stability Hazards	pg 14	Yes	
Potential for Running Sand Ground Stability Hazards	pg 14	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14	Yes	Yes
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a
<b>Industrial Land Use</b>			
Contemporary Trade Directory Entries	pg 16		27
Fuel Station Entries			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Sensitive Land Use</b>			
Areas of Adopted Green Belt			
Areas of Unadopted Green Belt			
Areas of Outstanding Natural Beauty			
Environmentally Sensitive Areas			
Forest Parks			
Local Nature Reserves			
Marine Nature Reserves			
National Nature Reserves			
National Parks			
Nitrate Sensitive Areas			
Nitrate Vulnerable Zones	pg 19	1	
Ramsar Sites			
Sites of Special Scientific Interest			
Special Areas of Conservation			
Special Protection Areas			

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Discharge Consents</b></p> <p>Operator: Mr &amp; Mrs C Bane  Property Type: Domestic Property (Single)  Location: Open View Leys Lane, Attleborough, Norfolk, Nr17 1nr  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Pr11fu206  Permit Version: 1  Effective Date: 16th August 1983  Issued Date: 16th August 1983  Revocation Date: 13th June 1997  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Into Land  Environment:  Receiving Water: Land  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 10m</p>	A12SE (E)	0	1	604550 293247
2	<p><b>Discharge Consents</b></p> <p>Operator: Mrs Iris Holdom  Property Type: Mixed Farming  Location: Potmere Farm Hargham Road, Attleborough, Norfolk, Nr17 1az  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr1nfg0102g  Permit Version: 1  Effective Date: 6th June 1963  Issued Date: 6th June 1963  Revocation Date: 20th June 1991  Discharge Type: Agricultural effluents  Discharge: Not Supplied  Environment:  Receiving Water: Not Supplied  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SW)	0	1	603300 293200
3	<p><b>Discharge Consents</b></p> <p>Operator: Kilby Mr C  Property Type: Sewage Disposal Works - Other  Location: Hawthorndon London Road, Attleborough, Norfolk, Nr17 1be  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Prcnrf17928  Permit Version: 1  Effective Date: 8th November 2006  Issued Date: 17th November 2006  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Ditch In R Thet Catchment  <b>Status:</b> New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)  Positional Accuracy: Located by supplier to within 10m</p>	A15SW (N)	22	1	603370 294090
4	<p><b>Discharge Consents</b></p> <p>Operator: Mr R C Smith  Property Type: Domestic Property (Single)  Location: The Cottage Poplar Road, Cow Common, Attleborough., Norfolk, Nr17 1bd  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr11f2253  Permit Version: 1  Effective Date: 17th February 1986  Issued Date: 17th February 1986  Revocation Date: 1st October 1996  Discharge Type: Unknown  Discharge: Land/Soakaway  Environment:  Receiving Water: Into Land  <b>Status:</b> Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989  Positional Accuracy: Located by supplier to within 100m</p>	A11SE (E)	31	1	603900 293500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Discharge Consents</b></p> <p>Operator: Mr Bell  Property Type: Domestic Property (Single)  Location: Laburnham Cottage Poplar Road, Cow Common, Attleborough., Norfolk, Nr17 1bd  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr11f3309  Permit Version: 1  Effective Date: 12th July 1988  Issued Date: 12th July 1988  Revocation Date: 1st October 1996  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Into Land  Environment:  Receiving Water: Land  <b>Status:</b> <b>Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A11NE (NE)	60	1	603847 293569
6	<p><b>Discharge Consents</b></p> <p>Operator: Bates, Alan  Property Type: Sewage Disposal Works - Other  Location: Hillcroft Attleborough Hillcroft, Hargham Rd, Attleborough, Norfolk, Nr17 1ba  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Prcnf17008  Permit Version: 1  Effective Date: 11th June 2003  Issued Date: 23rd June 2003  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Not Supplied  <b>Status:</b> <b>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>	A11NE (NE)	107	1	603730 293700
7	<p><b>Discharge Consents</b></p> <p>Operator: Mrs G Beck  Property Type: Domestic Property (Single)  Location: Levi Cottage Cow Common, Attleborough, Norfolk, Nr17 1bd  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Prclf01807  Permit Version: 1  Effective Date: 20th October 1989  Issued Date: 20th October 1989  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company  Discharge: Land/Soakaway  Environment:  Receiving Water: Land  <b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A12NW (NE)	233	1	604010 293670
7	<p><b>Discharge Consents</b></p> <p>Operator: Mr B M &amp; Mrs K M Cowley  Property Type: Sewage Disposal Works - Other  Location: Premises At 2 Levi Cottages Poplar Rd, Low Common, Attleboro, Norfolk, Nr17 1bd  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Prclf01713  Permit Version: 1  Effective Date: 19th October 1989  Issued Date: 19th October 1989  Revocation Date: 5th August 1997  Discharge Type: Unknown  Discharge: Onto Land  Environment:  Receiving Water: Land  <b>Status:</b> <b>Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A12NW (NE)	247	1	604020 293680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<b>Local Authority Pollution Prevention and Controls</b> Name: Autobiz (Anglia) Ltd Location: Chequered Flag Garage, Old London Road, ATTLEBOROUGH, Norfolk, NR17 1BG Authority: Breckland District Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Manually positioned to the address or location	A15SW (N)	162	2	603479 294188
	<b>Nearest Surface Water Feature</b>	A7NW (S)	0	-	603566 293174
	<b>River Quality</b> Name: Buckenham Strm GQA Grade: River Quality D Reach: Leys Plantation ... R. Thet Estimated Distance (km): 3.7 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A11SE (SE)	0	1	603828 293254
9	<b>Water Abstractions</b> Operator: S E Cracknell Licence Number: 6/33/44/*G/0016 Permit Version: 100 Location: Borehole At Leys 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 September 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	0	1	604500 293000
10	<b>Water Abstractions</b> Operator: W C Baldwin And Son Licence Number: 6/33/44/*g/205 Permit Version: Not Supplied Location: Seepage Pit, ATTLEBOROUGH Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Catchpit, Catchment Tank or Collecting Tank Daily Rate (m3): 11 Yearly Rate (m3): 133600 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	A7NE (SE)	0	1	603700 293200
11	<b>Water Abstractions</b> Operator: J & M Clarke Licence Number: 6/33/44/*G/0081 Permit Version: 100 Location: Well At Wroo 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 December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (W)	31	1	602800 293500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0036 Permit Version: 100 Location: Borehole At Poplar Farm 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: Time Limit Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 8th May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	398	1	604160 293775
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*g/036 Permit Version: Not Supplied Location: Borehole At, Poplar Farm, ATTLEBOROUGH, Norfolk Authority: Environment Agency, Anglian Region Abstraction: Unspecified Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 104 Yearly Rate (m3): 2412700 Details: C Chalk 9; Status: Time Limit 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	A12NW (NE)	400	1	604165 293775
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: An/033/0044/017 Permit Version: 1 Location: Borehole At Poplar Farm 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: Poplar Farm, Attleborough Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 15th June 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0346 Permit Version: 1 Location: Borehole At Poplar Farm 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: 30 September Permit Start Date: 25th June 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0335 Permit Version: 1 Location: Borehole At Poplar Farm 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: 30 September Permit Start Date: 29th June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0036 Permit Version: 101 Location: Borehole At Poplar 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0036 Permit Version: 101 Location: Borehole At Poplar Farm 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: 30 September Permit Start Date: 2nd July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780
	<b>Water Abstractions</b> Operator: J S Cracknell Licence Number: 6/33/44/*G/0036 Permit Version: 100 Location: Borehole At Poplar 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: Time Limit Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	403	1	604160 293780
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	(E)	0	1	605120 293733

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I2) - Soils which can possibly transmit non or weakly absorbed pollutants and liquid discharges but are unlikely to transmit absorbed pollutants Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	A11SE (E)	0	1	603730 293348
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	A11SW (W)	0	1	603527 293416
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	(E)	0	1	604724 293072
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	A8NW (E)	0	1	604244 293135
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	A11SE (E)	0	1	603834 293290
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	A11SW (SW)	0	1	603436 293351
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	(E)	0	3	605001 293416
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	A11SW (W)	0	3	603527 293416
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A11NW (N)	0	3	603413 293787
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A10NE (NW)	0	3	603208 293889
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A11SW (W)	0	3	603527 293416
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A10SE (W)	0	3	603190 293548
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A11NW (N)	0	3	603582 293624
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	(E)	0	3	605001 293506
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(E)	0	3	604804 293076
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A8NE (E)	0	3	604324 293124
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A11SE (SE)	0	3	603879 293268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(E)	0	3	604816 293488
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A11SW (SW)	0	3	603469 293355
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(E)	0	3	605001 293416
	<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	A11SW (E)	0	1	603570 293415
	<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	A12SW (E)	33	1	603960 293465
	<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	A11SW (E)	0	1	603570 293405
	<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	A12SW (E)	27	1	603955 293460
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Norfolk County Council - Has supplied landfill data		0	7	603527 293416
	<b>Local Authority Landfill Coverage</b> Name: Breckland District Council - Has no landfill data to supply		0	2	603527 293416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Chalk including Red Chalk	A11SW (W)	0	3	603527 293416
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SE)	0	4	603728 293000
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A7NW (S)	0	4	603527 293000
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A8NW (SE)	0	4	604000 293000
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A12SW (E)	0	4	604000 293416
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A7NE (SE)	0	4	603874 293000
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	A10SE (W)	0	4	603189 293547

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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A11SE (SE)	0	4	603777 293240
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A11NW (N)	0	4	603581 293623
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A10SE (W)	0	4	603000 293416
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A10SE (W)	0	4	603000 293466
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A11SW (N)	0	4	603529 293552
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A11SW (W)	0	4	603527 293416

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: <150 mg/kg Nickel <15 mg/kg Concentration:	A12SW (E)	0	4	604020 293434
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A8NE (E)	0	4	604323 293123
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A11SW (SW)	0	4	603468 293354
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A11SE (SE)	0	4	603878 293268
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A11NW (N)	0	4	603413 293786
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A10NE (NW)	0	4	603207 293888

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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A15SW (N)	0	4	603527 294000
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A12SW (E)	9	4	604000 293420
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A6NE (SW)	22	4	603000 293147
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A6NW (SW)	52	4	602885 293110
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A14SE (NW)	66	4	603000 294000
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A7NW (SW)	88	4	603253 293000

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: <150 mg/kg Nickel <15 mg/kg Concentration:	A10SW (W)	103	4	602624 293310
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A12SW (E)	120	4	604000 293542
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	(SE)	134	4	604680 292829
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A6NE (SW)	162	4	603000 293000
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A7SW (S)	207	4	603583 292811
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	A10NW (W)	214	4	602683 293684
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<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	A11SW (W)	0	3	603527 293416
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	3	603777 293240
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SW (S)	205	3	603584 292812
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	3	603777 293240
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	173	3	604270 293498
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7SW (S)	205	3	603584 292812
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	603120 293705
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	29	3	602723 293398
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	3	603777 293240
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SW (S)	205	3	603584 292812
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	3	603208 293889
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	0	3	604324 293124
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	3	603777 293240
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (SE)	0	3	603879 293268
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	0	3	603469 293355
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	3	603190 293548
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	603582 293624
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	603413 293787
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	51	3	602886 293111
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	102	3	602625 293311
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7SW (S)	205	3	603584 292812
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NW (W)	214	3	602684 293685
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	0	3	603527 293416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<b>Contemporary Trade Directory Entries</b> Name: Analogue Associates Location: 31, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Electronic Engineers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	25	-	603417 294023
12	<b>Contemporary Trade Directory Entries</b> Name: Nigel England Location: 30, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Car Dealers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	65	-	603456 294009
12	<b>Contemporary Trade Directory Entries</b> Name: Nigel England Location: 30, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Car Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	65	-	603456 294009
12	<b>Contemporary Trade Directory Entries</b> Name: Coakley & Cox Ltd Location: 29, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Upholstery Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	77	-	603468 294005
12	<b>Contemporary Trade Directory Entries</b> Name: Robert Kemp Location: 17, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	96	-	603480 293990
13	<b>Contemporary Trade Directory Entries</b> Name: Aquaflame Ltd Location: 32, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Central Heating Supplies & Equipment <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	70	-	603462 294081
14	<b>Contemporary Trade Directory Entries</b> Name: Joe Desira Location: Unit 1, Hillsend La, Attleborough, Norfolk, NR17 1BG Classification: Car Dealers <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A15SW (N)	118	-	603393 294189
15	<b>Contemporary Trade Directory Entries</b> Name: Harrison Veterinary Equipment Location: Haverscroft Ind Est, New Rd, Attleborough, Norfolk, NR17 1YE Classification: Veterinary Equipment Manufacturers <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A15SW (N)	138	-	603520 293974
15	<b>Contemporary Trade Directory Entries</b> Name: Breckland Body Tech Location: 28, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Car Body Repairs <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974
15	<b>Contemporary Trade Directory Entries</b> Name: Norwich Sunblinds Location: 11-14, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Blinds, Awnings & Canopies <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974
15	<b>Contemporary Trade Directory Entries</b> Name: A-Buzz Location: 18-19, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: PVC-U Products - Manufacturers & Suppliers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<b>Contemporary Trade Directory Entries</b> Name: Central Tools & Consumables Location: 18-19, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Fascias and Soffits <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974
15	<b>Contemporary Trade Directory Entries</b> Name: Norwich Labels Location: 23-24, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974
15	<b>Contemporary Trade Directory Entries</b> Name: Cambridge Sunblinds Location: 11-14, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Blinds, Awnings & Canopies <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603520 293974
16	<b>Contemporary Trade Directory Entries</b> Name: Hillday Ltd Location: 1, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Machinery - Industrial & Commercial <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603536 294080
16	<b>Contemporary Trade Directory Entries</b> Name: Boris Ltd Location: 1, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Fork Lift Trucks <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	138	-	603536 294080
16	<b>Contemporary Trade Directory Entries</b> Name: Breckland Prints Location: 4a, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Printers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	145	-	603541 294088
16	<b>Contemporary Trade Directory Entries</b> Name: The Colchester Print Group Location: 4a, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Printers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	145	-	603541 294088
16	<b>Contemporary Trade Directory Entries</b> Name: Trust Telecommunications Location: Suite 1, Unit 4C, Haverscroft Ind Est, New Rd, Attleborough, Norfolk, NR17 1YE Classification: Telecommunications Equipment & Systems <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A15SW (N)	165	-	603556 294106
17	<b>Contemporary Trade Directory Entries</b> Name: Chequered Flag Location: London Road, Attleborough, Norfolk, NR17 1BE Classification: Car Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	162	-	603479 294188
18	<b>Contemporary Trade Directory Entries</b> Name: The Pattern Shop Location: 5b, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Pattern Makers - Industrial <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	186	-	603585 294013
18	<b>Contemporary Trade Directory Entries</b> Name: Acutech Ltd Location: 5b, Haverscroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Precision Engineers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SW (N)	186	-	603585 294013

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<b>Contemporary Trade Directory Entries</b> Name: Breckland Industrial Ltd Location: 4b, Havercroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Commercial Cleaning Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SE (N)	188	-	603589 294023
18	<b>Contemporary Trade Directory Entries</b> Name: Catertech (Norwich) Ltd Location: E, 4, Havercroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Catering Equipment <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SE (N)	197	-	603599 294047
18	<b>Contemporary Trade Directory Entries</b> Name: H R M Boilers Ltd Location: 2, Havercroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Boiler Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SE (N)	210	-	603611 294063
18	<b>Contemporary Trade Directory Entries</b> Name: Hydramec Ltd Location: 3, Havercroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Testing, Inspection & Calibration Equipment Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A15SE (N)	210	-	603611 294063
18	<b>Contemporary Trade Directory Entries</b> Name: Harrison Veterinary Equipment Location: 5a, Havercroft Industrial Estate, New Road, Attleborough, Norfolk, NR17 1YE Classification: Veterinary Pharmacies <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A15SE (N)	220	-	603621 294025

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A11SW (W)	0	5	603527 293416

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Breckland District Council - Environmental Health Department	May 2012	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region	June 2012	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<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	June 2012	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region	June 2012	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Anglian Region	July 2012	Quarterly
<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	July 2012	Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	September 2011	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	September 2011	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	July 2012	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	July 2012	Quarterly
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 - Anglian Region - Central Area	July 2012	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	July 2012	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Central Area	July 2012	Quarterly
<b>Local Authority Landfill Coverage</b> Breckland District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Breckland District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2012	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	June 2012	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Norfolk County Council - Planning & Transportation - Minerals & Waste Breckland District Council - Health and Housing	June 2007 October 2011	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Norfolk County Council - Planning & Transportation - Minerals & Waste Breckland District Council - Health and Housing	June 2007 October 2011	Annual Rolling Update Annual Rolling Update

<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Variable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2012	As notified
<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	February 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2012	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	May 2012	Quarterly

<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Areas of Outstanding Natural Beauty</b> Natural England	July 2012	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	February 2012	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2012	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	August 2012	Bi-Annually
<b>National Nature Reserves</b> Natural England	February 2012	Bi-Annually
<b>National Parks</b> Natural England	August 2012	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
<b>Ramsar Sites</b> Natural England	August 2012	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	August 2012	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	August 2012	Bi-Annually
<b>Special Protection Areas</b> Natural England	August 2012	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	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Countryside Council for Wales	 <b>CYNGOR CEFN GWLAD CYMRU</b> <b>COUNTRYSIDE COUNCIL FOR WALES</b>
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	<b>Breckland District Council - Environmental Health Department</b> Elizabeth House, Walpole Loke, Dereham, Norfolk, NR19 1EE	Telephone: 01362 656350 Fax: 01362 656266 Website: www.breckland.gov.uk
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	<b>Landmark Information Group Limited</b> 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
5	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	<b>Norfolk County Council - Planning &amp; Transportation - Minerals &amp; Waste</b> County Hall, Martineau Lane, Norwich, Norfolk, NR1 2DH	Telephone: 0844 800 8020 Fax: 0844 800 8012 Email: information@norfolk.gov.uk Website: www.norfolk.gov.uk
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

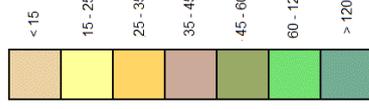
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.

**General**

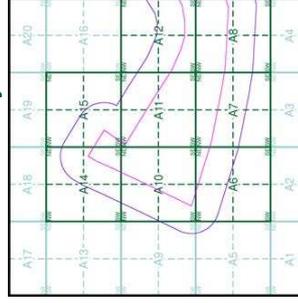
- Specified Site
- Specified Buffer(s)
- X Being Reference Point

**Estimated Soil Chemistry Arsenic**

Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice A**

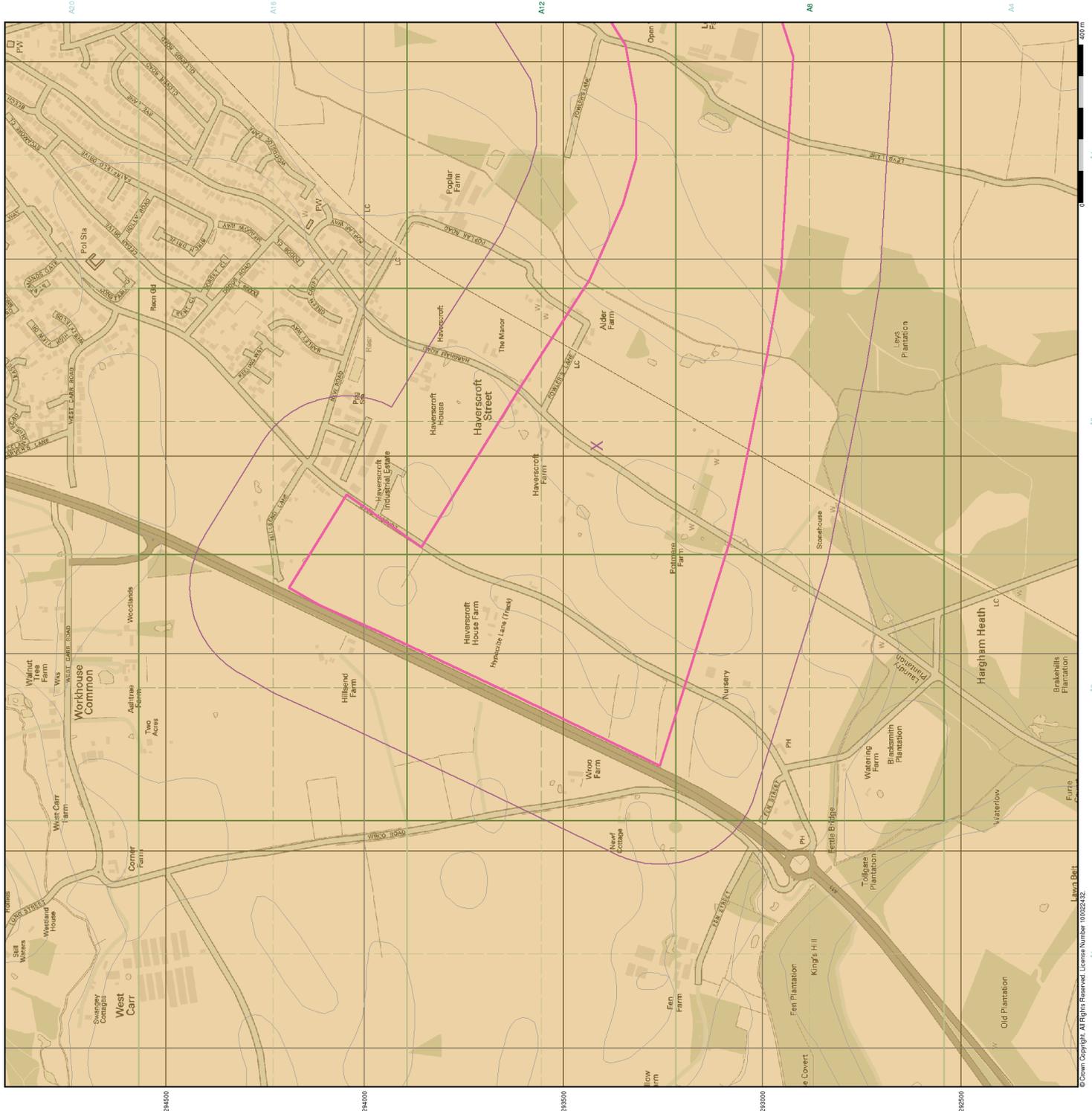


**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Slice: A  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

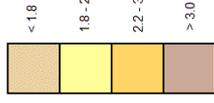


**General**

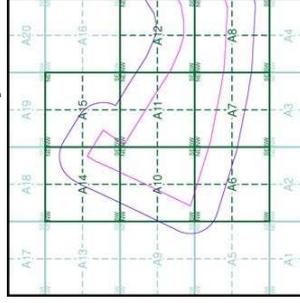
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- Specified Buffer(s)
- Existing Reference Point

**Estimated Soil Chemistry Cadmium**

Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice A**

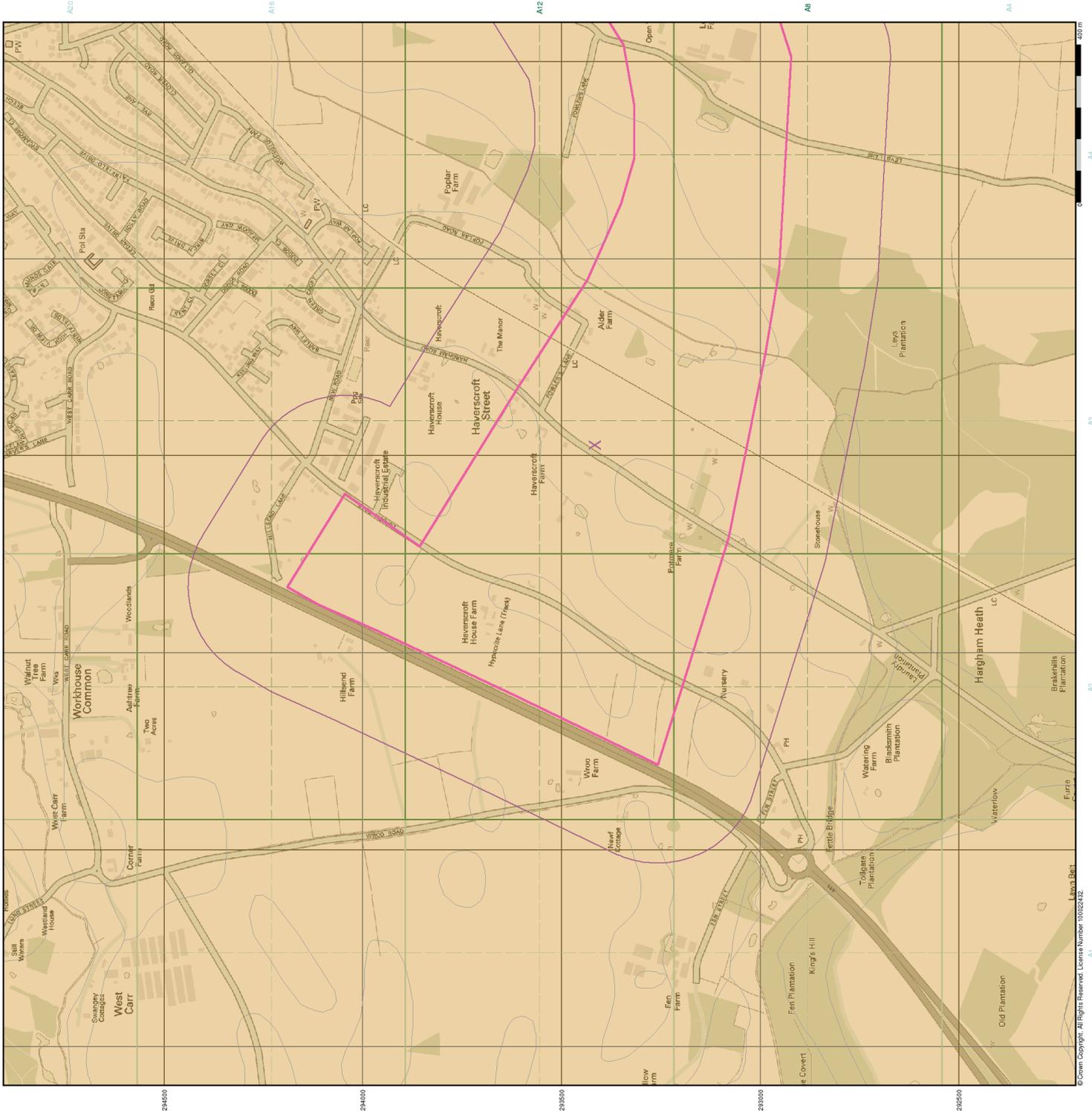


**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Site: A  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk



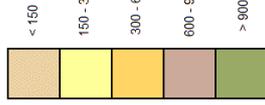


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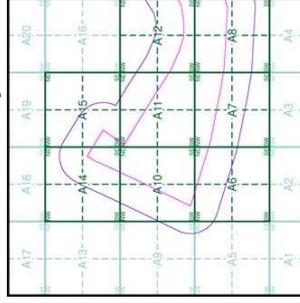
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice A**

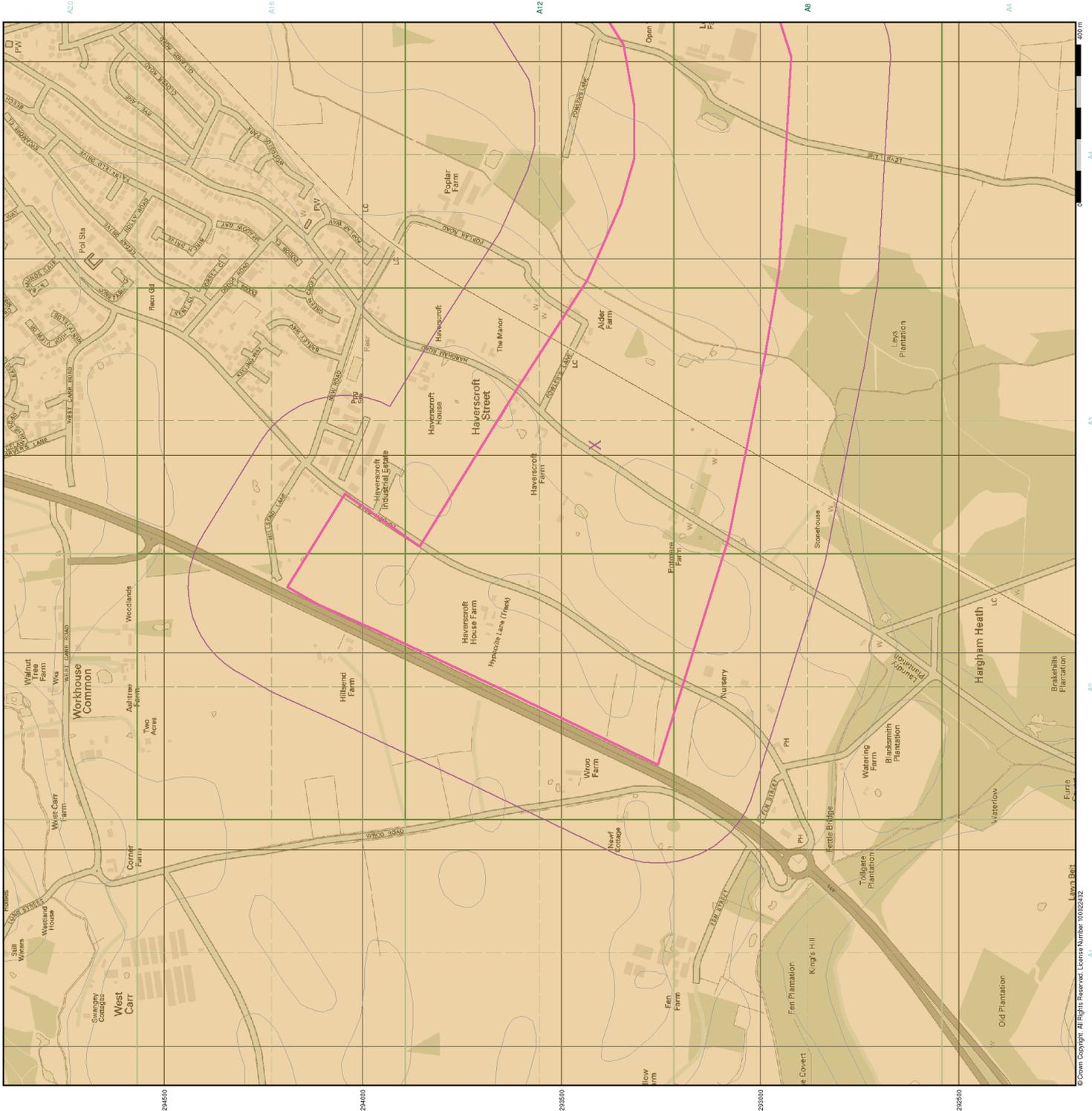


**Order Details**

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 National Grid Reference: 603530, 293420  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

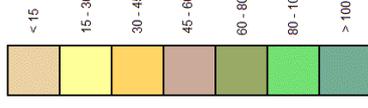


**General**

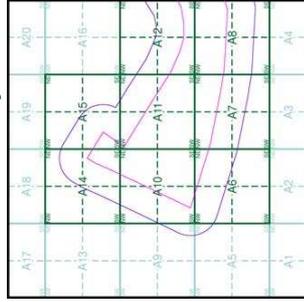
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Nickel**

Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice A**



**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Site: A  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

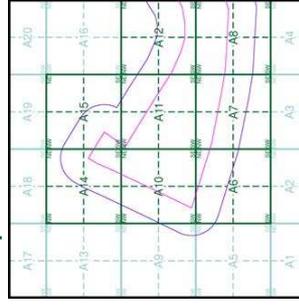
Site at Attleborough, Norwich, Norfolk





- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
- Agency and Hydrological (Flood)**
- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
  - Flooding from Rivers or Sea without Defences (Zone 3)
  - Area Benefiting from Flood Defence
  - Flood Water Storage Areas
  - Flood Defence

**Flood Map - Slice A**

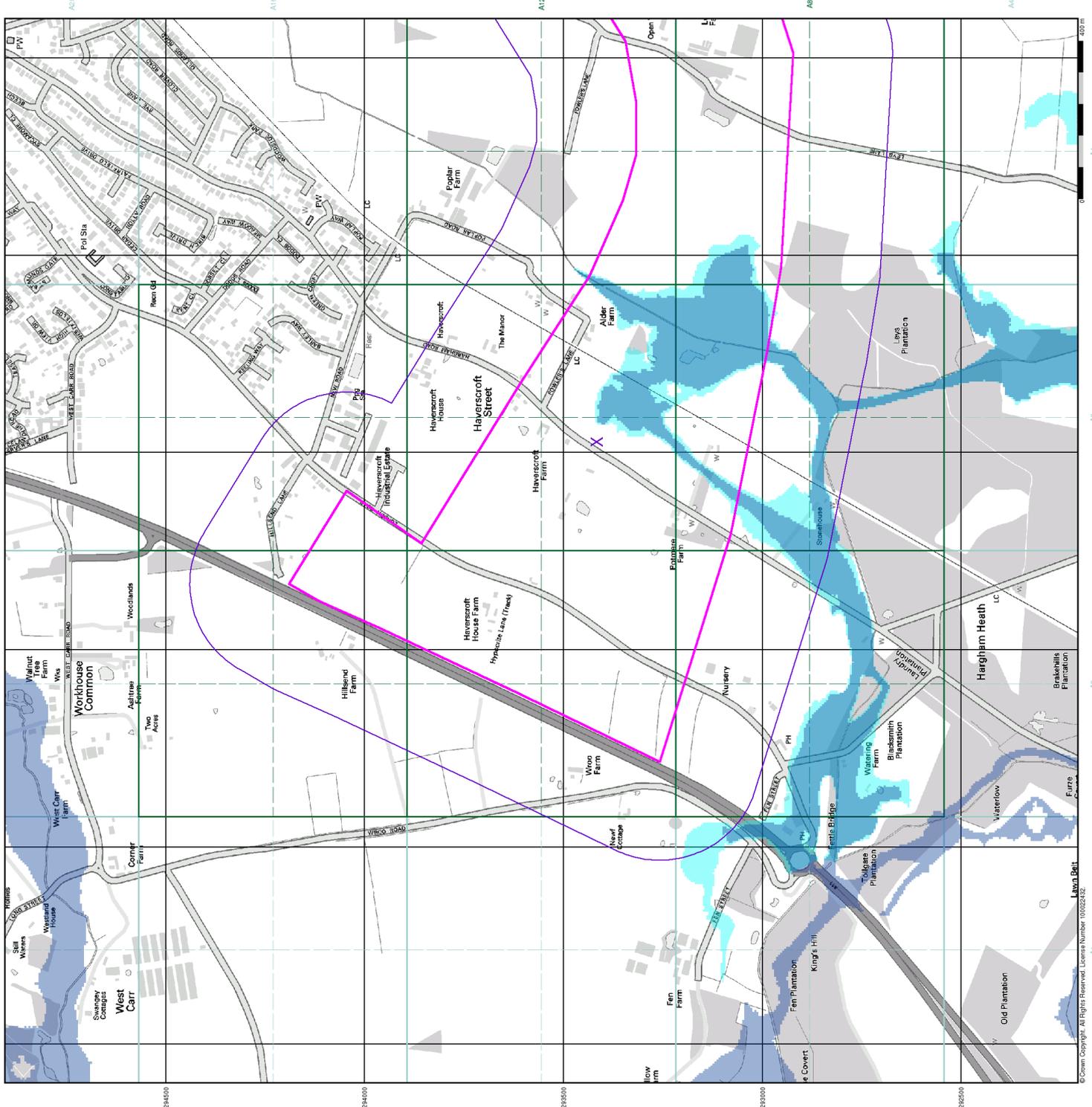


**Order Details**

Order Number: 41306037\_1\_1  
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 National Grid Reference: 603530, 293420  
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 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

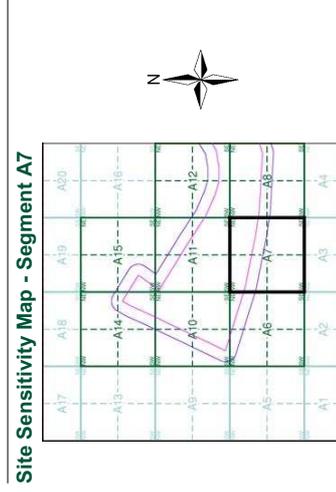
Site at Attleborough, Norwich, Norfolk







- General**
- Specified Site
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - Contaminated Land Register Entry or Notice
  - EA Historic Landfill (Refused Row)
  - EA Historic Landfill (Physion)
  - Integrated Pollution Control Registered
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Point Refused to 10m)
  - Registered Landfill Site (Point Refused to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

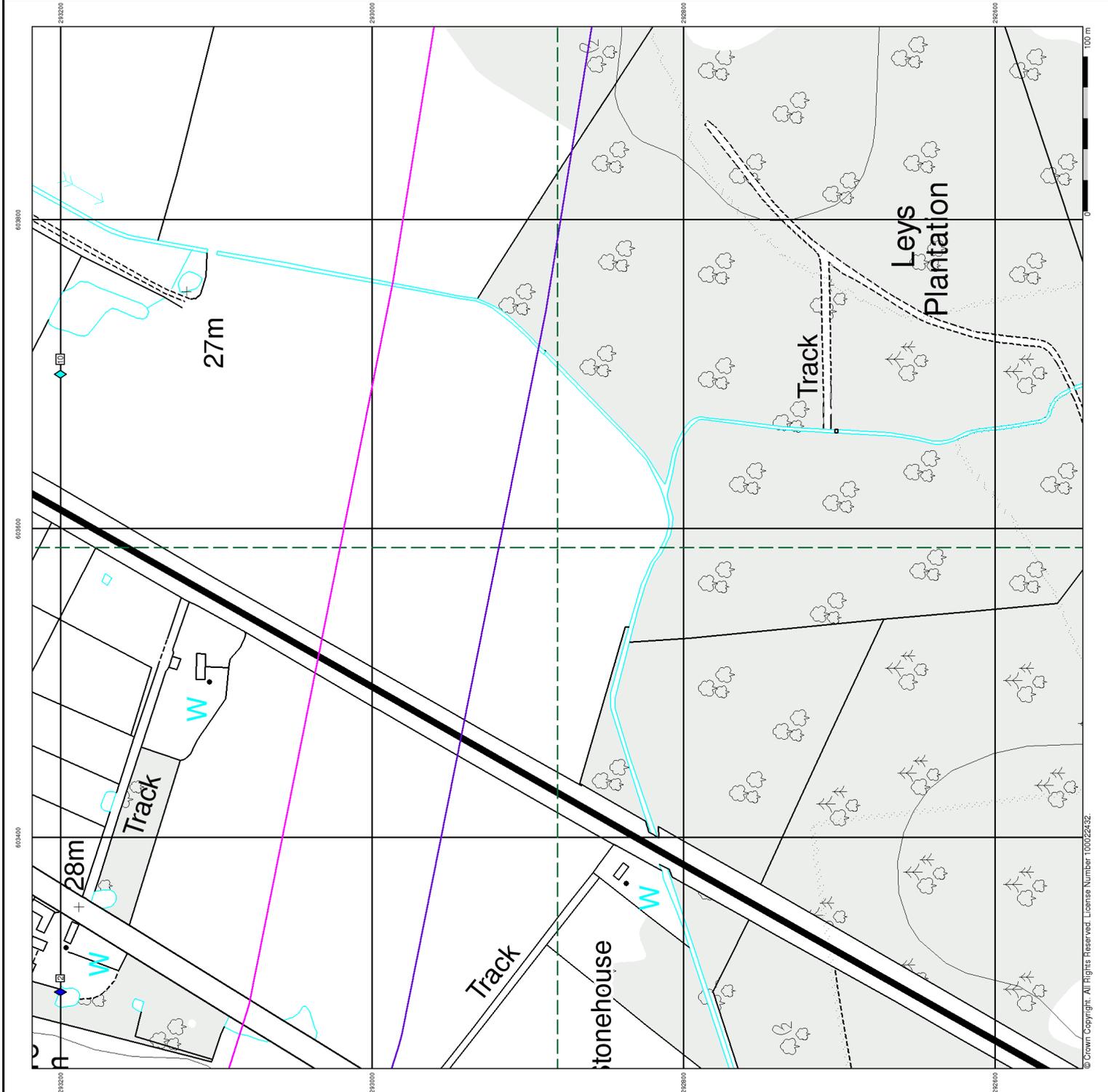


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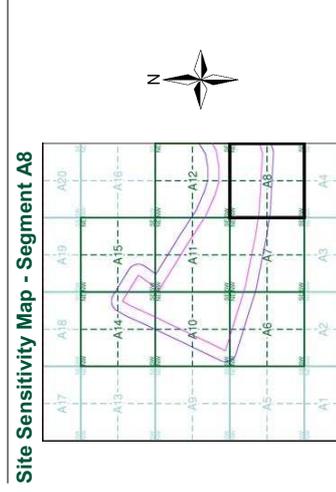
Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Slice: A  
 Site Area (Ha): 155.36

**Site Details**

Site at Attleborough, Norwich, Norfolk



- General**
- Specified Site
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site
  - EA Historic Landfill (Refined Peak)
  - EA Historic Landfill (Rhyon)
  - Integrated Pollution Control Registered Landfill Boundary
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

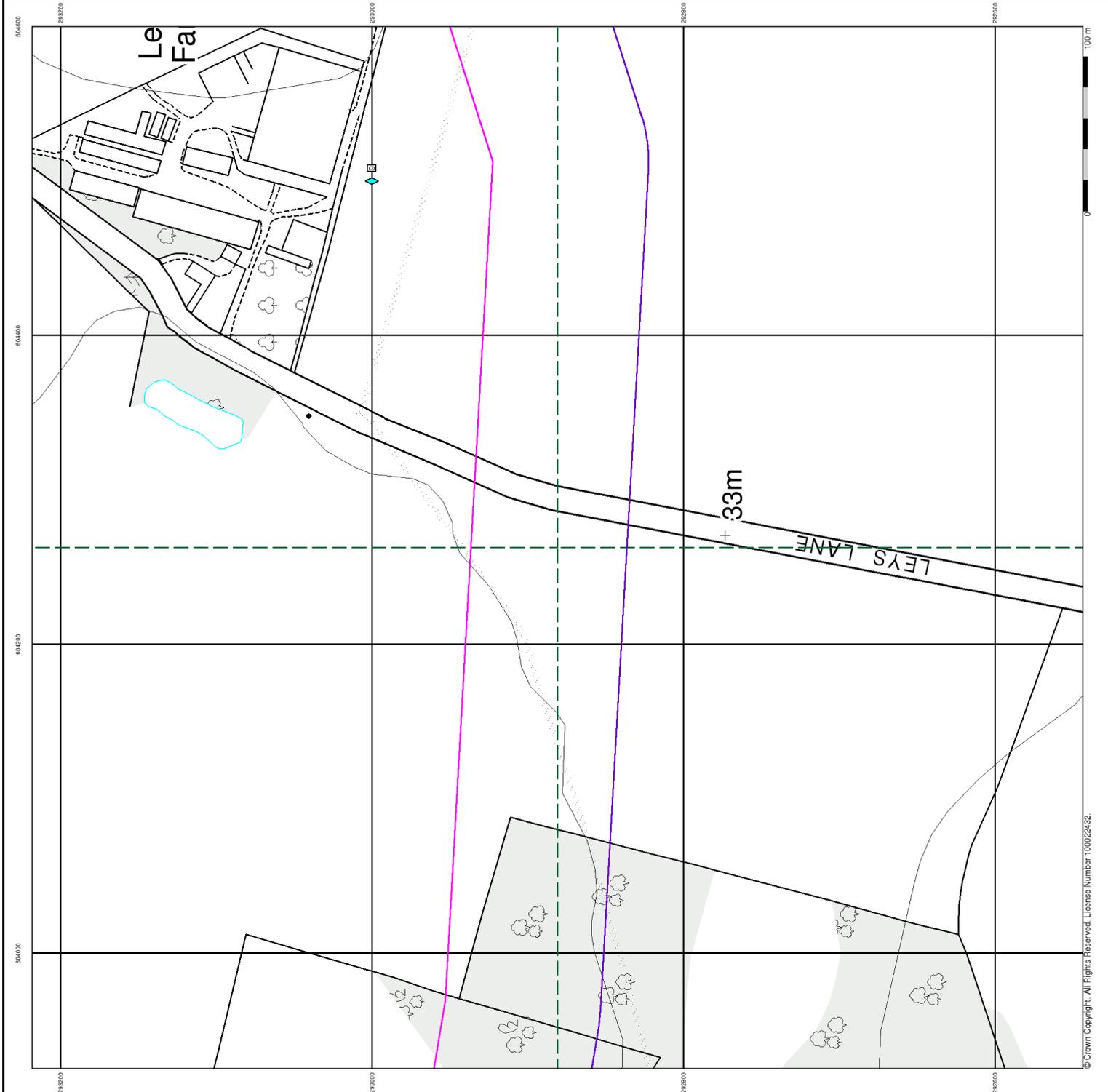


**Order Details**

Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Slice: A  
 Site Area (Ha): 155.36

**Site Details**

Site at Attleborough, Norwich, Norfolk



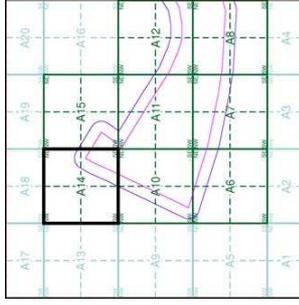






- General**
- Specified Site
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site
  - EA Historic Landfill (Refused Row)
  - EA Historic Landfill (Refused Row)
  - Integrated Pollution Control Registered (Location Boundary)
  - Licensed Waste Management Facility (Location)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

**Site Sensitivity Map - Segment A14**

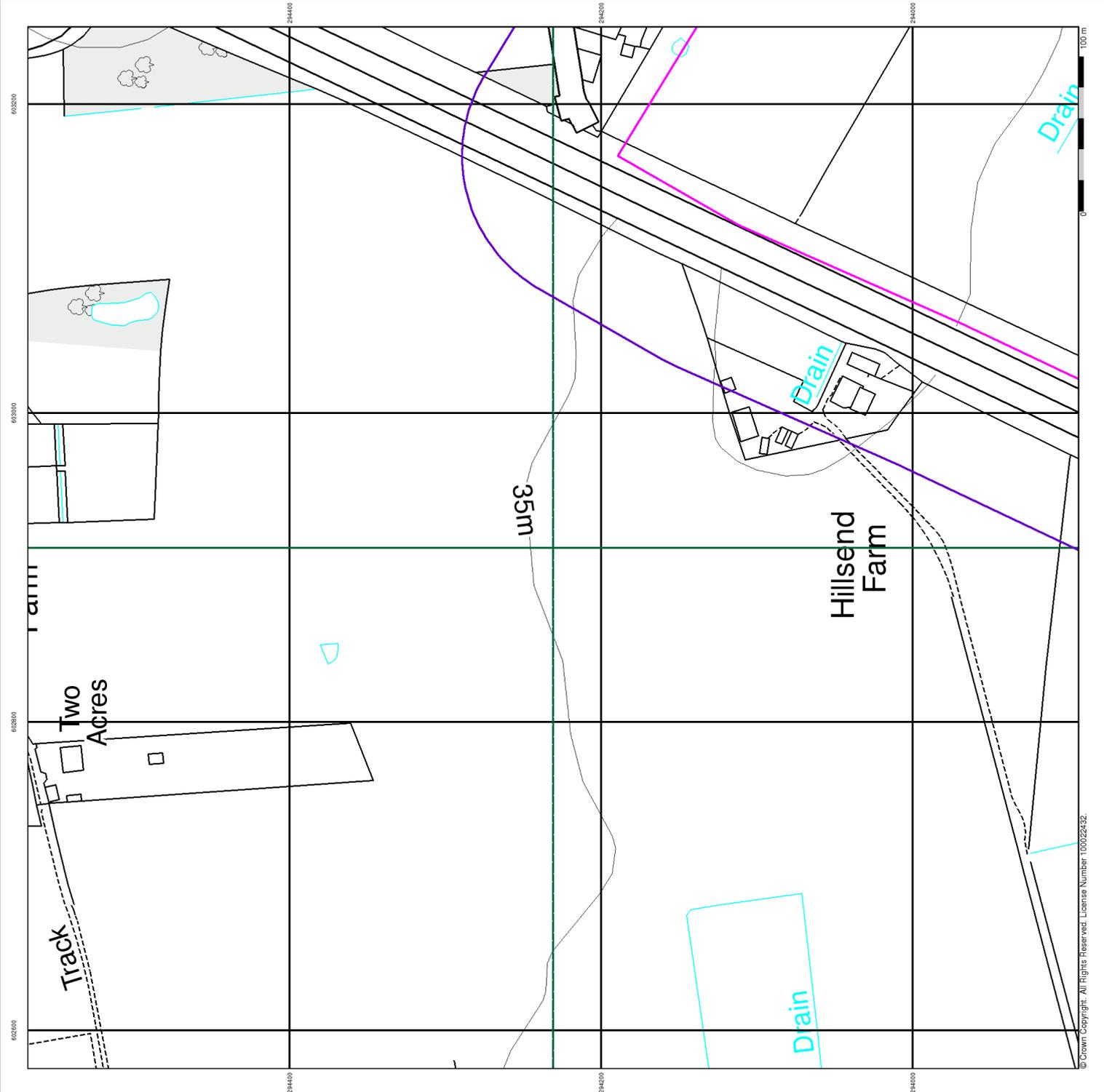


**Order Details**

Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 603530, 293420  
 Slice: A  
 Site Area (Ha): 155.36

**Site Details**

Site at A14, Norwich, Norfolk





## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

41306037\_1\_1

**Customer Reference:**

CG6312-06

**National Grid Reference:**

605300, 293560

**Slice:**

B

**Site Area (Ha):**

155.36

**Search Buffer (m):**

250

#### Site Details:

Site atAttleborough

Norwich

Norfolk

#### Client Details:

Mr I Leek

Capita Symonds Ltd

The Capita Gwent Consultancy Ltd

Ty Gwent

Llantarnum Park

Cwmbran

Torfaen

NP44 3HR

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	6
Hazardous Substances	-
Geological	7
Industrial Land Use	-
Sensitive Land Use	11
Data Currency	12
Data Suppliers	16
Useful Contacts	17

## 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 and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

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

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## Report Version v47.0

<b>Data Type</b>	<b>Page Number</b>	<b>On Site</b>	<b>0 to 250m (*up to 500m)</b>
<b>Agency &amp; Hydrological</b>			
Contaminated Land Register Entries and Notices			
Discharge Consents	pg 1		4
Enforcement and Prohibition Notices			
Integrated Pollution Controls			
Integrated Pollution Prevention And Control			
Local Authority Integrated Pollution Prevention And Control			
Local Authority Pollution Prevention and Controls			
Local Authority Pollution Prevention and Control Enforcements			
Nearest Surface Water Feature	pg 1	Yes	
Pollution Incidents to Controlled Waters			
Prosecutions Relating to Authorised Processes			
Prosecutions Relating to Controlled Waters	pg 2		1
Registered Radioactive Substances			
River Quality			
River Quality Biology Sampling Points			
River Quality Chemistry Sampling Points			
Substantiated Pollution Incident Register			
Water Abstractions	pg 2		(*10)
Water Industry Act Referrals			
Groundwater Vulnerability	pg 4	Yes	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a
Source Protection Zones	pg 5		2
Extreme Flooding from Rivers or Sea without Defences	pg 5	Yes	
Flooding from Rivers or Sea without Defences	pg 5	Yes	
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
<b>Waste</b>			
BGS Recorded Landfill Sites	pg 6		1
Historical Landfill Sites	pg 6		1
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)			
Local Authority Recorded Landfill Sites	pg 6		1
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<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			
<b>Geological</b>			
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes
BGS Recorded Mineral Sites			
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages			
Brine Compensation Area			n/a
Coal Mining Affected Areas			n/a
Mining Instability			n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain	pg 9	Yes	
Potential for Collapsible Ground Stability Hazards	pg 9	Yes	
Potential for Compressible Ground Stability Hazards	pg 9		Yes
Potential for Ground Dissolution Stability Hazards			
Potential for Landslide Ground Stability Hazards	pg 10	Yes	
Potential for Running Sand Ground Stability Hazards	pg 10	Yes	
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 10	Yes	Yes
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a
<b>Industrial Land Use</b>			
Contemporary Trade Directory Entries			
Fuel Station Entries			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Sensitive Land Use</b>			
Areas of Adopted Green Belt			
Areas of Unadopted Green Belt			
Areas of Outstanding Natural Beauty			
Environmentally Sensitive Areas			
Forest Parks			
Local Nature Reserves			
Marine Nature Reserves			
National Nature Reserves			
National Parks			
Nitrate Sensitive Areas			
Nitrate Vulnerable Zones	pg 11	1	
Ramsar Sites			
Sites of Special Scientific Interest			
Special Areas of Conservation			
Special Protection Areas			

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: Sewage Disposal Works - Water Company  Location: Diss Road Ps, Attleborough  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Aecnf2253  Permit Version: 1  Effective Date: 2nd January 1990  Issued Date: 2nd January 1990  Revocation Date: 27th March 1996  Discharge Type: Storm /emergency overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Ditch Trib Main Idb Drain  <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	B10NE (E)	19	1	605800 293700
1	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: Sewage Disposal Works - Water Company  Location: Diss Road Ps, Attleborough  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Aw1nf1046  Permit Version: 1  Effective Date: 13th April 1973  Issued Date: 13th April 1973  Revocation Date: 7th June 2001  Discharge Type: Public Sewage: Storm Sewage Overflow  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Trib River Thet  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	B10NE (E)	19	1	605800 293700
1	<p><b>Discharge Consents</b></p> <p>Operator: Anglian Water Services Limited  Property Type: Sewerage Network - Pumping Station - Water Company  Location: Diss Road Pumping Station Diss Road, Attleborough, Attleborough, Norfolk, Nr17 1qb  Authority: Environment Agency, Anglian Region  Catchment Area: River Thet (Attleborough - Thetford)  Reference: Aecnf11499  Permit Version: 1  Effective Date: 31st May 2001  Issued Date: 20th June 2001  Revocation Date: Not Supplied  Discharge Type: Sewage Discharges - Pumping Station - Water Company  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Trib Of River Thet  <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>	B10NE (E)	29	1	605810 293720
2	<p><b>Discharge Consents</b></p> <p>Operator: Banham Poultry Produce Limited  Property Type: Undefined Or Other  Location: Factory At Bunn'S Bank, Attleborough  Authority: Environment Agency, Anglian Region  Catchment Area: Not Supplied  Reference: Pr1nf1817  Permit Version: 1  Effective Date: 30th January 1985  Issued Date: 30th January 1985  Revocation Date: 27th May 1992  Discharge Type: Trade Effluent  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Trib River Thet  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 100m</p>	B11NW (E)	216	1	606000 293700
	<p><b>Nearest Surface Water Feature</b></p>	B10NW (E)	0	-	605443 293597

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<b>Prosecutions Relating to Controlled Waters</b> Location: River Thet, Bunns Bank, ATTLEBOROUGH, Norfolk, NR17 Prosecution Text: NRA Anglian Data, Discharging sewage effluent into the River Thet, in breach of consent conditions. Prosecution Act: WA89 s107 Hearing Date: 12th March 1991 Verdict: Guilty Fine: 5000 Cost: 212.66 Positional Accuracy: Manually positioned within the geographical locality	B11SW (E)	196	1	606002 293518
	<b>Water Abstractions</b> Operator: Banham Poultry Limited Licence Number: 6/33/44/*G/0345 Permit Version: 2 Location: Borehole No.2 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	298	1	606080 293730
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*G/0345 Permit Version: 1 Location: Borehole No.2 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	298	1	606080 293730
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*G/0280 Permit Version: 101 Location: Borehole No.2 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 9; Status: Temporary Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	298	1	606080 293725
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*g/230 Permit Version: Not Supplied Location: Borehole, ATTLEBOROUGH 2 Authority: Environment Agency, Anglian Region Abstraction: Industrial Processing ( Miscellaneous) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 189 Yearly Rate (m3): 727400 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	B11NW (E)	298	1	606080 293730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Banham Poultry Limited Licence Number: 6/33/44/*G/0218 Permit Version: 103 Location: Borehole 2 (Tm 09/194) At Bunns Bank Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 15th December 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	306	1	606088 293733
	<b>Water Abstractions</b> Operator: Banham Poultry Limited Licence Number: 6/33/44/*G/0218 Permit Version: 103 Location: Borehole 1 (Tm 09/140) At Bunns Bank Authority: Environment Agency, Anglian Region Abstraction: Food And Drink: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 15th December 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	379	1	606162 293720
	<b>Water Abstractions</b> Operator: Banham Poultry Limited Licence Number: 6/33/44/*G/0345 Permit Version: 2 Location: Borehole No.1 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	388	1	606170 293730
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*G/0345 Permit Version: 1 Location: Borehole No.1 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	388	1	606170 293730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*G/0280 Permit Version: 101 Location: Borehole No.1 At Attleborough Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 9; Status: Temporary Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th June 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	B11NW (E)	388	1	606170 293725
	<b>Water Abstractions</b> Operator: Banham Poultry Ltd Licence Number: 6/33/44/*g/230 Permit Version: Not Supplied Location: Borehole, ATTLEBOROUGH 1 Authority: Environment Agency, Anglian Region Abstraction: Industrial Processing ( Miscellaneous) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 189 Yearly Rate (m3): 727400 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	B11NW (E)	388	1	606170 293730
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B10NW (N)	0	1	605288 293600
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I2) - Soils which can possibly transmit non or weakly absorbed pollutants and liquid discharges but are unlikely to transmit absorbed pollutants Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B5NE (S)	0	1	605059 292952
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B10NW (SW)	0	1	605298 293562
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B5NW (SW)	0	1	604787 293103
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	(SW)	0	1	604337 293128
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	(W)	0	1	604327 293455

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 26 East Norfolk Scale: 1:100,000	B10NW (SW)	0	1	605298 293562
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	B10NW (SW)	0	2	605298 293562
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	B9NE (W)	0	2	605001 293562
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	B9NE (W)	0	2	605001 293562
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	B9NE (NW)	0	2	605141 293640
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	B5NW (SW)	0	2	604856 293107
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(SW)	0	2	604364 293147
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(W)	0	2	604417 293458
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	B9SE (W)	0	2	605001 293506
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	(NW)	0	2	604224 294277
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	B10NW (SW)	0	2	605298 293562
4	<b>Source Protection Zones</b> Name: Banham Poultry Source: Environment Agency, Head Office Reference: An261 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	B11NW (E)	198	1	605986 293677
5	<b>Source Protection Zones</b> Name: Various 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.	B11NW (E)	199	1	605988 293669
	<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	B5NE (SW)	0	1	605000 292940
	<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	B5NE (SW)	0	1	605000 292930
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>BGS Recorded Landfill Sites</b> Site Name: Lens Lane Location: ATTLEBOROUGH, Norfolk Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Unknown Boundary Accuracy: Not Applicable	B9NW (W)	137	2	604700 293600
7	<b>Historical Landfill Sites</b> Licence Holder: Wayland Rural District Council Location: Attleborough, Norfolk Name: Attleborough Operator Location: Council Offices, Attleborough, Norfolk Boundary Accuracy: As Supplied Provider Reference: EAHLD00616 First Input Date: 16th July 1971 Last Input Date: 23rd January 1979 Specified Waste Type: Deposited Waste included Inert, Commercial and Household Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 2600/0110 BGS Ref: Not Supplied Other Ref: WD 694	B9NW (W)	177	1	604781 293710
	<b>Local Authority Landfill Coverage</b> Name: Norfolk County Council - Has supplied landfill data		0	3	605298 293562
	<b>Local Authority Landfill Coverage</b> Name: Breckland District Council - Has no landfill data to supply		0	7	605298 293562
8	<b>Local Authority Recorded Landfill Sites</b> Location: Leys Lane, Attleborough Reference: Not Supplied Authority: Norfolk County Council, Planning & Transportation - Minerals & Waste <b>Last Reported Status:</b> Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	B9NW (W)	177	3	604779 293704

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Chalk including Red Chalk	B10NW (SW)	0	2	605298 293562
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	B5NE (SW)	0	4	605000 293000
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	B5NW (SW)	0	4	604855 293106
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	B9SE (W)	0	4	605000 293504
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	B9NE (W)	0	4	605000 293562
	<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: <150 mg/kg Nickel Concentration: <15 mg/kg	B9NE (NW)	0	4	605140 293639
	<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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B10NW (SW)	0	4	605298 293562

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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	B14SW (N)	0	4	605298 294000
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	B5NE (SW)	105	4	605053 293102
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	B5SW (SW)	134	4	604804 292841
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	B5NE (SW)	179	4	605000 292968
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	B5NE (S)	184	4	605158 293000
	<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 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	B11NW (E)	191	4	606000 293562

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: <150 mg/kg Nickel <15 mg/kg Concentration:	B5NE (SW)	205	4	605033 292960
	<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: <150 mg/kg Nickel <15 mg/kg Concentration:	B13SE (N)	228	4	605178 294000
	<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	B9NE (W)	0	2	605001 293562
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NE (SW)	178	2	605001 292970
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NE (SW)	204	2	605034 292961
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NW (W)	167	2	604792 293703
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	B5NE (SW)	178	2	605001 292970
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	B5NE (SW)	204	2	605034 292961
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B10SW (SE)	41	2	605410 293345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B5NW (SW)	0	2	604856 293107
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9SE (W)	0	2	605001 293506
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NE (NW)	0	2	605141 293640
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B5NE (SW)	105	2	605054 293103
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B5SW (SW)	133	2	604805 292842
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B9NE (W)	0	2	605001 293562
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B10NW (SW)	0	2	605298 293562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	B10NW (SW)	0	5	605298 293562

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Breckland District Council - Environmental Health Department	May 2012	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region	June 2012	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Breckland District Council - Environmental Health Department	November 2011	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<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	June 2012	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region	June 2012	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Anglian Region	July 2012	Quarterly
<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	July 2012	Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region	July 2012	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	September 2011	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	September 2011	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	July 2012	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	July 2012	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	July 2012	Quarterly
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 - Anglian Region - Central Area	July 2012	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	July 2012	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Central Area	July 2012	Quarterly
<b>Local Authority Landfill Coverage</b> Breckland District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Breckland District Council - Environmental Health Department Norfolk County Council - Planning & Transportation - Minerals & Waste	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2012	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	June 2012	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Norfolk County Council - Planning & Transportation - Minerals & Waste Breckland District Council - Health and Housing	June 2007 October 2011	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Norfolk County Council - Planning & Transportation - Minerals & Waste Breckland District Council - Health and Housing	June 2007 October 2011	Annual Rolling Update Annual Rolling Update

<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Variable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2012	As notified
<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	February 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2012	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	May 2012	Quarterly

<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Areas of Outstanding Natural Beauty</b> Natural England	July 2012	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	February 2012	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	February 2012	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	August 2012	Bi-Annually
<b>National Nature Reserves</b> Natural England	February 2012	Bi-Annually
<b>National Parks</b> Natural England	August 2012	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
<b>Ramsar Sites</b> Natural England	August 2012	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	August 2012	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	August 2012	Bi-Annually
<b>Special Protection Areas</b> Natural England	August 2012	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	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Countryside Council for Wales	 <b>CYNGOR CEFN GWLAD CYMRU</b> <b>COUNTRYSIDE COUNCIL FOR WALES</b>
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	<b>Norfolk County Council - Planning &amp; Transportation - Minerals &amp; Waste</b> County Hall, Martineau Lane, Norwich, Norfolk, NR1 2DH	Telephone: 0844 800 8020 Fax: 0844 800 8012 Email: information@norfolk.gov.uk Website: www.norfolk.gov.uk
4	<b>Landmark Information Group Limited</b> 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
5	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	<b>Breckland District Council - Environmental Health Department</b> Elizabeth House, Walpole Loke, Dereham, Norfolk, NR19 1EE	Telephone: 01362 656350 Fax: 01362 656266 Website: www.breckland.gov.uk
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

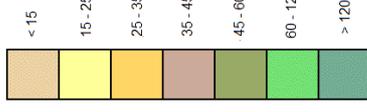
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.

**General**

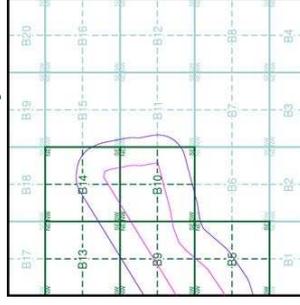
- Specified Site
- Specified Buffer(s)
- Being Reference Point

**Estimated Soil Chemistry Arsenic**

Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice B**



**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

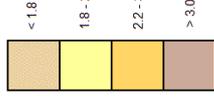


**General**

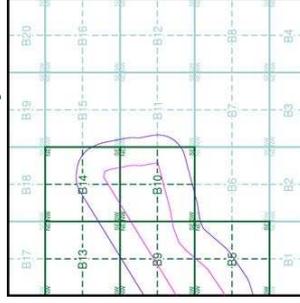
- Specified Site
- Specified Buffer(s)
- Being Reference Point

**Estimated Soil Chemistry Cadmium**

Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice B**



**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 6065300, 293560  
 Site: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

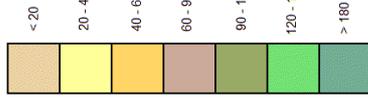


**General**

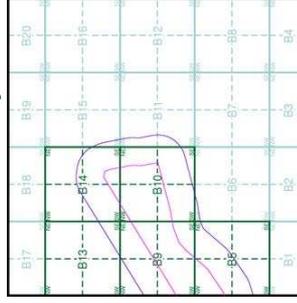
- Specified Site
- Specified Buffer(s)
- Being Reference Point

**Estimated Soil Chemistry Chromium**

Chromium Concentrations mg/kg



**Estimated Soil Chemistry Chromium - Slice B**

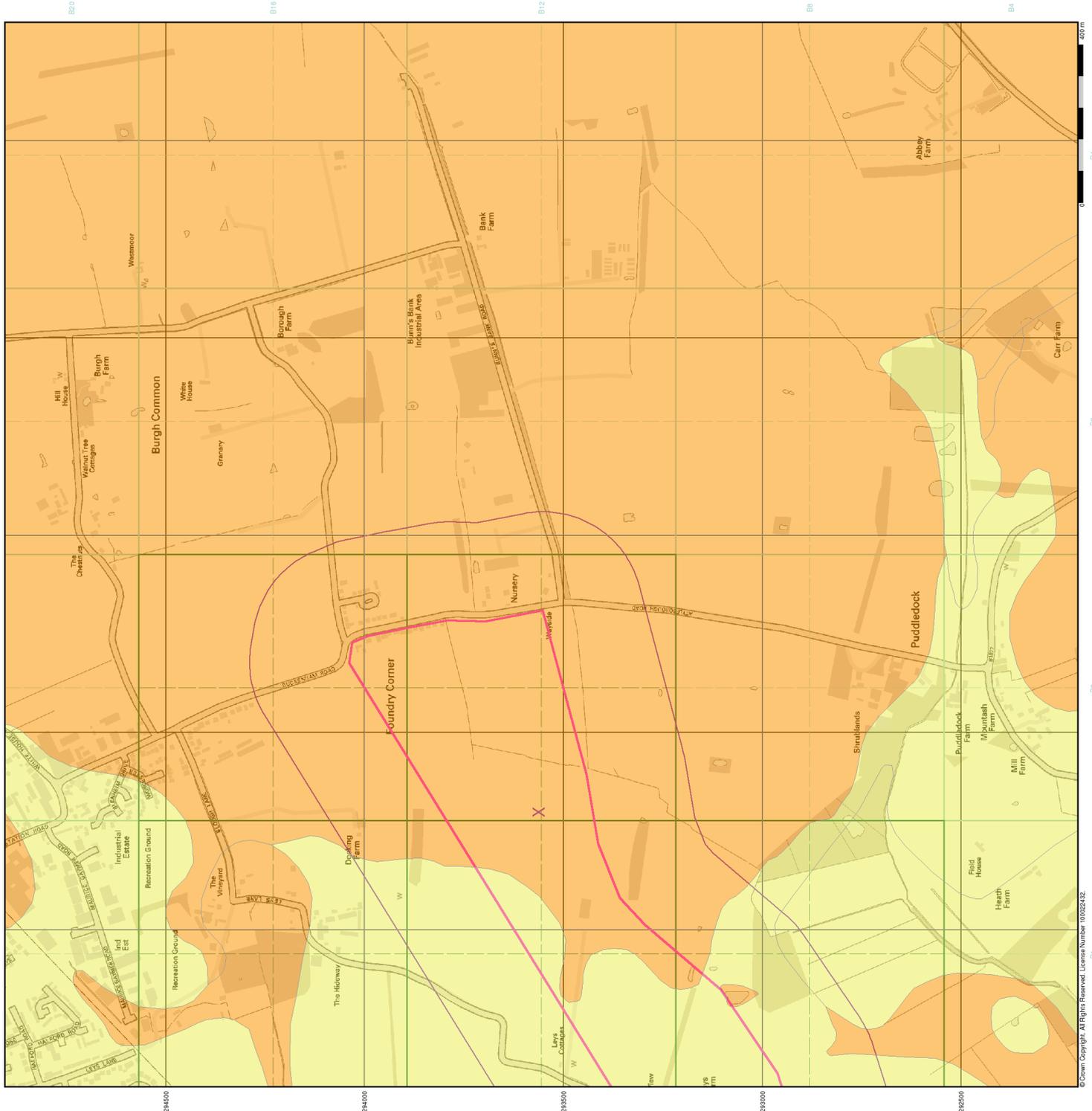


**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Site: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

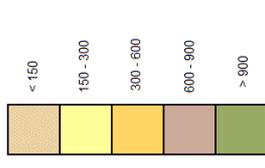


**General**

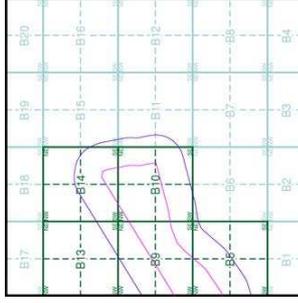
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice B**



**Order Details**

Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Site: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk

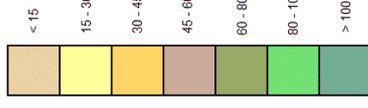


**General**

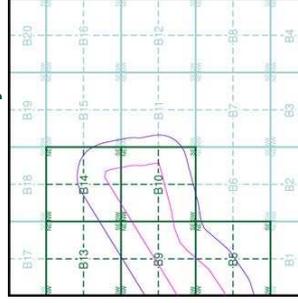
- Specified Site
- Specified Buffer(s)
- Being Reference Point

**Estimated Soil Chemistry Nickel**

Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice B**

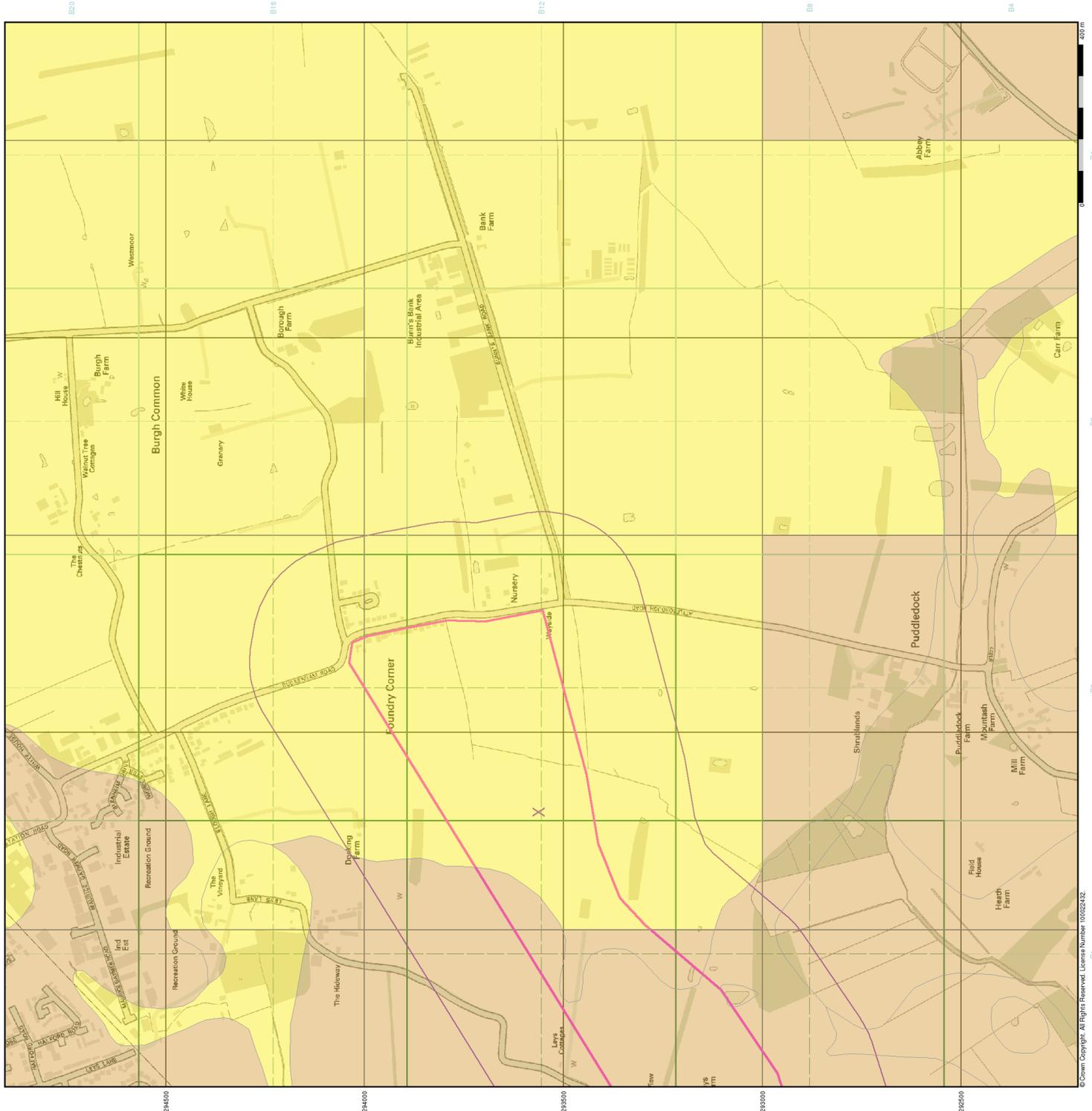


**Order Details**

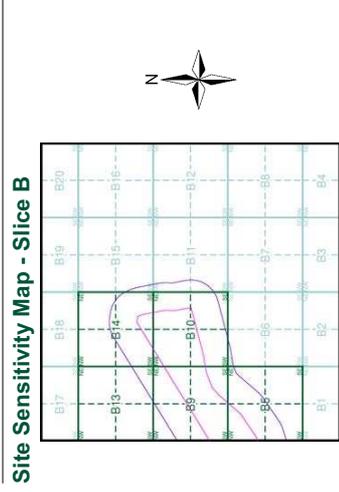
Order Details: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk



- General**
- Specified Site
  - Several of Type at Location
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Controlled Land Register Entry or Notice
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Refused Row)
  - EA Historic Landfill (Refused Row)
  - Integrated Pollution Control Registered Landfill Boundary
  - Licensed Waste Management Facility (Location)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHFS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

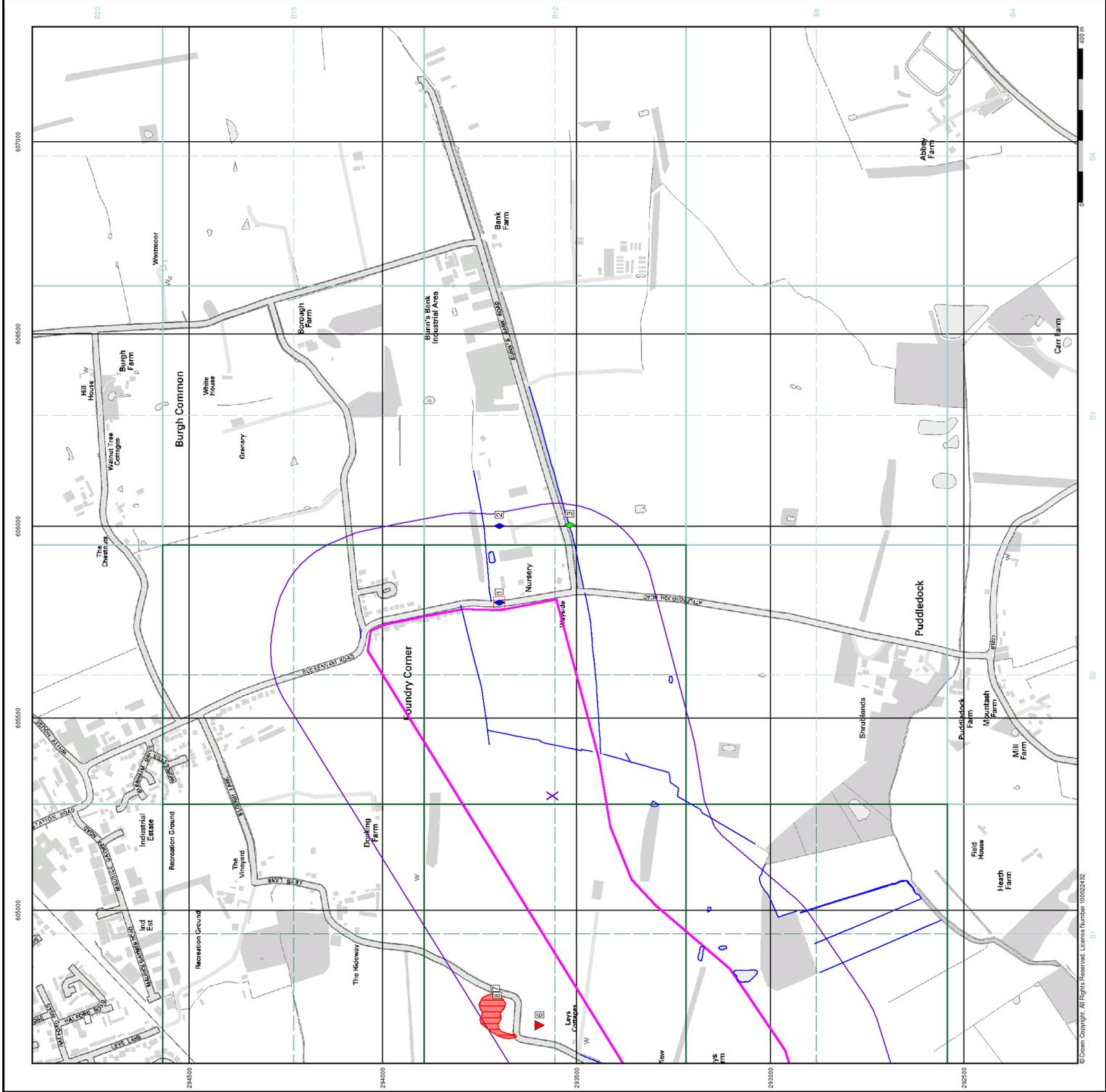


**Order Details**

Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk





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

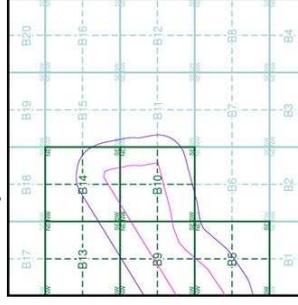
**Agency and Hydrological (Boreholes)**

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

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

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice B**



**Order Details**

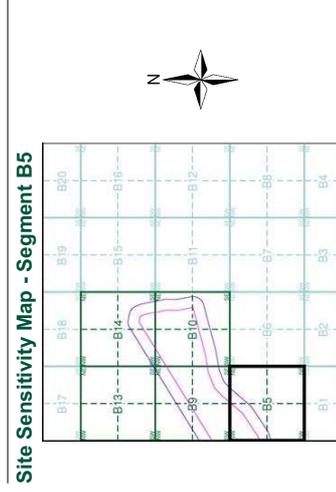
Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36  
 Search Buffer (m): 250

**Site Details**

Site at Attleborough, Norwich, Norfolk



- General**
- Specified Site
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Consented Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enhancement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Landfill Site (Point Bufferred to 10m)
  - Registered Landfill Site (Point Bufferred to 250m)
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site
  - EA Historic Landfill (Refused Row)
  - EA Historic Landfill (Physion)
  - Integrated Pollution Control Registered Landfill (Location)
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Point Bufferred to 10m)
  - Registered Landfill Site (Point Bufferred to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

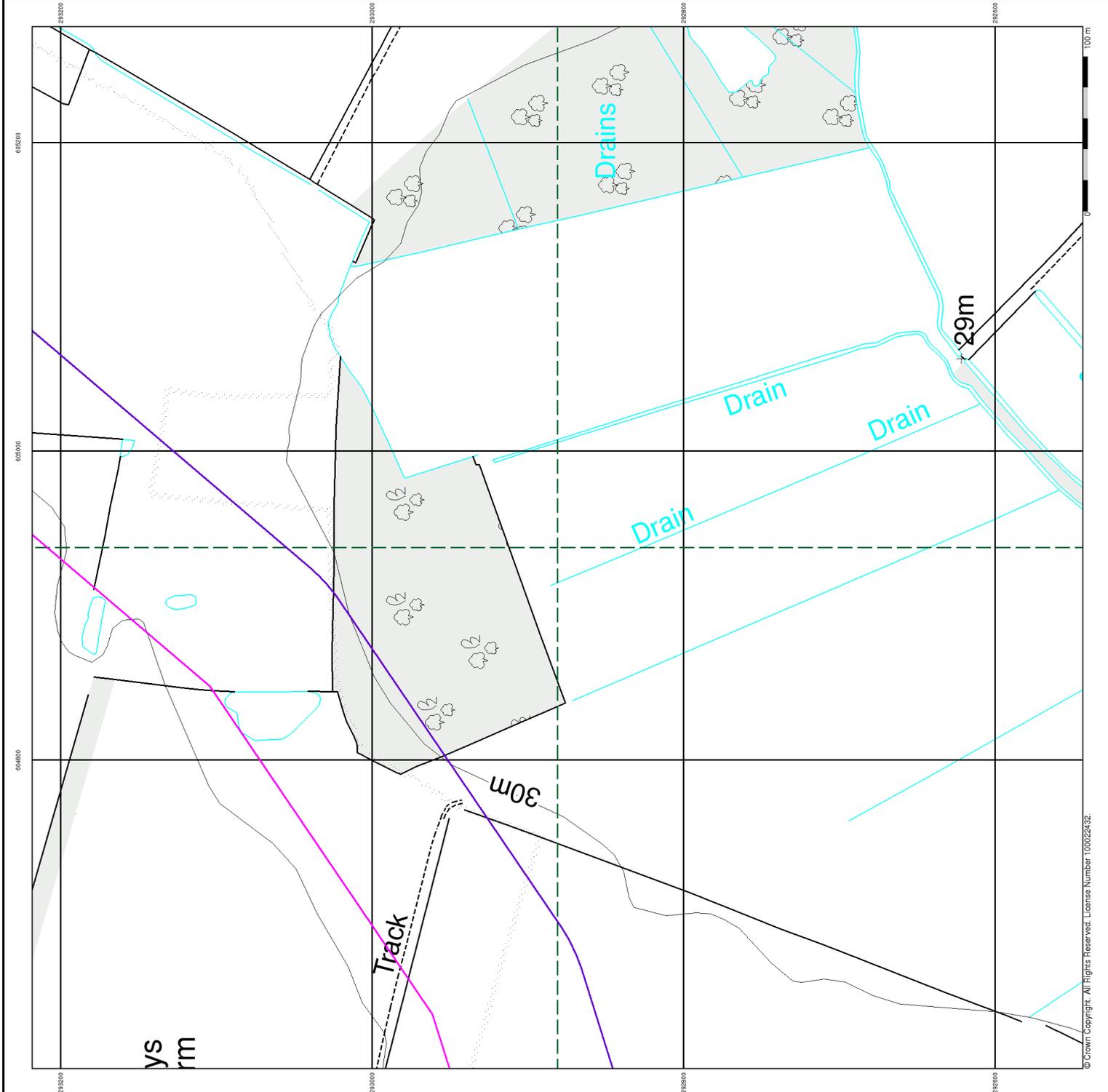


**Order Details**

Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36

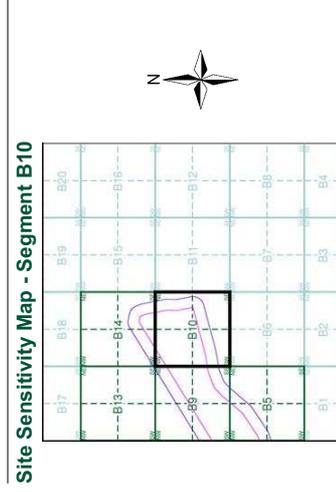
**Site Details**

Site at Attleborough, Norwich, Norfolk





- General**
- Specified Site
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - Contaminated Land Register Entry or Notice
  - EA Historic Landfill (Refined Row)
  - EA Historic Landfill (Rhyon)
  - Integrated Pollution Control Registered (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Point Buffer to 10m)
  - Registered Landfill Site (Point Buffer to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry



**Order Details**

Order Number: 41306037\_1\_1  
 Customer Ref: CG6312-06  
 National Grid Reference: 605300, 293560  
 Slice: B  
 Site Area (Ha): 155.36

**Site Details**

Site at Attleborough, Norwich, Norfolk



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