# Burnham Overy Habitat Creation Scheme, Norfolk

## Geoarchaeological Investigation

**Oxford Archaeology North**

April 2008

**Environment Agency**

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# SUMMARY

Oxford Archaeology North (OA North) was commissioned by the Environment Agency to undertake a geoarchaeological investigation on land adjacent to the River Burn near Burnham Overy, Norfolk (centred NGR TF 837 432). The land is proposed for a habitat creation scheme, with five reedbeds comprising open water areas excavated, and any clay removed used to construct water-retaining banks.

The site covers an area of approximately 1.2km by between 0.2 and 0.6km, and is situated on the floodplain of the River Burn. Due to the site being within an area of high archaeological potential, an assessment of the impact of the proposed development on any archaeological remains was required, prior to the commencement of any construction works.

The main objective of the geoarchaeological investigation was to characterise the sediment sequences and patterns of deposit accumulation across the site in relation to potential land surfaces/buried soils and localised features, such as topographic highs or palaeochannels. In addition, the investigations sought to identify the location and extent of any waterlogged organic deposits, and to clarify the relationship between sediment sequences and other deposit types.

The survey was carried out over a period of fourteen days between 20th November and 7th December 2007, comprising sampling on transects spaced at roughly 25m along the main axes of the proposed reedbeds. The cores were taken with a hand-held Eiijkelkamp screw auger and a 30mm bore hand held Eiijkelkamp gouge auger to a depth of 2m or to the point where the underlying solid geology or glacial tills/boulder clay was reached. Sediment descriptions were carried out in the field. In total, 95 cores were taken.

The core survey revealed a complex sequence of Flandrian sedimentary deposits, which overlaid a gently undulating pre-Flandrian surface of fissured chalk bedrock. A broad characterisation is that the earliest deposits were peats forming in topographic depressions around an early Holocene palaeochannel, with lateral channel migration resulting in these areas developing into fen/mires and backwater marshes. Alluvial and outwash sands partially overlaid these peats and formed the basal deposits in many areas further away from the channel. These sands were sometimes interbedded with clays, and in an area of higher elevation, palaeosols, indicating that there may have been lateral channel migration or tidal influences at points in the site history. The core survey also revealed the presence of buried stone in 2 cores.

It is suggested that the proposed development area contains a palaeochannel with adjacent transitional environments, as well as a dryland ridge or river levee, both of which are location types represented in the corpus of existing archaeological evidence, and the impact of the development could potentially be considerable. In particular, the buried palaeosols in Area 6 have the potential to contain *in-situ* archaeological sites.

 

It is recommended that a programme of further stratigraphic work and modelling of the sediments, coupled with radiocarbon dating and palaeoenvironmental information, will provide a highly detailed picture of environmental change in this area of Burnham Overy in relation to human occupation. In particular, palaeoenvironmental investigation of the palaeosols is recommended. The resulting model should inform where archaeological sites, within a dry land or wetland context, are likely to be situated.

# ACKNOWLEDGEMENTS

OA North would like to thank the Environment Agency for commissioning the report, their assistance during fieldwork, for providing survey data previously carried out at the site, and for providing the digital OS base map. OA North would like to thank Peter Doktor and Philip Catherall of the Environment Agency and, in particular, Roger Beecroft of Wildlife and Countryside Services provided valuable information and guidance.

The auger survey was undertaken by Lucy Verrill and Christina Robinson. Lucy Verrill described the sediments and recorded the lithological data. Christina Robinson recorded the co-ordinates and height of each location with a GIS software package. Lucy Verrill wrote the report. Denice Druce, Carl Champness, Neil Wearing and Mark Tidmarsh, assisted by Joanne Cook, produced the lithological diagrams and created the maps. Pip Hawoth compiled *Appendix 2* and Joanne Levy entered the data into OASIS, the online database of archaeological events. Elizabeth Huckerby managed the project and edited the report.

# 1. INTRODUCTION

## 1.1 CIRCUMSTANCES OF THE PROJECT

1.1.1 Following proposals for the redevelopment of land adjacent to the River Burn near Burnham Overy, Norfolk (centred NGR TF 837 432) for a habitat creation scheme, the Environment Agency requested that Oxford Archaeology North (OA North) submit a project design for a programme of geoarchaeological investigations.

1.1.2 The area of redevelopment covers an area measuring approximately 1.2km by between 0.2 and 0.6km, and is situated on the floodplain of the River Burn (Fig 1). The solid geology is fissured chalk, and there are pockets of overlying drift geology - mainly glacial till and morainic drift, with beds/stringers of outwash sands and gravels. The deposits beside water courses are of river terrace sands and gravels and alluvium, often underlain by peats and windblown sands. Due to the site being within an area of high archaeological potential, the impact of the proposed development on any archaeological remains and organic deposits was required prior to any construction works commencing on site.

1.1.3 The main objectives of the geoarchaological investigation were to characterise the sequence and patterns of accumulation in relation to potential land surfaces/buried soils and localised features such as topographic highs or palaeochannels. The areas targeted for this characterisation are to be the proposed location of the reed beds in areas 1, 3, 5 and 6 (Fig 2). A fifth area (2) of proposed reed bed has been selected but is not illustrated on Figure 2 as access was denied. In addition, the investigations sought to identify the location and extent of any waterlogged organic deposits, and to clarify the relationship between sediment sequences and other deposit types, including periods of 'soil' development, peat growth, and areas with the potential to contain archaeological remains.

1.1.3 The investigations comprised an auger survey carried out between 20th November and 7th December 2007, where cores were taken with hand held screw and gouge augers to a depth of 2m, or until the underlying solid geology or glacial tills/boulder clay was reached. The resulting data was entered into an Excel spreadsheet and incorporated into the Rockworks software, which produced the lithological and stratigraphical diagrams included in the report.

1.1.4 This project was a geoarchaeological investigation and no assessment of the archaeological evidence was made. However the Norfolk Museums & Archaeology Service Collections and the Archaeology Data Service was accessed online and this showed that North Norfolk is known to be rich in archaeological evidence from all periods of human history, with Happisburgh in the east containing some of the earliest evidence of human habitation of the British Isles.

# 2. METHODOLOGY

## 2.1 PROJECT DESIGN

2.1.1 The methodology outlined in the Project Design (*Appendix 1*) was adhered to, although access to Area 2 and a small part of Area 5 was not allowed. The positions of the offset coring transects were supplied electronically as a sketch map of the approximate position of the auger transects to the Environment Agency as an addendum to the Project Design. In addition, the client requested that OA North extend the transects by 25m outside the area of the proposed reedbeds. The presence of standing water in part of Area 3 prevented investigation of one of the planned offset transects in this area. In much of Area 1, the clay was deep and extremely stiff, and impossible to sample below the topsoil with hand-held augers, even when a screw head was utilised.

## 2.2 AUGER SURVEY

2.2.1 The programme of coring was carried out using a hand-held Eiijkelkamp screw auger and a 30mm bore hand-held Eiijkelkamp gouge auger, and each location was probed to a depth of either 3m, or until the underlying solid or drift geology was proved. In total, 95 cores were sampled in transects spaced at roughly 25m along the main axes of the proposed reedbeds in Areas 1, 3, 5 and 6. The cores in each transect were labelled from SE – NW and SW-NE and each one was labelled by its area, transect letter, and by the distance in metres from the start of the transect eg 3B 120. Those cores that were located outside the area of the reedbeds, are designated by + or - 25m (from the last or first coring postion) eg 1B 0-25m.

2.2.2 Each core location, including height, was recorded with a Leica 1200 GPS.

2.2.3 The lithology of each core was described in a field notebook and the resulting data, along with the co-ordinates and heights, was entered into an Excel spreadsheet and incorporated into Rockworks software. Rockworks was then used to produce the lithological sections included in the report. The lithological details of all cores are shown in *Appendix 2*.

## 2.3 ARCHIVE

2.3.1 A full professional archive has been compiled in accordance with the project design (*Appendix 1*), and in accordance with current IFA and English Heritage guidelines (English Heritage 1991). The paper and digital archive will be deposited in the Norfolk County Record Office in Norwich, and a copy of the report will be deposited with Norfolk County Sites and Monuments Records.

2.3.2 The data has been inputted into OASIS, the online database of archaeological events

# 3 BACKGROUND

## 3.1 LOCATION GEOLOGY AND LITHOLOGY

3.1.1 The survey is located on the northern coast of Norfolk. The geology of the area is chalk, which dips from west to east and is buried by glacial deposits in many places. The topography of the area is dominated by the chalk geology, creating a lowlying, flat landscape (Environment Agency, 2005)).

3.1.2 The north Norfolk coastline sediments have been shown to overly a Quaternary trough, probably a palaeo-river valley. The lithofacies associations, are separated by erosion surfaces, which record movement of the tidal channels and of shoreface processes in response to sea-level rise in the early Holocene (Andrews *et al* 2000). The earliest Holocene sediments are peats formed on undulating till, forming from 11,000-10,000 cal. BP to 7 cal. BP in many places. In response to rising sea-levels, marine mudflat and saltmarsh environments began to form at 6 cal. BP or younger west of Holkham (*ibid*).

3.1.3 Holocene transgressive and regressive events causing saltmash migration appear to be small-scale and localised in nature, suggesting the cause is autocyclic rather than allocyclic in the north Norfolk area, related to the disposition of coastal defences (Andrews *et al* 2000).

# 4. CORING RESULTS

## 4.1 RESULTS

4.1.1 In total, 95 core locations were taken and cored to a maximum depth of 2m, however in some instances no retrieval was possible. The core locations discussed are shown in Figure 2 and the borehole logs in *Appendix 2*. and there is an explanation of their labelling in Section 2.2.1. Although depths of 2m, with the base not reached, were attained in some locations in the majority of cores either the proximity of bedrock to the surface or the strength or consolidation of underlying deposits dictated the depth of coring. There were 34 boreholes, in total, where the base was at a depth greater than 2m (1B 0 - 25m; 1B 0m; 3A 0m; 3A 25m; 3A 50m; 3A 75m; 3A 100m; 3A 120m; 3A 120 + 25m; 3B 120m; 3B 120 + 25m; 3C 0 – 30m; 3C 25m; 3C 50m; 5F 0 - 25m; 5F 25m; 5A 100m; 5A 125m; 5A 50m; 5A 162m; 5D 50m; 5D 75m; 5D 100m; 5D 125m; 5B 0m; 5B 25m; 5B 155m; 5H 25m; 5C 50m; 5C 75m; 5C 100m; 5C 125m; 6A 0m; 6A 25m; 6A 50m; 6B 30m). Much of Area 1 was covered by near-surface dense, firm clay, which was difficult to penetrate with the hand-held auger. Similarly, loose, unconsolidated wet sands are difficult to penetrate and retain in an auger, even when a variety of auger heads designed for different sediments are used.

4.1.2 Area 1 is not considered in any detail in the report as there was no significant borehole data and are not-included on the Figures 3-8. Also, the stiff clay, which covered most of the area made coring impossible except in a few core locations and, therefore, no further information regarding sediment depth and stratigraphy was forthcoming. The following discussion and interpretation concentrates on areas 3, 5 and 6, which are considered together (Fig 3). The bedrock plot (Fig 4) must be interpreted with caution as most logs did not confirm bedrock depth. However the available data show an area of high ground separating two low-lying areas. The high ground forms a ridge roughly oriented north-west/south-east, with the highest part aligned along Transect 6A (Cores 6A)**.** The depression to the west of this high ground (which shows two major low-lying foci) appears to represent a palaeochannel running north-west/south-east, was most likely a former channel of the River Burn. As the channel migrated, the low-lying area comprising Transects 5H (Cores 5H) and the western end of 5C (Cores 5C), developed into a backwater marsh or fen/mire. The smaller depression to the east of the high ground represents a topographic hollow, which filled with fen/mire and clay deposits. The ridge of high ground separating the two low-lying areas consists of sandy sediments and may represent a river levee between the two areas.

4.1.3 The present ground surface topography is shown in Figure 5. Whilst the area of high bedrock along Transect 6A is also a surface topographic high, the considerable accumulation of peat in the depression seen in Transects 5C and 5B (Cores 5B) and 5H, interpreted as a fen/mire, has made this area relatively elevated also (Fig 6). The bedrock depressions around Area 3 and Transect 5G

(Cores 5G) do not contain such a depth of peat and therefore remain relatively low-lying.

4.1.4 The lowest depth for the peat surface (see *Appendix 2*) and the thickest peat deposits (Fig 6) are located in the west of the study area, within the north-western part of Area 5. This peat is interpreted as accumulating in a fen/mire. As would perhaps be expected, some peat accumulation is noted from the edges of the palaeochannel, e.g. the north-western end of Transect 3B and many cores in Transects 5B and 5C.

4.1.5 The laminated fluvial sands are largely confined to the edge of palaeochannel area represented by Transect 5G and in Area 3 (Fig 7). As the sands tend to be interbedded with clay and peat deposits they may represent a tidal influence to the channel, or braiding or complex channel migration. In Area 6 the ridge of high ground separating the two low-lying areas consists of sandy sediments and may represent a river levee between the two areas.

4.1.6 There are some accumulations of organic alluvium (organic clays and sands), limited to the edge of the channel in Area 6 and low-lying areas (Boreholes 5C 75, 5G 20). These accumulations represent shallow water conditions in transitional environments.

4.1.7 Palaeosols are limited to Area 6 (Transects 6A and 6B Cores 6B; Fig 8). In most instances, a layer of palaeosol between 0.3 – 0.6m thickness was present below the upper topsoil and clay deposits, overlying the laminated sand, clay and organic sediments. One location, 6A 25m (see *Appendix 2*), had a more complex stratigraphic sequence, with at least two distinct palaeosols. The development of a soil in this area is probably linked to the reduced influence of the river channel and the lower water table afforded by the relatively elevated topography, resulting in less frequent or severe waterlogging. The palaeosols may have been truncated by clay inundation and, therefore, their former extent may have been wider over the area of high ground. With this in mind, it is possible that these buried soils hold the potential for containing dry land archaeological sites on the ridge/ possible levee running between the two depressions. Archaeologically, the identification of these palaeosols is highly significant.

4.1.8 A layer of stone was recorded immediately under the surface at two core locations in Area 5 (5F 0m NGR 583807 343059 and 5D 25m NGR 583702 343154). These two locations, which are not shown on the figures, lie in the southern part of Area 5. Archaeologically, the presence of stone may be significant but could equally be of recent origin having been laid as hardcore in an area of wet ground.

# 5. DISCUSSION, IMPACT AND RECOMMENDATIONS

## 5.1 THE CORE SURVEY

5.1.1 The core survey revealed a complex sequence of Flandrian sedimentary deposits, which overlaid a gently undulating pre-Flandrian surface of fissured chalk bedrock. The lowermost Flandrian sediments were not reached in every borehole and varied according to location. A broad characterisation is that the earliest deposits were peats forming in topographic depressions around an early Holocene palaeochannel, with lateral channel migration resulting in these areas developing into fen/mires and backwater marshes. Alluvial and outwash sands partially overlaid these peats and formed the basal deposits in many areas further away from the channel. These sands were sometimes interbedded with clays, and in an area of higher elevation, palaeosols, indicating that there may have been lateral channel migration or tidal influences at points in the site history.

5.1.2 The identification of stone in the southern part of Area 5 may indicate the presence of a buried archaeological feature, although alternatively the stone may be of recent origin.

## 5.2 IMPACT

5.2.1 Whilst no archaeological finds have been documented within the study area, artefacts from Neolithic to post-medieval times have been found nearby, including the Roman fort and settlement at Branchester (TF7844), one of the Saxon Shore Forts (Salway, 1981, Bidwell, 1997). These sites and findspots were located in dryland contexts and were adjacent to creeks and watercourses. The area is not particularly rich in archaeological resources; however, as chance discovery or fieldwalking has found many of the sites, it is possible that the existing evidence under-represents the total of sites as a whole. The proposed development area contains a palaeochannel with adjacent transitional environments, as well as a dryland ridge or river levee, both of which are location types represented in the corpus of existing evidence, and the impact of the proposed development on these could potentially be considerable. In particular, the buried palaeosols in Area 6, located as they are on a possible levee, have the potential to contain *in-situ* archaeological sites.

## 5.3 RECOMMENDATIONS

5.3.1 Although the sediment maps and lithological sections produced here are extremely useful as an aid to locating the palaeochannel, fen/mire and buried land surfaces, and to the interpretation of the deposits in the survey area, further stratigraphic work is recommended. Ideally, it would be extremely useful to completely map the various deposit types down to bedrock within the survey area, which would ultimately provide a comprehensive model of the depth and extent of the broad sediment types. This would provide specific information, for example, on the extent and depth of the intercalated sand and

clay, the peat, the alluvial sands and gravels. It is anticipated that further modelling, coupled with radiocarbon dating and palaeoenvironmental information, will provide a highly detailed picture of environmental change in this area of Burnham Overy in relation to human occupation. In particular, palaeoenvironmental investigation of the palaeosols is recommended. The resulting model should inform where archaeological sites, within a dry land or wetland context, are likely to be situated.

5.3.2 It is recommended that a series of evaluation trenches are excavated in Area 6 through the buried soils in Transects 6A and 6B to identify any possible archaeological sites.

5.3.3 It is also recommended that a series of evaluation trenches be excavated in the southern part of Area 5 to identify the significance of the buried stone recorded in Cores 5F 0m and 5D 25m. Before these trenches are cut, it is recommended that the local farmer be interviewed, in case there is a simple explanation for their presence in this part of Area 5.

# 6 BIBIOGRAPHY

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OS 1:10,000 Raster Map TF84SW

## 6.2 SECONDARY SOURCES

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# 7. ILLUSTRATIONS

## 7.1 LIST OF FIGURES

# APPENDIX 1: PROJECT DESIGN

## 1. INTRODUCTION

### 1.1 PROJECT BACKGROUND

1.1.1 The Environment Agency (hereafter the 'client'), has requested that Oxford Archaeology North (OA North) submit proposals for a geoarchaeological investigation. The site concerns land adjacent to the River Burn, nr Burnham Overy, Norfolk (centred NGR TF 837 432), which is proposed for a habitat creation scheme. Five reedbeds comprising open water areas will be excavated and any clay removed will be used to make water-retaining banks. The methods for their construction are outlined in Beecroft, and Green (2007). Due to the site being within an area of high archaeological potential, an assessment of the the impact of the proposed development on any archaeological remains is required prior to any construction works commencing on site.

1.1.2 Burnham Overy was a trading port until the end of the Middle Ages when the river Burn silted up. The proposed habitat creation scheme also lies close to a former friary. The geoarchaeological survey may locate former dryland surfaces or features associated with both the friary and the trading port.

1.1.3 ***Location, and Topography***: the site is situated on the floodplain of the River Burn along the west bank, nr Burnham Overy, Norfolk (centred NGR TF 837 432). It covers an area of approximately 1.25 km by 0.70 km.

### 1.2 QUALITY ASSURANCE

1.2.1 Oxford Archaeology (OA) is a Registered Archaeological Organisation with the **Institute of Field Archaeologists (no 17)**. OA is not at present ISO certified but operates an internal QA system governed by standards and guidelines outlined by English Heritage and the Institute of Field Archaeologists.

1.2.2 ***Standards:*** it is OA's stated policy to adhere to current professional standards set by IFA, English Heritage, Association of Local Government Archaeological Officers, Museums Organisations. OA helps the profession to develop and establish standards by serving on national working parties (eg recently on archives), and conforms with current legislation and national and local policy standards for archaeology health and safety and other relevant matters.

1.2.3 OA has established technical manuals, procedures and policies which control its work covering field recording, finds retention and discard, finds storage and handling, environmental sampling and processing, archiving and post-excavation. These have been developed to conform with best professional practice.

1.2.4 ***Staff:*** OA ensures that its staff are fairly recruited, fairly employed, and properly qualified for their work whether by formal qualification or by established and verifiable experience. OA have established terms and conditions of employment and a system of staff representation to ensure regular consultation on employment matters.

1.2.5 ***Procurement of services and materials:*** OA procures subcontracted work on the basis of value for money, considering quality, track record and service, as well as cost. OA regularly reviews quality of subcontracted work and uses tendering procedures for major sub-contracts.

1.2.6 Procurement of materials is on the basis of quality and availability, as well as cost, especially in respect of long-term storage of archives (OA adheres to archive quality photographic materials and processes, archive quality boxes etc).

1.2.7 ***Working Practices:*** management procedures ensure that all work conducted within the Company and all end product reports to clients are monitored and evaluated whilst they are in progress, during compilation, and after completion.

1.2.8 ***Data Acquisition and Security:*** for fieldwork projects OA always removes records and finds from site every day, and ensures equipment is secured.

 

# 2 OBJECTIVES

2.1 The investigation aims to:

- Characterise the sequence and patterns of accumulation in the areas of the reedbed pools, the depth and lateral extent of major stratigraphic units, and the character of any potential land surfaces/buried soils within or pre-dating these sediments;
- Identify significant variations in the deposit sequence indicative of localised features such as topographic highs, or palaeochannels;
- Identify the location and extent of any waterlogged organic deposits and where appropriate and practical retrieve suitable samples in order to assess the potential for the preservation of environmental remains and material for scientific dating;
- Clarify the relationship between sediment sequences and other deposit types, including periods of 'soil', peat growth, and archaeological remains;
- To make available the results of the investigation.

# 3 METHOD STATEMENT

## 3.1 INTRODUCTION

3.1.1 The following work programme is submitted in line with the objectives summarised above.

## 3.2 AUGER SURVEY

3.2.1 An augur survey will be undertaken which will comprise two offset NW-SE core transects in a grid at 25 metre intervals in each of the five designated pool areas.

3.2.2 Each location will be recorded in three dimensions either with a GPS or total station.

3.2.3 The equipment will comprise a standard hand operated soil auger. A selection of different auger heads will be employed in order to deal with the variety of sediment types that may be encountered (Bucket, Gouge, and Screw auger)

3.2.4 Each location will be augered to a depth of 2.0m or until the underlying glacial tills/boulder clay have been proven, which ever is reached first and providing no obstructions are encountered.

3.2.5 The profile will be recorded on a summary *pro-forma* sheet and significant layers identified. relative depths will be noted and a description of the deposits using standard quaternary (Late Devensian and Holocene) terminology (colour texture, compaction and inclusions). This will follow the English Heritage Geoarchaology Guidelines.

3.2.6 If any significant deposits are identified 2m cores will be taken with a hand operated Russian-type peat corer or by a terrier rig (windowless samples) for environmental assessment. This assessment would further characterise the deposits and would therefore enhance the interpretation of the results. The costs for this potential auguring will be supplied if required.

3.2.7 ***Environmental assessment:*** if recommended, the deposits may be sampled and assessed for their potential for palaeoenvironmental analysis. It may be necessary for OA North's environmental manager to visit the site to discuss the sampling strategy, depending on the deposits, and request advice from English Heritage's Regional Science Advisor.

3.2.8 An assessment of the environmental potential of the site may be undertaken through the examination of suitable deposits by the in-house environmental archaeologists, who will examine the potential for further analysis. This would be undertaken in accordance with English Heritage Guidelines (2002).

3.2.9 The cores may be assessed for pollen and plant macrofossils. In addition, the samples may be assessed for diatoms, foraminifera, insect, and molluscs. It may also consider the potential for the dating of suitable deposits and requirements for any AMS and OSL dating and samples may be submitted to

Dr Gordon Cook of the Scottish Universities Environmental Centre for AMS dating.

3.2.10 The project will be carried out by a suitably qualified OA North environmental archaeologist, under the overall direction of **Alan Lupton, Operations Manager, OA North.**

3.2.11 The site archive will include both a photographic record and maps showing the locations of the cores.

3.2.12 ***Contingency plan:*** a contingency costing may also be employed for unseen delays caused by prolonged periods of bad weather, vandalism, discovery of unforeseen complex deposits and which require specialist advice. This has been included in the Costings document and would be charged in agreement with the client.

3.2.13 ***Access:*** liaison for basic site access will be undertaken through the client and it is understood that there will be access for both pedestrian and plant traffic to the site.

### 3.3 REPORT AND ARCHIVE

3.3.1 ***Report:*** three bound copies of a written synthetic report will be submitted to the client together with one on a CD in a single pdf file. The report will include:

- a site location plan related to the national grid;
- a front cover to include the NGR;
- the dates on which the fieldwork was undertaken;
- a concise, non-technical summary of the results;
- an explanation to any agreed variations to the brief, including any justification for any analyses not undertaken;
- a description of the methodology employed, work undertaken and results obtained;
- an historical and archaeological background;
- plans and sections at an appropriate scale showing the location and position of deposits and finds located;
- a list of and dates for any finds recovered and a description and interpretation of the deposits identified. This artefact analysis will include illustration of finds crucial to dating and interpretation;
- a description of any environmental or other specialist work undertaken and the results obtained;

- a copy of this project design and indications of any agreed departure from the details;

- the report will also include a complete bibliography of sources from which data has been derived.

3.3.2 ***Confidentiality:*** all internal reports to the client are designed as documents for the specific use of the client, for the particular purpose as defined in the project brief and project design, and should be treated as such. They are not suitable for publication as academic documents or otherwise without amendment or revision.

3.3.3 ***Archive:*** the results of all archaeological work carried out will form the basis for a full archive to professional standards, in accordance with current English Heritage guidelines (*Management of Archaeological Projects*, 2nd edition, 1991). The project archive will include summary processing and analysis of all features, finds, or palaeoenvironmental data recovered during fieldwork, which will be catalogued by context.

3.3.4 The deposition of a properly ordered and indexed project archive in an appropriate repository is essential and archive will be provided in the English Heritage Centre for Archaeology format and a synthesis will be submitted to the Norfolk SMR (the index to the archive and a copy of the report). OA North practice is to deposit the original record archive of projects with the appropriate Record Office.

3.3.5 ***OASIS***: the data will be entered into OASIS records, the online database of archaeological events.

# HEALTH AND SAFETY

4.1 OA North provides a Health and Safety Statement for all projects and maintains a Unit Safety policy. All site procedures are in accordance with the guidance set out in the Health and Safety Manual compiled by the Standing Conference of Archaeological Unit Managers (1997). A written risk assessment will be undertaken in advance of project commencement and copies will be made available on request to all interested parties.

4.2 Full regard will, of course, be given to all constraints (services etc) during the evaluation as well as to all Health and Safety considerations. As a matter of course the Unit uses a U-Scan device prior to any excavation to test for services, however, this is **only an approximate location tool**. Any drawings or knowledge of live cables or services that may pose a risk to OA North staff during evaluation **must be made known to the project manager** of OA North before site work. This will ensure the risk is dealt with appropriately.

4.3 A portable toilet with hand washing facilities will be provided and located on or adjacent to the site.

4.4 Any known contamination issues or any specific health and safety requirements on site should be made known to OA North by the client or main contractor on site to ensure all procedures can be met.

4.5 Should areas of previously unknown contamination be encountered on site the works will be halted and a revision of the risk assessment carried out. Should it be necessary to supply additional PPE or other contamination avoidance equipment this will be costed as a variation.

# 5 OTHER MATTERS

## 5.1 WORK TIMETABLE

5.1.1 ***Auger Survey:*** approximately thirteen days will be required to undertake the fieldwork for this element.

5.1.2 ***Report:*** the report and archive will be produced following the completion of all the fieldwork and environmental assessment. it is hoped that an interim report will be available on December 1st 2007 and the final report on December 31st 2007, and the archive deposited within six months.

5.1.3 ***Scheduling:*** OA North would require a formal written agreement and will be able to commence the work on October 22nd 2007.

## 5.2 INSURANCE

5.2.1 OA North has a professional indemnity cover to a value of £2,000,000; proof of which can be supplied as required.

 

# 6. STAFFING

6.1 The project will be under the direct management of **Dr Alan Lupton** (OA Operations Manager) to whom all correspondence should be addressed.

6.2 The fieldwork will be undertaken by an OA North environmental archaeologist experienced in this type of project. Due to scheduling requirements it is not possible to provide these details at the present time. All OA North environmental archaeologists are experienced in auger surveys

6.3 Assessment of any palaeoenvironmental samples, if required will be undertaken by or under the auspices of **Elizabeth Huckerby BA MSc** (OA North environmental manager). Elizabeth has extensive knowledge of the palaeoecology of many sites in the British Isles.

 

# REFERENCES

Beecroft, R and Green, A, 2007, *Reedbed creation at Burnham Design, work and bill of quantities*, unpubl client report for AC, RC, and PC Green for Halcrow Group Ltd and the Environment Agency

English Heritage, 1991 *Management of Archaeological Projects*, second edition, London

English Heritage, 2002 *Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation*,

English Heritage, 2004 *Geoarchaeology: using Earth Sciences to understand the archaeological record*, London

SCAUM (Standing Conference of Archaeological Unit Managers), 1997 *Health and Safety Manual*, Poole

UKIC, 1990 *Guidelines for the Preparation of Archives for Long-Term Storage*, London

UKIC, 1998 *First Aid for Finds*, London

***NB***

*Following current IFA guidelines it is recommended that a contingency sum equivalent to 15% of the total sum for the fieldwork costs is put aside for unseen delays caused by prolonged periods of bad weather, vandalism, discovery of unforeseen complex deposits and/or artefacts which require specialist removal, use of shoring to excavate important features close to the excavation sections etc. This sum would only be used following agreement with the client.*

Normal OA North working hours are between 9am and 5pm, Monday to Friday, though adjustments to hours maybe made to maximise daylight working time in winter and to meet travel requirements. It is not normal practise for OA North staff to be asked to work weekends or bank holidays and should the client require such time to be worked during the course of a project a contract variation to cover additional costs will be necessary.

Notes:

1. COMMERCIAL IN CONFIDENCE

2. Salaries and wages inclusive of NI, Superannuation and overheads

3. Total costs exclusive of VAT

4. All costs at 2007/2008 prices

# APPENDIX 2: CORING LOGS

## Burnham Overy Geoarchaeological borehole logs

| **Borehole No.** 1A 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583486.0900 | | | **GL ELEV (mOD)** 1.8957 | |
| **Northing** 343608.7839 | | | **Total depth (m)** 1.75 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.42 | Topsoil | | |
| 0.42 | 1.4 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.4<br>1.75 | 1.75 | Clay | Merging | Black, soft and pliable<br>Impenetrable – base unknown |

| **Borehole No.** 1A 0 | | | | |
|---|---|---|---|---|
| **Easting** 583485.4873 | | | **GL ELEV (mOD)** 2.3770 | |
| **Northing** 343633.7484 | | | **Total depth (m)** 1.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.75 | Sandy clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.75 | 1.0 | Clay | Diffuse | Mottled brown/grey, firm and compact, rare silt |
| 1.0 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 25 | | | | |
|---|---|---|---|---|
| **Easting** 583484.0077 | | | **GL ELEV (mOD)** 2.1914 | |
| **Northing** 343658.1743 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.17 | Topsoil | | |
| 0.17 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 50 (1B 25) | | | | |
|---|---|---|---|---|
| **Easting** 583481.5482 | | | **GL ELEV (mOD)** 2.2823 | |
| **Northing** 583481.5482 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.22 | Topsoil | | |
| 0.22 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable – base unknown |

| **Site code** 1A 75 | | | | |
|---|---|---|---|---|
| **Easting** 583479.7964 | | | **GL ELEV (mOD)** 2.2838 | |
| **Northing** 343708.6083 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.29 | Topsoil | | |
| 0.29 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 100 (1C 25) | | | | |
|---|---|---|---|---|
| **Easting** 583477.1597 | | | **GL ELEV (mOD)** 2.7316 | |
| **Northing** 343733.4167 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.47 | Topsoil | | |
| 0.47 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 125 | | | | |
|---|---|---|---|---|
| **Easting** 583476.1358 | | | **GL ELEV (mOD)** 2.5026 | |
| **Northing** 343758.5085 | | | **Total depth (m )**0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.45 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.45 | 0.5 | Sandy clay | Diffuse | Mid-brown, some iron mineralization |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 150 | | | | |
|---|---|---|---|---|
| **Easting** 583473.5099 | | | **GL ELEV (mOD)** 2.3316 | |
| **Northing** 343783.4437 | | | **Total depth (m)** 0.45 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.15 | Topsoil | | |
| 0.15 | 0.3 | Topsoil/clay | Diffuse | Mixed topsoil/clay |
| 0.3 | 0.45 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.45 | | | | Impenetrable – base unknown |

| **Borehole No** 1A 175 | | | | |
|---|---|---|---|---|
| **Easting** 583471.9418 | | | **GL ELEV (mOD)** 2.2528 | |
| **Northing** 343808.3247 | | | **Total depth (m)** 0.45 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.12 | Topsoil | | |
| 0.12 | 0.28 | Topsoil/clay | Diffuse | Mixed topsoil/clay |
| 0.28 | 0.45 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.45 | | | | Impenetrable – base unknown |

| **Borehole No.** 1A 190 | | | | |
|---|---|---|---|---|
| **Easting** 583471.2410 | | | **GL ELEV (mOD)** 2.4182 | |
| **Northing** 343823.3452 | | | **Total depth (m)** 0.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.4 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.4 | | | | Impenetrable - base unknown |

| **Borehole No** 1A 190 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583468.4279 | | | **GL ELEV (mOD)** 2.0650 | |
| **Northing** 343848.0436 | | | **Total depth (m)** 0.4 | |
| **Depth (m)** | | **Sediment types** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.18 | Topsoil | | |
| 0.18 | 0.4 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.4 | | | | Impenetrable - base unknown |

| **Borehole No** 1B 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583433.2108 | | | **GL ELEV (mOD)** 2.0502 | |
| **Northing** 343668.9030 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment types** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.1 | Topsoil | | |
| 0.1 | 0.22 | Topsoil/clay | Diffuse | Mixed topsoil and clay |
| 0.22 | 1.2 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.2 | 2.0 | Clay | Clear | Black, soft and pliable |

| **Borehole No** 1B 0 | | | | |
|---|---|---|---|---|
| **Easting** 583457.6043 | | | **GL ELEV (mOD)** 2.1111 | |
| **Northing** 343676.1328 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.26 | Topsoil | | |
| 0.26 | 1.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.6 | 2.0 | Lost | | |

| **Borehole No** 1B 50 | | | | |
|---|---|---|---|---|
| **Easting** 583505.9363 | | | **GL ELEV (mOD)** 2.4600 | |
| **Northing** 343688.7549 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.5 | Topsoil | | |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No** 1B 50 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583530.0523 | | | **GL ELEV (mOD)** 3.2263 | |
| **Northing** 343694.0456 | | | **Total depth (m)** 0.3 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Sand | | Mid-brown, compact |
| 0.3 | | | | Impenetrable – base unknown |

| **Borehole No** 1C 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583428.2197 | | | **GL ELEV (mOD)** 2.3005 | |
| **Northing** 343724.6592 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.22 | Topsoil | | |
| 0.22 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable - base unknown |

| **Borehole No** 1C 0 | | | | |
|---|---|---|---|---|
| **Easting** 583452.7073 | | | **GL ELEV (mOD)** 2.4115 | |
| **Northing** 343730.2183 | | | **Total depth (m)** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.15 | Topsoil | | |
| 0.15 | 0.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.5 | | | | Impenetrable - base unknown |

| **Borehole No** 1C 50 | | | | |
|---|---|---|---|---|
| **Easting** 583500.1687 | | | **GL ELEV (mOD)** 2.6085 | |
| **Northing** 343743.1561 | | | **Total depth (m) 0** | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | | | | Impenetrable – depth unknown |

| **Borehole No** 1C 50 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583522.5484 | | | **GL ELEV (mOD)** 3.4397 | |
| **Northing** 343752.6781 | | | **Total depth** 0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | | | | Impenetrable – depth unknown |

| **Borehole No** 3A 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583832.7768 | | | **GL ELVE (mOD)** 2.6405 | |
| **Northing** 343286.8679 | | | **Total depth** 0.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.5 | Topsoil | | Brick inclusions – dyke construction material |
| 0.5 | | | | Impenetrable – base unknown |

| **Borehole No** 3A 0 | | | | |
|---|---|---|---|---|
| **Easting** 583815.0188 | | | **GL ELEV (mOD)** 2.4183 | |
| **Northing** 343304.6516 | | | **Total depth didn't have depth** | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.31 | Topsoil | | |
| 0.31 | 0.38 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.38 | 0.4 | Sandy clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.4 | 1.0 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.0 | 1.08 | Organic clay | Diffuse | Occasional detrital plant fragments |
| 1.08 | 1.9 | Clay | Diffuse | Soft grey clay, rare silt, occasional organic fragments |

| **Borehole No** 3A 25 | | | | |
|---|---|---|---|---|
| **Easting** 583796.9657 | | | **GL ELEV (mOD)** 2.6032 | |
| **Northing** 343322.5404 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.27 | Topsoil | | |
| 0.27 | 1.05 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.05 | 2.0 | Sandy clay | Diffuse | Mottled brown/grey, firm and compact |

| **Borehole No** 3A 50 | | | | |
|---|---|---|---|---|
| **Easting** 583778.0425 | | | **GL ELEV (mOD)** 2.0186 | |
| **Northing** 343337.8411 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.29 | Topsoil | | |
| 0.29 | 1.68 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.68 | 1.89 | Silty clay | Diffuse | Grey compact |
| 1.89 | 2.0 | Sandy clay | Diffuse | Dark brown compact |

| **Borehole No** 3A 75 | | | | |
|---|---|---|---|---|
| **Easting** 583758.0947 | | | **GL ELEV (mOD)** 2.0687 | |
| **Northing** 343353.0377 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.23 | Topsoil | | |
| 0.23 | 0.3 | Topsoil/clay | Diffuse | Mixed topsoil / clay |
| 0.3 | 1.0 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.0 | 1.8 | Sandy clay | Merging | Mottled brown/grey, firm and compact |
| 1.8 | 2.0 | Clayey sand | Merging | Grey/brown, firm & compact |

| **Borehole No** 3A 100 | | | | |
|---|---|---|---|---|
| **Easting** 583737.9288 | | | **GL ELEV (mOD)** 2.3082 | |
| **Northing** 343367.7599 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.34 | Topsoil | | |
| 0.34 | 1.0 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.0 | 1.1 | Clay | Diffuse | Grey, soft & pliable |
| 1.1 | 1.63 | Silty clay | Diffuse | Dark grey/brown. Sand band at 135cm |
| 1.63 | 1.67 | Sand | Clear | Mid-brown, compact |
| 1.67 | 1.69 | Silty clay | Clear | Dark grey/brown |
| 1.69 | 1.71 | Sand | Clear | Mid-brown, compact |
| 1.71 | 1.9 | Sandy clay | Clear | Dark brown, compact |

| **Borehole No** 3A 120 | | | | |
|---|---|---|---|---|
| **Easting** 583721.0106 | | | **GL ELEV (mOD)** 2.3258 | |
| **Northing** 343377.8867 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 1.35 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.35 | 1.6 | Silty clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.6 | 1.65 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.65 | 1.85 | Sandy clay | Diffuse | Dark grey/brown, firm and compact |
| 1.85 | 1.9 | Sand | Diffuse | Dark grey/brown, firm and compact |

| **Borehole No** 3A 120 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583699.4011 | | | **GL ELEV (mOD)** 2.4044 | |
| **Northing** 343390.7968 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.24 | Topsoil | | |
| 0.24 | 0.33 | Topsoil/clay | Merging | Mixed topsoil / clay |
| 0.33 | 1.5 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.5 | 1.62 | Silty clay | Diffuse | Grey, firm & compact |
| 1.62 | 1.8 | Sandy clay | Diffuse | Dark brown, firm & compact |

| **Borehole No** 3B 0 | | | | |
|---|---|---|---|---|
| **Easting** 583791.5901 | | | **GL ELEV (mOD)** 2.4884 | |
| **Northing** 343249.1178 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.21 | Topsoil | | |
| 0.21 | 1.15 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.15 | 1.9 | Clay | Clear | Black, soft & pliable |
| 1.9 | | | | Hit base |

| **Borehole No** 3B 25 | | | | |
|---|---|---|---|---|
| **Easting** 583771.5351 | | | **GL ELEV (mOD)** 2.1829 | |
| **Northing** 343264.0810 | | | **Total depth (m)** 1.05 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.21 | Topsoil | | |
| 0.21 | 0.67 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.67 | 0.74 | Silty clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.74 | 0.93 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.93 | 1.05 | Sandy clay | Clear | Dark brown, firm and compact |
| 1.05 | | | | Hit base |

| **Borehole No.** 3B 50 | | | | |
|---|---|---|---|---|
| **Easting** 583750.4771 | | | **GL ELEV (mOD)** 2.1678 | |
| **Northing** 343278.0461 | | | **Total depth (m)** 1.2 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.97 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.97 | 1.2 | Peat | Abrupt | Orange/brown, moderately humified. Increasing silt content to base |
| 1.2 | | | | Hit base |

| **Borehole No.** 3B 75 | | | | |
|---|---|---|---|---|
| **Easting** 583729.4135 | | | **GL ELEV (mOD)** 2.1165 | |
| **Northing** 343291.9432 | | | **Total depth (m)** 1.47 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.97 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.97 | 1.2 | Clay-silt | Merging | Brown, organic, firm |
| 1.2 | 1.47 | Peat | Abrupt | Orange/brown, moderately humified. |
| 1.47 | | | | Hit base |

| **Borehole No.** 3B 100 | | | | |
|---|---|---|---|---|
| **Easting** 583709.2231 | | | **GL ELEV (mOD)** 2.1065 | |
| **Northing** 343307.0176 | | | **Total depth (m)** 1.85 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.95 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.95 | 1.85 | Peat | Abrupt | Orange/brown, moderately humified. Rare silt |
| 1.85 | | | | Hit base |

| **Borehole No.** 3B 120 | | | | |
|---|---|---|---|---|
| **Easting** 583693.5969 | | | **GL ELEV (mOD)** 2.1210 | |
| **Northing** 343318.5046 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.33 | Topsoil | | |
| 0.33 | 0.97 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.97 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified. Rare silt |

| **Borehole No.** 3B 120 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583671.1282 | | | **GL ELEV (mOD)** 1.9991 | |
| **Northing** 343328.2155 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 1.1 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.1 | 1.85 | Peat | Abrupt | Orange/brown, moderately humified. |
| 1.85 | | | | Lost |

| **Borehole No** 3C 0 -30 | | | | |
|---|---|---|---|---|
| **Easting** 583746.1728 | | | **GL ELEV (mOD)** 2.1720 | |
| **Northing** 343245.7881 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.92 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.92 | 1.4 | Peat | Abrupt | Orange/brown, moderately humified. Rare silt |
| 1.4 | 1.42 | Clay | Abrupt | Dark grey, firm and compact |
| 1.42 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified. |

| **Borehole No** 3C 0 | | | | |
|---|---|---|---|---|
| **Easting** 583764.0075 | | | **GL ELEV (mOD)** 2.1261 | |
| **Northing** 343269.7484 | | | **Total depth (m)** 1.1 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.95 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.95 | 1.1 | Peat with sand | Abrupt | Orange/brown, moderately humified. Common sand |
| 1.1 | | | | Hit base |

| **Borehole No.** 3C 25 | | | | |
|---|---|---|---|---|
| **Easting** 583780.7804 | | | **GL ELEV (mOD)** 2.1437 | |
| **Northing** 343288.8714 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 0.96 | Silty clay | Diffuse | Dark grey/brown |
| 0.96 | 1.04 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.04 | 1.1 | Peat | Abrupt | Orange/brown, moderately humified. |
| 1.1 | 1.16 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.16 | 1.7 | Peat | Abrupt | Orange/brown, moderately humified. |
| 1.7 | 1.9 | Peat with clay | Diffuse | Orange/brown, moderately humified, with grey clay. |

| **Borehole No.** 3C 50 | | | | |
|---|---|---|---|---|
| **Easting** 583799.0552 | | | **GL ELEV (mOD)** 2.2713 | |
| **Northing** 343305.6368 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.29 | Topsoil | | |
| 0.29 | 1.0 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.0 | 1.65 | Silty peat | Abrupt | Orange/brown, moderately humified. Common silt |
| 1.65 | 2.0 | Sand | Abrupt | Brown/grey, compact |

| **Borehole No** 5F 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583797.0787 | | | **GL ELEV (mOD)** 2.7802 | |
| **Northing** 343036.8055 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.8 | Peat | Clear | Orange/brown, moderately humified. |
| 0.8 | 1.3 | Clayey peat | Merging | Orange/brown, moderately humified with grey clay patches. |
| 1.3 | 1.75 | Clay | Clear | Mottled brown/grey, firm and compact |
| 1.75 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified. |

| **Borehole No** 5F 0 | | | | |
|---|---|---|---|---|
| **Easting** 583807.7513 | | | **GL ELEV (mOD)** 3.7207 | |
| **Northing** 343059.3507 | | | **Total depth (m)** 0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | | Stone | | Stone just under surface |

| **Borehole No** 5F 25 | | | | |
|---|---|---|---|---|
| **Easting** 583815.8945 | | | **GL ELEV (mOD)** 2.9384 | |
| **Northing** 343083.0713 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 1.15 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.15 | 1.6 | Sandy clay | Merging | Mottled brown/grey, firm and compact |
| 1.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No.** 5F 45 | | | | |
|---|---|---|---|---|
| **Easting** 583823.5123 | | | **GL ELEV (mOD)** 2.5302 | |
| **Northing** 343104.2272 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 1.1 | Clay | Merging | Mottled brown/grey, firm and compact, waterlogged |
| 1.1 | 1.7 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.7 | | | | Hit base |

| **Borehole No** 5A 25 | | | | |
|---|---|---|---|---|
| **Easting** 583714.0445 | | | **GL ELEV (mOD)** 2.4742 | |
| **Northing** 343124.8136 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.6 | Topsoil | | |
| 0.6 | 0.85 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.85 | 1.0 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.0 | 1.3 | Clay` | Abrupt | Mottled brown/grey, firm and compact |
| 1.3 | 1.8 | Peat with sand | Abrupt | Orange/brown, moderately humified, common sand |

| **Borehole No** 5A 50 | | | | |
|---|---|---|---|---|
| **Easting** 583737.5207 | | | **GL ELEV (mOD)** 2.4248 | |
| **Northing** 343117.0708 | | | **Total depth (m)** 1.2 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.4 | Topsoil | | |
| 0.4 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 1.0 | Silty peat | Abrupt | Orange/brown, moderately humified, common silt |
| 1.0 | 1.2 | Sandy peat | Diffuse | Orange/brown, moderately humified, common sand |
| 1.2 | | | | Lost |

| **Borehole No** 5A 75 | | | | |
|---|---|---|---|---|
| **Easting** 583761.7139 | | | **GL ELEV (mOD)** 2.4161 | |
| **Northing** 343110.3340 | | | **Total depth (m)** 1.65 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.65 | Topsoil | | Chalk fragments |
| 0.65 | 1.2 | Clay with chalk | Merging | Mottled brown/grey, firm and compact |
| 1.2 | 1.6 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 1.6 | 1.65 | Chalky sand | Clear | Brown/grey, compact |
| 1.65 | | | | Hit base |

| **Borehole No** 5A 100 | | | | |
|---|---|---|---|---|
| **Easting** 583785.9651 | | | **GL ELEV (mOD)** 1.7029 | |
| **Northing** 343103.5280 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.51 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.51 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5A 125 | | | | |
|---|---|---|---|---|
| **Easting** 583809.8381 | | | **GL ELEV (mOD)** 2.4952 | |
| **Northing** 343096.2619 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.4 | Topsoil | | |
| 0.4 | 0.6 | Silty clay | Merging | Mottled brown/grey, firm and compact, common silt |
| 0.6 | 0.85 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.85 | 0.88 | Peat | Abrupt | Orange/brown, moderately humified |
| 0.88 | 0.9 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 0.9 | 1.28 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.28 | 1.43 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.43 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5A 150 | | | | |
|---|---|---|---|---|
| **Easting** 583833.9320 | | | **GL ELEV (mOD)** 2.5052 | |
| **Northing** 343089.4564 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.6 | Topsoil | | |
| 0.6 | 1.2 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.2 | 1.43 | Clay with sand | Merging | Mottled brown/grey, firm and compact, common fine sand |
| 1.43 | 1.67 | Peat with clay | Clear | Orange/brown, moderately humified, patchy grey clay |
| 1.67 | 1.72 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.72 | 1.75 | Peat with clay | Clear | Orange/brown, moderately humified, patchy grey clay |
| 1.75 | 2.0 | Peat | Clear | Orange/brown, moderately humified |

| **Borehole No** 5A 162 | | | | |
|---|---|---|---|---|
| **Easting** 583845.1896 | | | **GL ELEV (mOD)** 2.5083 | |
| **Northing** 343085.9593 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.6 | Topsoil | | |
| 0.6 | 1.3 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.3 | 1.7 | Silty clay | Diffuse | Mottled brown/grey, firm and compact, common silt |
| 1.7 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5D 25 | | | | |
|---|---|---|---|---|
| **Easting** 583702.2611 | | | **GL ELEV (mOD)** 2.5979 | |
| **Northing** 343109.3667 | | | **Total depth (m)** 0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | | | | Stone just under surface |

| **Borehole No** 5D 50 | | | | |
|---|---|---|---|---|
| **Easting** 583713.4291 | | | **GL ELEV (mOD)** 2.4849 | |
| **Northing** 343132.4979 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 1.1 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.1 | 1.2 | Silty peat | Abrupt | Orange/brown, moderately humified, common silt |
| 1.2 | 1.5 | Peat | Diffuse | Orange/brown, moderately humified |
| 1.5 | 1.67 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.67 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5D 75 | | | | |
|---|---|---|---|---|
| **Easting** 583724.5398 | | | **GL ELEV (mOD) n/a** | |
| **Northing** 343154.9211 | | | **Total depth (m) 2** | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.4 | Topsoil | | Gravelly |
| 0.4 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact, common chalk fragments |
| 0.8 | 1.0 | Clay | Clear | Grey, soft and pliable |
| 1.0 | 1.2 | Clay | Clear | Mottled brown/grey, firm and compact, common sand |
| 1.2 | 1.85 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.85 | 1.0 | | | Lost |

| **Borehole No** 5D 100 | | | | |
|---|---|---|---|---|
| **Easting** 583734.9264 | | | **GL ELEV (mOD)** 2.3545 | |
| **Northing** 343177.7667 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.9 | 1.93 | Wood | Abrupt | Unhumified wood fragment |
| 1.93 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No.** 5D 125 | | | | |
|---|---|---|---|---|
| **Easting** 583746.2373 | | | **GL ELEV (mOD)** 1.9021 | |
| **Northing** 343199.9121 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.5 | Topsoil | | |
| 0.5 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5D 140 | | | | |
|---|---|---|---|---|
| **Easting** 583752.8175 | | | **GL ELEV (mOD)** 1.9456 | |
| **Northing** 343212.8477 | | | **Total depth (m) >2** | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No.** 5B 0 -25 | | | | |
|---|---|---|---|---|
| **Easting** 583669.7310 | | | **GL ELEV (mOD)** 2.4525 | |
| **Northing** 343179.3695 | | | **Total depth (m)** 1.45 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.12 | Topsoil | | |
| 0.12 | 0.35 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.35 | 1.45 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.45 | | | | Hit base |

| **Borehole No.** 5B 0 | | | | |
|---|---|---|---|---|
| **Easting** 583693.6722 | | | **GL ELEV (mOD)** 2.5209 | |
| **Northing** 343173.5259 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.15 | Topsoil | | |
| 0.15 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5B 25 | | | | |
|---|---|---|---|---|
| **Easting** 583718.6514 | | | **GL ELEV (mOD)** 2.5161 | |
| **Northing** 343167.2700 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.33 | Topsoil | | |
| 0.33 | 0.9 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.9 | 1.2 | Clay | Clear | Grey, soft and pliable |
| 1.2 | 1.9 | Clay | Clear | Mottled brown/grey, firm and compact, common silt |
| 1.9 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole No** 5B 50 | | | | |
|---|---|---|---|---|
| **Easting** 583743.4446 | | | **GL ELEV (mOD)** 2.6368 | |
| **Northing** 343161.2749 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.45 | Topsoil | | |
| 0.45 | 1.15 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.15 | 1.16 | Sand/wood | Abrupt | Brown/grey with wood fragments |
| 1.16 | 1.3 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.3 | 1.4 | Clayey sand | Merging | Brown/grey, compact and firm |
| 1.4 | 1.45 | Sand | Merging | Brown/grey, compact |
| 1.45<br><br>1.8 | 1.8 | Peat with silt | Abrupt | Orange/brown, moderately humified, common silt<br>Hit base |

| **Borehole No** 5B 75 | | | | |
|---|---|---|---|---|
| **Easting** 583768.3655 | | | **GL ELEV (mOD)** 2.5384 | |
| **Northing** 343155.6386 | | | **Total depth (m)** 1.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.75 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.75 | 1.4 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.4 | | | | Hit base |

| **Borehole no** 5B 100 | | | | |
|---|---|---|---|---|
| **Easting** 583792.3002 | | | **GL ELEV (mOD)** 2.5353 | |
| **Northing** 343149.6720 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.75 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.75 | 1.8 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.8 | | | | Hit base |

| **Borehole no** 5B 125 | | | | |
|---|---|---|---|---|
| **Easting** 583816.3394 | | | **GL ELEV (mOD)** 2.5995 | |
| **Northing** 343143.8324 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.45 | Topsoil | | |
| 0.45 | 0.9 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.9 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.9 | | | | Hit base |

| **Borehole no** 5B 155 | | | | |
|---|---|---|---|---|
| **Easting** 583845.3391 | | | **GL ELEV (mOD)** 2.3773 | |
| **Northing** 343136.5581 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole no** 5B 155 +25 | | | | |
|---|---|---|---|---|
| **Easting** 583870.0024 | | | **GL ELEV (mOD)** 2.4271 | |
| **Northing** 343132.4307 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.65 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.65 | 1.8 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.8 | | | | Hit base |

| **Borehole no** 5H 0 | | | | |
|---|---|---|---|---|
| **Easting** 583667.6827 | | | **GL ELEV (mOD)** 2.4257 | |
| **Northing** 343183.7051 | | | **Total depth (m)** 1.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.55 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.55 | 1.3 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.3 | 1.4 | Sandy peat | Diffuse | Orange/brown, moderately humified, common sand |
| 1.4 | | | | Hit base |

| **Borehole no** 5H 25 | | | | |
|---|---|---|---|---|
| **Easting** 583676.2778 | | | **GL ELEV (mOD)** 2.4797 | |
| **Northing** 343207.4236 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole no** 5H 50 | | | | |
|---|---|---|---|---|
| **Easting** 583684.0636 | | | **GL ELEV (mOD)** 2.4938 | |
| **Northing** 343231.5790 | | | **Total depth (m)** 1.9 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.67 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.67 | 1.07 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.07 | 1.1 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.1<br>1.9 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified<br>Hit base |

| **Borehole no** 5H 65 | | | | |
|---|---|---|---|---|
| **Easting** 583688.5013 | | | **GL ELEV (mOD)** 2.3836 | |
| **Northing** 343246.0320 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.7 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.7 | 1.7 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.7 | | | | Hit base |

| **Borehole no** 5C 0 | | | | |
|---|---|---|---|---|
| **Easting** 583671.9565 | | | **GL ELEV (mOD)** 2.3563 | |
| **Northing** 343233.7864 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 1.7 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.7 | | | | Hit base |

| **Borehole no** 5C 25 | | | | |
|---|---|---|---|---|
| **Easting** 583696.7015 | | | **GL ELEV (mOD)** 2.4026 | |
| **Northing** 343228.1854 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.7 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.7 | 1.7 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.7 | | | | Hit base |

| **Borehole no** 5C 50 | | | | |
|---|---|---|---|---|
| **Easting** 583718.5150 | | | **GL ELEV (mOD)** 2.4119 | |
| **Northing** 343216.8684 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.32 | Topsoil | | |
| 0.32 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole no** 5C 75 | | | | |
|---|---|---|---|---|
| **Easting** 583739.6376 | | | **GL ELEV (mOD)** 2.5789 | |
| **Northing** 343203.3200 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.45 | Topsoil | | |
| 0.45 | 1.2 | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.2 | 2.0 | Organic clay | Diffuse | Dark grey organic clay |

| **Borehole no** 5C 100 | | | | |
|---|---|---|---|---|
| **Easting** 583763.8062 | | | **GL ELEV (mOD)** 2.3159 | |
| **Northing** 343196.3999 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.7 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.7 | 1.9 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.9 | 2.0 | Silty peat | Diffuse | Orange/brown, moderately humified, common silt |

| **Borehole no** 5C 125 | | | | |
|---|---|---|---|---|
| **Easting** 583787.9125 | | | **GL ELEV (mOD)** 2.2561 | |
| **Northing** 343188.6606 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.43 | Topsoil | | |
| 0.43 | 0.83 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.83 | 2.0 | Peat | Abrupt | Orange/brown, moderately humified |

| **Borehole no** 5C 150 | | | | |
|---|---|---|---|---|
| **Easting** 583811.9475 | | | **GL ELEV (mOD)** 2.1085 | |
| **Northing** 343180.8143 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.65 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.65 | 1.5 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.5 | 1.7 | Lost | | Hit base |

| **Borehole no** 5C 175 | | | | |
|---|---|---|---|---|
| **Easting** 583834.8194 | | | **GL ELEV (mOD)** 2.2136 | |
| **Northing** 343172.5406 | | | **Total depth (m)** 1.55 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.75 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.75 | 1.55 | Peat | Abrupt | Orange/brown, moderately humified |
| 1.55 | | | | Hit base |

| **Borehole no** 5C 200 | | | | |
|---|---|---|---|---|
| **Easting** 583858.2855 | | | **GL ELEV (mOD)** 2.1125 | |
| **Northing** 343164.1380 | | | **Total depth (m)** 1.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 0.75 | Peat | Abrupt | Orange/brown, moderately humified |
| 0.75 | 0.8 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 0.8<br>1.4 | 1.4 | Peat | Abrupt | Orange/brown, moderately humified<br>Hit base |

| **Borehole no** 5C 230 | | | | |
|---|---|---|---|---|
| **Easting** 583886.8859 | | | **GL ELEV (mOD)** 2.1529 | |
| **Northing** 343154.5234 | | | **Total depth (m)** 1.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.65 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.65 | 0.85 | Peat | Abrupt | Orange/brown, moderately humified |
| 0.85 | 1.0 | Clay | Abrupt | Grey, soft and pliable |
| 1.0<br>1.4 | 1.4 | Peat | Abrupt | Orange/brown, moderately humified<br>Hit base |

| **Borehole no** 5G 0 | | | | |
|---|---|---|---|---|
| **Easting** 583833.1203 | | | **GL ELEV (mOD)** 2.1556 | |
| **Northing** 343200.2034 | | | **Total depth (m)** 1.7 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 1.3 | Silty peat | Abrupt | Orange/brown, moderately humified, common silt |
| 1.3 | 1.5 | Sandy peat | Diffuse | Orange/brown, moderately humified, common sand |
| 1.5 | 1.7 | Lost | | Hit base |

| **Borehole no** 5G 20 | | | | |
|---|---|---|---|---|
| **Easting** 583831.8781 | | | **GL ELEV (mOD)** 2.1451 | |
| **Northing** 343220.4677 | | | **Total depth (m)** 1.4 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 0.95 | Sandy clay | Diffuse | Mottled brown/grey, firm and compact. High organic content |
| 0.95 | 1.3 | Silty peat | Abrupt | Orange/brown, moderately humified, common silt |
| 1.3<br><br>1.4 | 1.4 | Sandy peat | Diffuse | Orange/brown, moderately humified, common sand<br>Hit base |

| **Borehole no** 5G 40 | | | | |
|---|---|---|---|---|
| **Easting** 583830.7824 | | | **GL ELEV (mOD)** 2.3028 | |
| **Northing** 343240.7865 | | | **Total depth (m)** 1.5 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.9 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.9 | 1.1 | Silty clay | Diffuse | Mottled brown/grey, firm and compact. High organic content |
| 1.1 | 1.5 | Sand / gravel | Abrupt | Grey/brown, loose |
| 1.5 | | | | Hit base |

| **Borehole no** 6A 0 | | | | |
|---|---|---|---|---|
| **Easting** 583906.6260 | | | **GL ELEV (mOD)** 2.5905 | |
| **Northing** 343268.6674 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | | Topsoil | | |
| 0.3 | | Clay | Merging | Mottled brown/grey, firm and compact |
| 1.08 | | Soil | Merging | Organic sandy clay, rare flint |
| 1.4 | | Clay | Clear | Grey, soft and pliable |
| 1.85 | | Sandy clay | Clear | Mid brown, firm and compact |
| 1.9 | | Sand | Abrupt | Grey/brown, compact |

| **Borehole no** 6A 25 | | | | |
|---|---|---|---|---|
| **Easting** 583919.6735 | | | **GL ELEV (mOD)** 2.4577 | |
| **Northing** 343247.9919 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.23 | Topsoil | | |
| 0.23 | 0.27 | Topsoil/Clay | Diffuse | Topsoil and clay mixed |
| 0.27 | 0.75 | Clay | Diffuse | Mottled brown/grey, firm and compact |
| 0.75 | 0.85 | Sand | Abrupt | Grey/beige, compact |
| 0.85 | 0.9 | Organic clay | Abrupt | Dark brown |
| 0.9 | 1.1 | Clay | Diffuse | Black, soft and pliable |
| 1.1 | 1.65 | Soil | Clear | Organic sandy clay, rare flint |
| 1.65 | 1.75 | Sand | Abrupt | Grey, loose |
| 1.75 | 2.0 | Soil | Abrupt | Organic sandy clay, rare flint |

| **Borehole no** 6A 50 | | | | |
|---|---|---|---|---|
| **Easting** 583936.9952 | | | **GL ELEV (mOD)** 2.6609 | |
| **Northing** 343229.5923 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.35 | Topsoil | | |
| 0.35 | 0.85 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.85 | 0.95 | Sandy clay | Merging | Dark grey/brown, common sand |
| 0.95 | 1.22 | Soil | Merging | Organic sandy clay, rare flint |
| 1.22 | 1.35 | Lost | | |
| 1.35 | 1.8 | Clayey peat | Unknown | Mid-brown, moderately humified, patches of grey clay |
| 1.8 | 1.9 | Peat | Clear | Dark brown, moderately humified |
| 1.9 | 2.0 | Lost | | |

| **Borehole no** 6A 75 | | | | |
|---|---|---|---|---|
| **Easting** 583949.3266 | | | **GL ELEV (mOD)** 2.4446 | |
| **Northing** 343205.0511 | | | **Total depth (m)** 1.6 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.67 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.67 | 1.05 | Soil | Clear | Organic sandy clay, rare flint |
| 1.05 | 1.2 | Organic clay | Merging | Grey, compact |
| 1.2 | 1.3 | Organic sand | Clear | Dark brown, compact |
| 1.3 | 1.35 | Sand | Clear | Grey, loose |
| 1.35 | 1.6 | Lost | | |

| **Borehole no** 6A 100 | | | | |
|---|---|---|---|---|
| **Easting** 583962.0566 | | | **GL ELEV (mOD)** 2.5783 | |
| **Northing** 343183.1067 | | | **Total depth (m)** 1.1 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.26 | Topsoil | | |
| 0.26 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 1.05 | Soil | Merging | Organic sandy clay, rare flint |
| 1.05 | 1.1 | Clay | Merging | Black, soft and pliable |
| 1.1 | | | | Hit base |

| **Borehole no** 6A 125 | | | | |
|---|---|---|---|---|
| **Easting** 583973.9143 | | | **GL ELEV (mOD)** 2.5001 | |
| **Northing** 343160.7676 | | | **Total depth (m)** 0.95 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.23 | Topsoil | | |
| 0.23 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 0.75 | Sandy clay | Merging | Brown, common sand |
| 0.75 | 0.85 | Clayey sand | Diffuse | Dark brown, compact |
| 0.85 | 0.95 | Lost | | Hit base |

| **Borehole no** 6A 160 | | | | |
|---|---|---|---|---|
| **Easting** 583988.9279 | | | **GL ELEV (mOD)** 2.5629 | |
| **Northing** 343129.2983 | | | **Total depth (m)** 1.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.19 | Topsoil | | |
| 0.19 | 0.4 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.4 | 0.5 | Sandy clay | Merging | Mottled brown/grey, firm and compact, common sand |
| 0.5 | 0.6 | Sand | Clear | Grey/brown, compact |
| 0.6<br>0.65<br>1.0 | 0.65<br>1.0 | Clay<br>Sand | Abrupt<br>Abrupt | Mottled brown/grey, firm and compact<br>Grey/brown, compact<br>Hit base |

| **Borehole no** 6B 0 | | | | |
|---|---|---|---|---|
| **Easting** 583932.8241 | | | **GL ELEV (mOD)** 2.5107 | |
| **Northing** 343228.9507 | | | **Total depth (m)** 1.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.21 | Topsoil | | |
| 0.21 | 0.4 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.4 | 0.5 | Sandy clay | Diffuse | Mottled brown/grey, firm and compact, common sand |
| 0.5 | 0.6 | Sand | Diffuse | Grey/brown, compact |
| 0.6<br>0.65<br>1.0 | 0.65<br>1.0 | Clay<br>Sand | Abrupt<br>Abrupt | Mottled brown/grey, firm and compact<br>Grey/brown, compact<br>Hit base |

| **Borehole no** 6B 30 | | | | |
|---|---|---|---|---|
| **Easting** 583960.5736 | | | **GL ELEV (mOD)** 2.2437 | |
| **Northing** 343241.7501 | | | **Total depth (m)** 2.0 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.17 | Topsoil | | |
| 0.17 | 0.65 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.65 | 1.25 | Soil | Clear | Organic sandy clay, rare flint |
| 1.25 | 1.6 | Clayey peat | Merging | Brown, moderately humified, grey clay patches |
| 1.6 | 1.9 | Peat | Merging | Dark brown, moderately humified |
| 1.9 | 2.0 | Peat | Clear | Black, crumbly, well humified, common sand |

| **Borehole no** 6B 30 +25 | |
|---|---|
| **Easting** 583981.8818 | **GL ELEV (mOD)** 2.2958 |

| **Northing** 343254.1518 | | | **Total depth (m)** 1.9 | |
|---|---|---|---|---|
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.2 | Topsoil | | |
| 0.2 | 0.7 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.7 | 1.0 | Soil | Clear | Organic sandy clay, rare flint |
| 1.0 | 1.35 | Peat | Clear | Dark brown, moderately humified |
| 1,35 | 1.4 | Clay | Abrupt | Mottled brown/grey, firm and compact |
| 1.4 | 1.8 | Sandy peat | Abrupt | Dark brown, moderately humified, common sand |
| 1.8 | 1.9 | Peat | Clear | Black, well humified and crumbly |
| 1.9 | | | | Hit base |

| **Borehole no** 6C 0 | | | | |
|---|---|---|---|---|
| **Easting** 583987.4310 | | | **GL ELEV (mOD)** 2.5265 | |
| **Northing** 343149.3810 | | | **Total depth (m)** 1.15 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.22 | Topsoil | | |
| 0.22 | 0.6 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.6 | 1.1 | Sandy peat | Clear | Dark brown, moderately humified, common sand |
| 1.1 | 1.15 | Clayey sand | Clear | Grey/brown, compact |
| 1.15 | | | | Hit base |

| **Borehole no** 6C 25 | | | | |
|---|---|---|---|---|
| **Easting** 584006.1506 | | | **GL ELEV (mOD)** 2.3880 | |
| **Northing** 343165.3169 | | | **Total depth (m)** 1.85 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.3 | Topsoil | | |
| 0.3 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 1.05 | Sandy peat | Abrupt | Dark brown, moderately humified, common sand |
| 1.05 | 1.35 | Clay | Abrupt | Grey, soft and pliable |
| 1.35 | 1.45 | Sand | Abrupt | Mid-brown, compact |
| 1.45 | 1.5 | Sand | Diffuse | Dark brown, organic, compact |
| 1.5 | 1.8 | Sand | Diffuse | Mid-brown, compact |
| 1.8 | 1.85 | Sand | Diffuse | Dark brown, organic, compact |
| 1.85 | | | | Hit base |

| **Borehole no** 6C 50 | | | | |
|---|---|---|---|---|
| **Easting** 584023.1010 | | | **GL ELEV (mOD)** 2.3841 | |
| **Northing** 343183.7728 | | | **Total depth (m)** 1.8 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.22 | Topsoil | | |
| 0.22 | 0.8 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.8 | 1.35 | Sandy clay | Merging | Dark brown, inorganic |
| 1.35 | 1.8 | Sand | Clear | Grey, very compact |
| 1.8 | | | | Solid sand - impenetrable |

| **Borehole no** 6C 50 +25 | | | | |
|---|---|---|---|---|
| **Easting** 584039.0759 | | | **GL ELEV (mOD)** 2.4353 | |
| **Northing** 343202.6170 | | | **Total depth (m)** 1.1 | |
| **Depth (m)** | | **Sediment type** | **Upper contact** | **Description** |
| **From** | **To** | | | |
| 0 | 0.25 | Topsoil | | |
| 0.25 | 0.75 | Clay | Merging | Mottled brown/grey, firm and compact |
| 0.75 | 1.1 | Sandy peat | Clear | Dark brown, moderately humified with common sand |
| 1.1 | | | | Hit base |

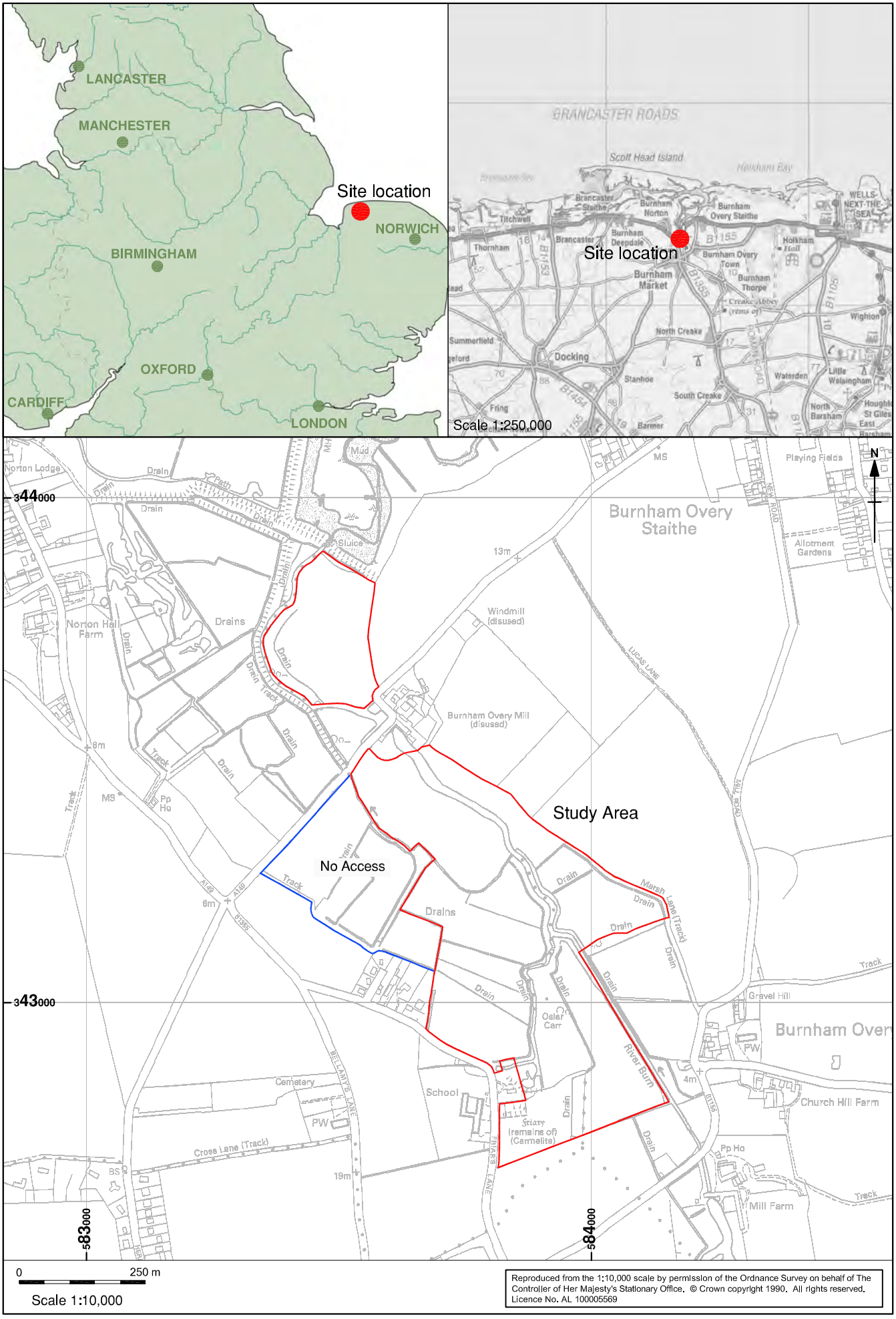


Figure 1: Site Location

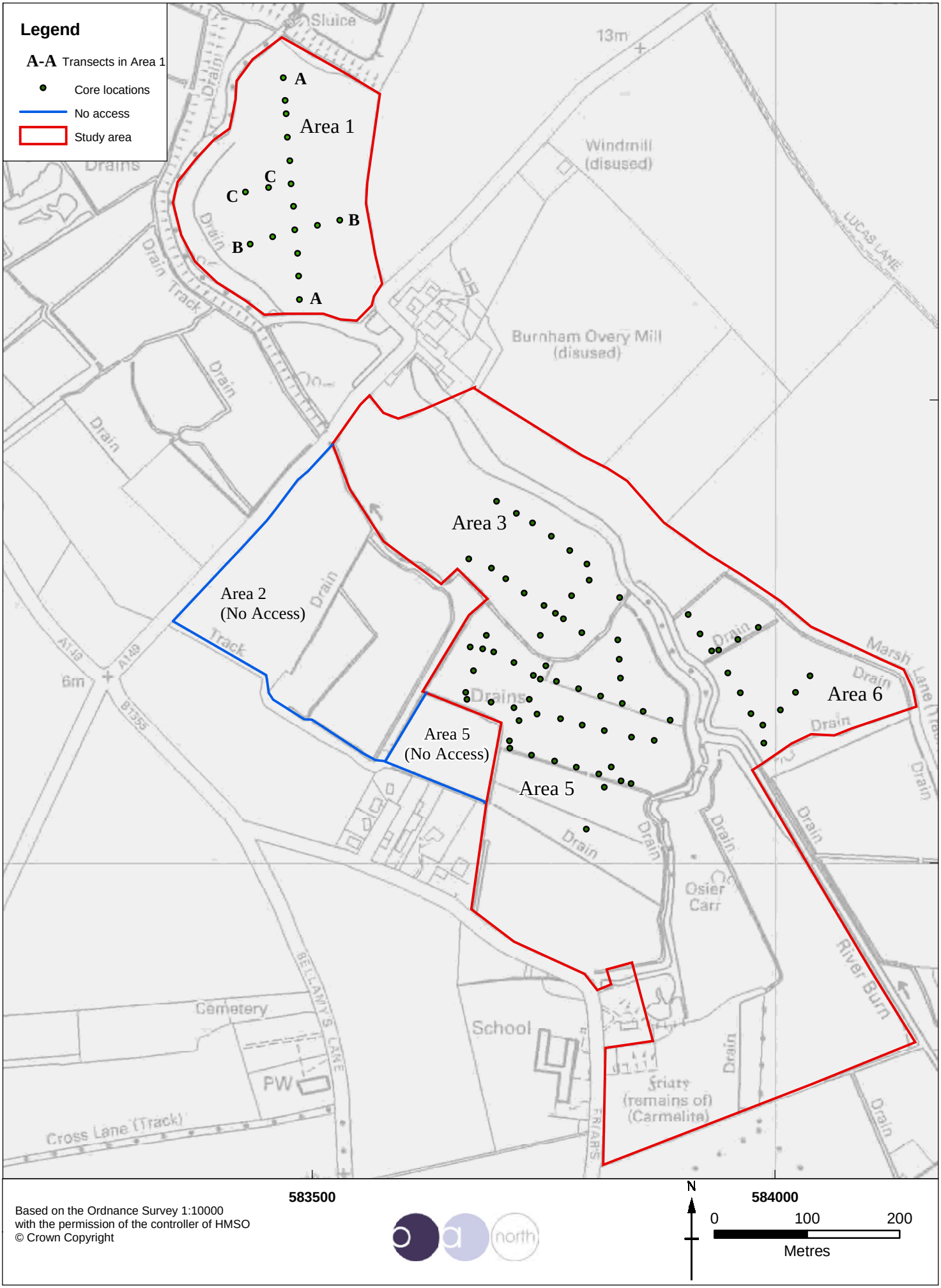


Figure 2: Burnham Overy study areas showing all core locations and the location of transects in Area 1

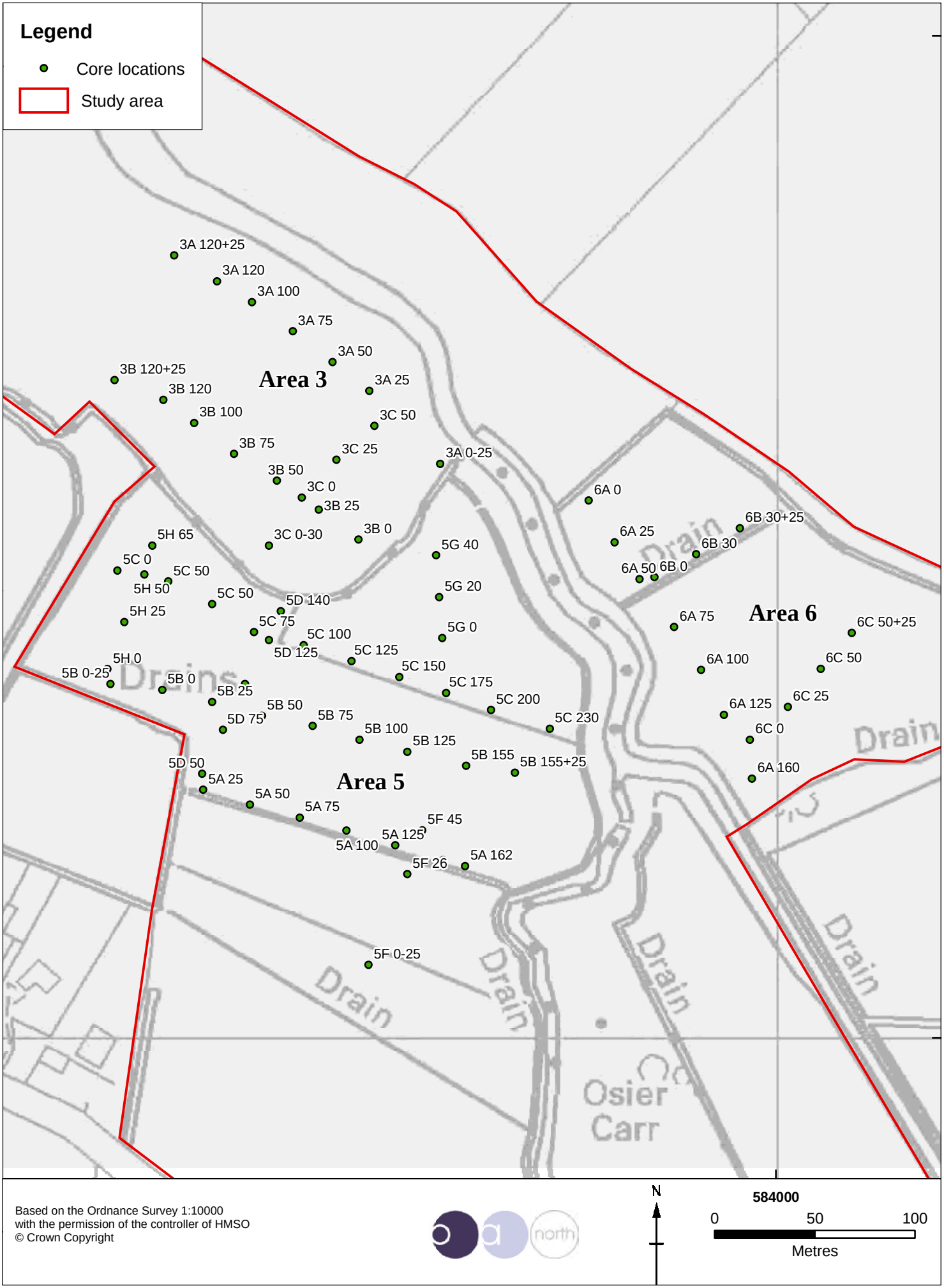


Figure 3: Core locations of Areas 3, 5 and 6.
Core numbers prefixed with -/+ 25 lie outside the area of the proposed reedbeds.

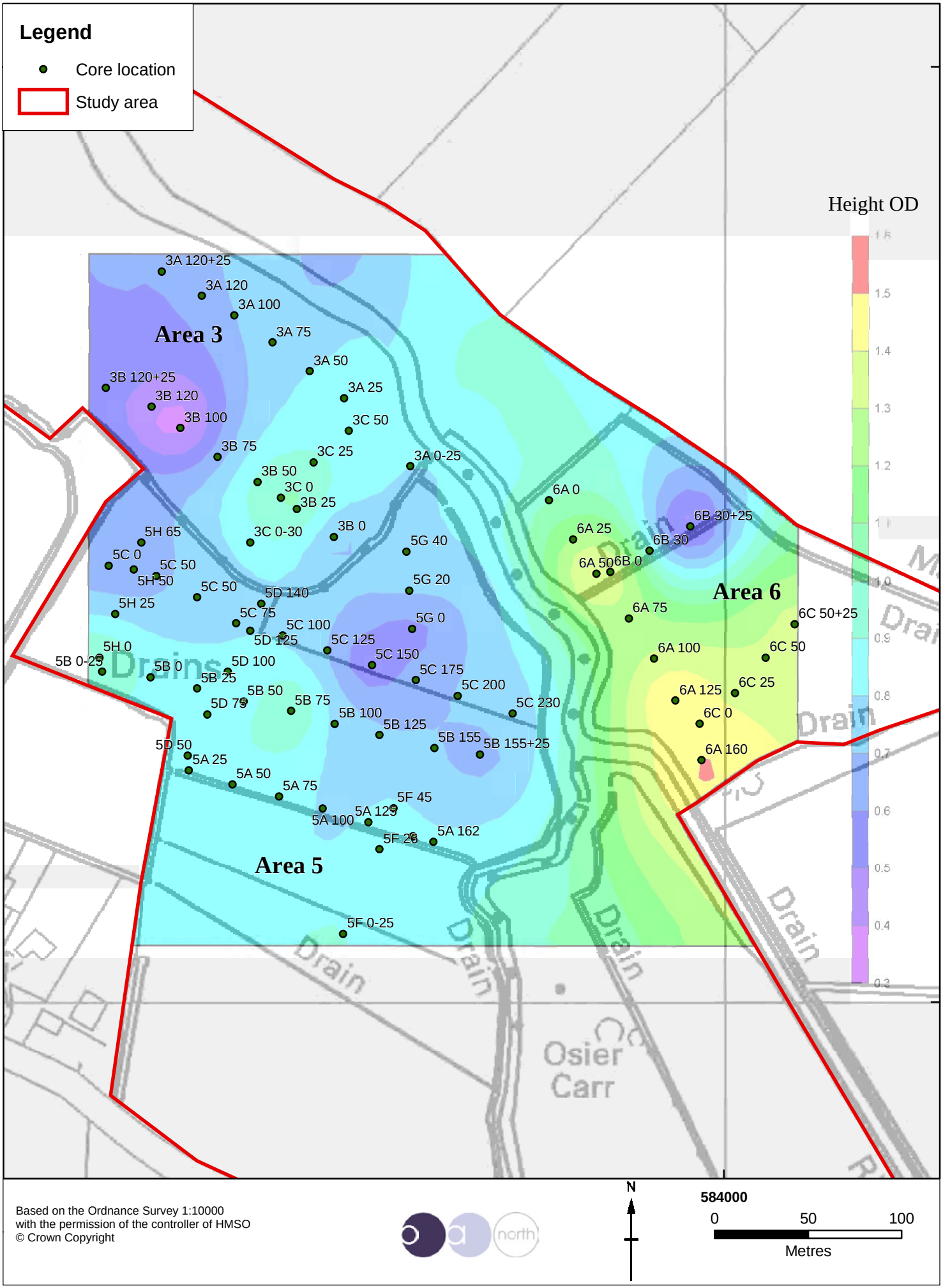


Figure 4: Model of bedrock

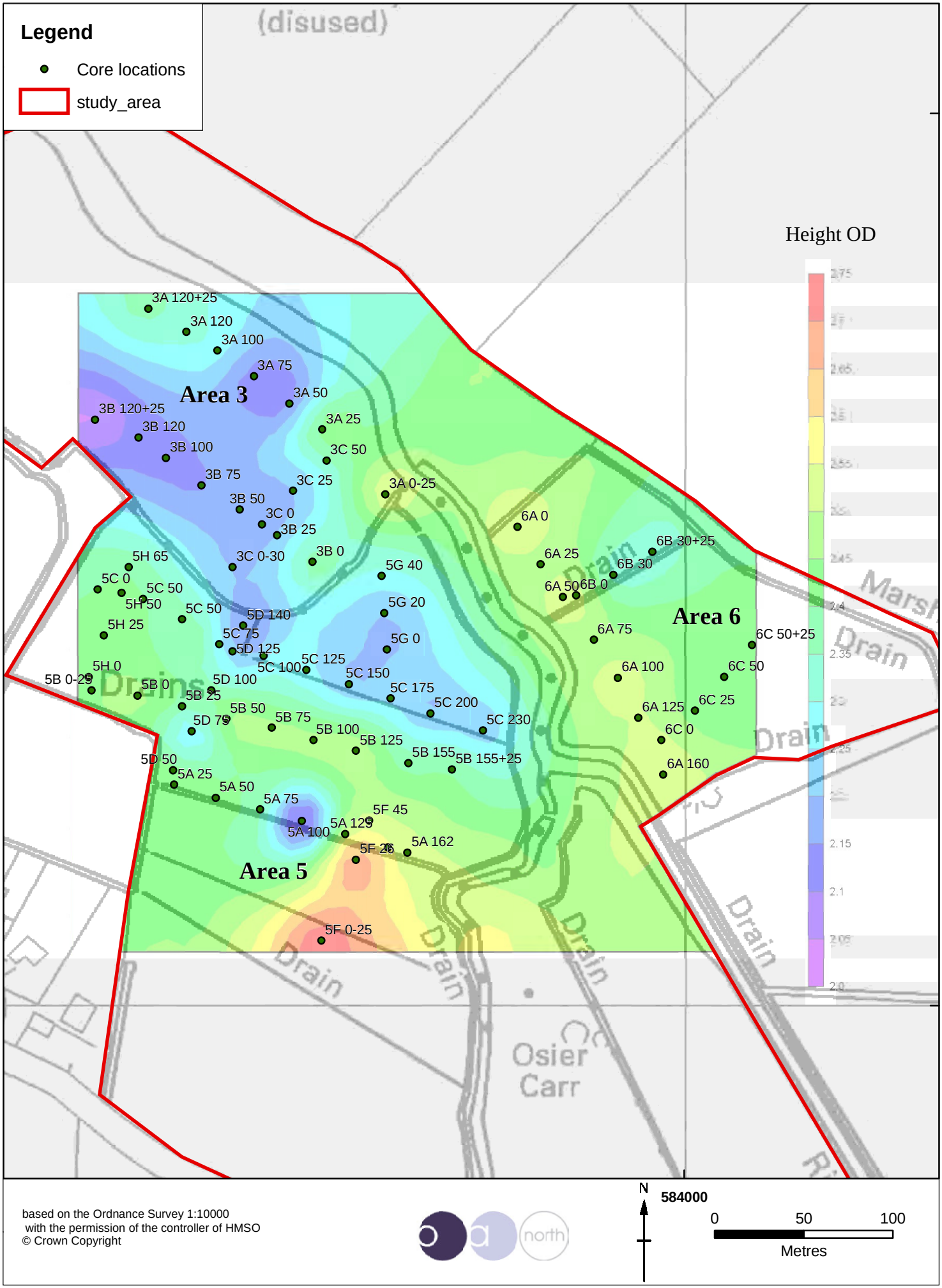


Figure 5: Model of present ground surface

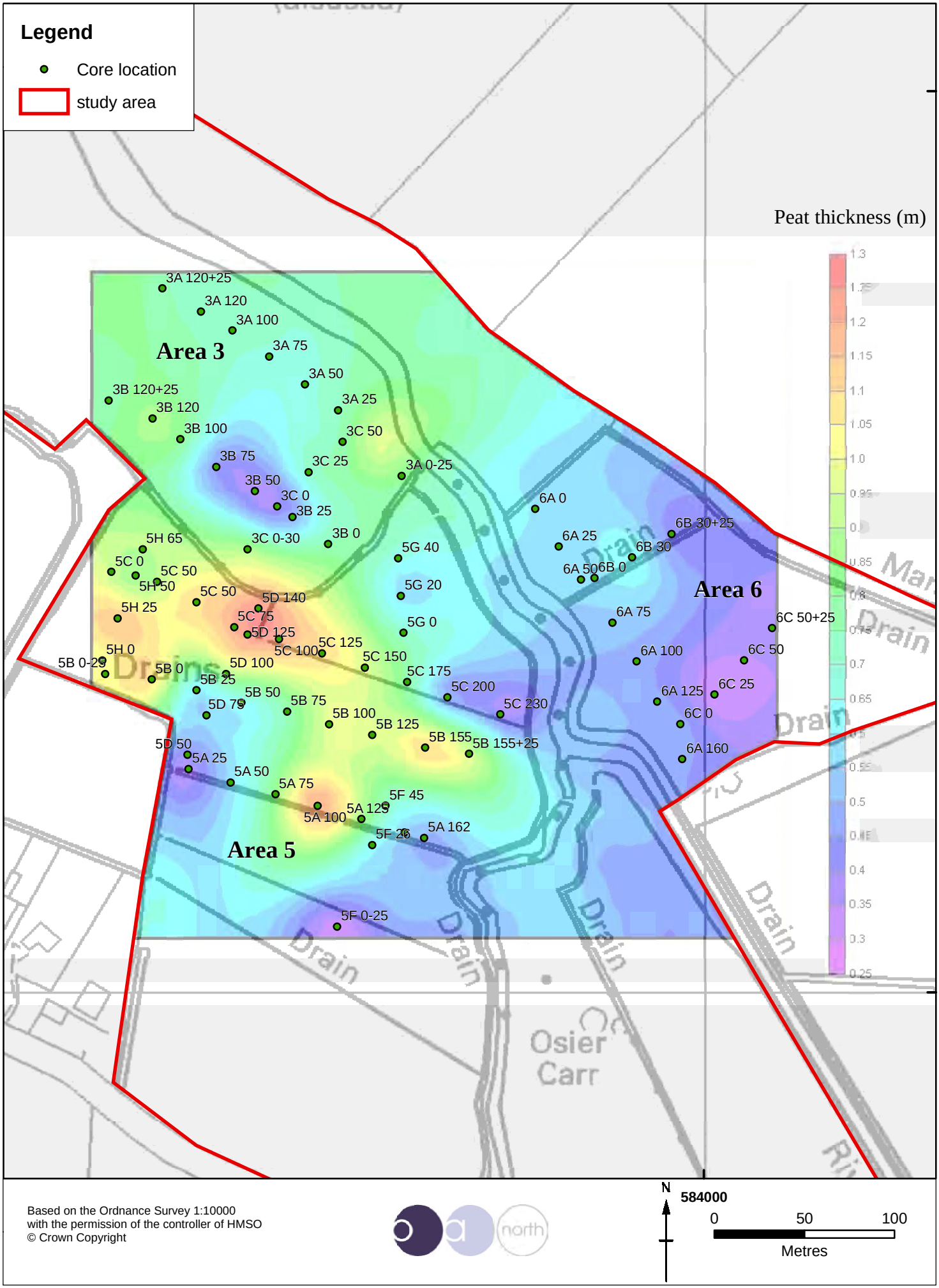


Figure 6: Model of peat thickness

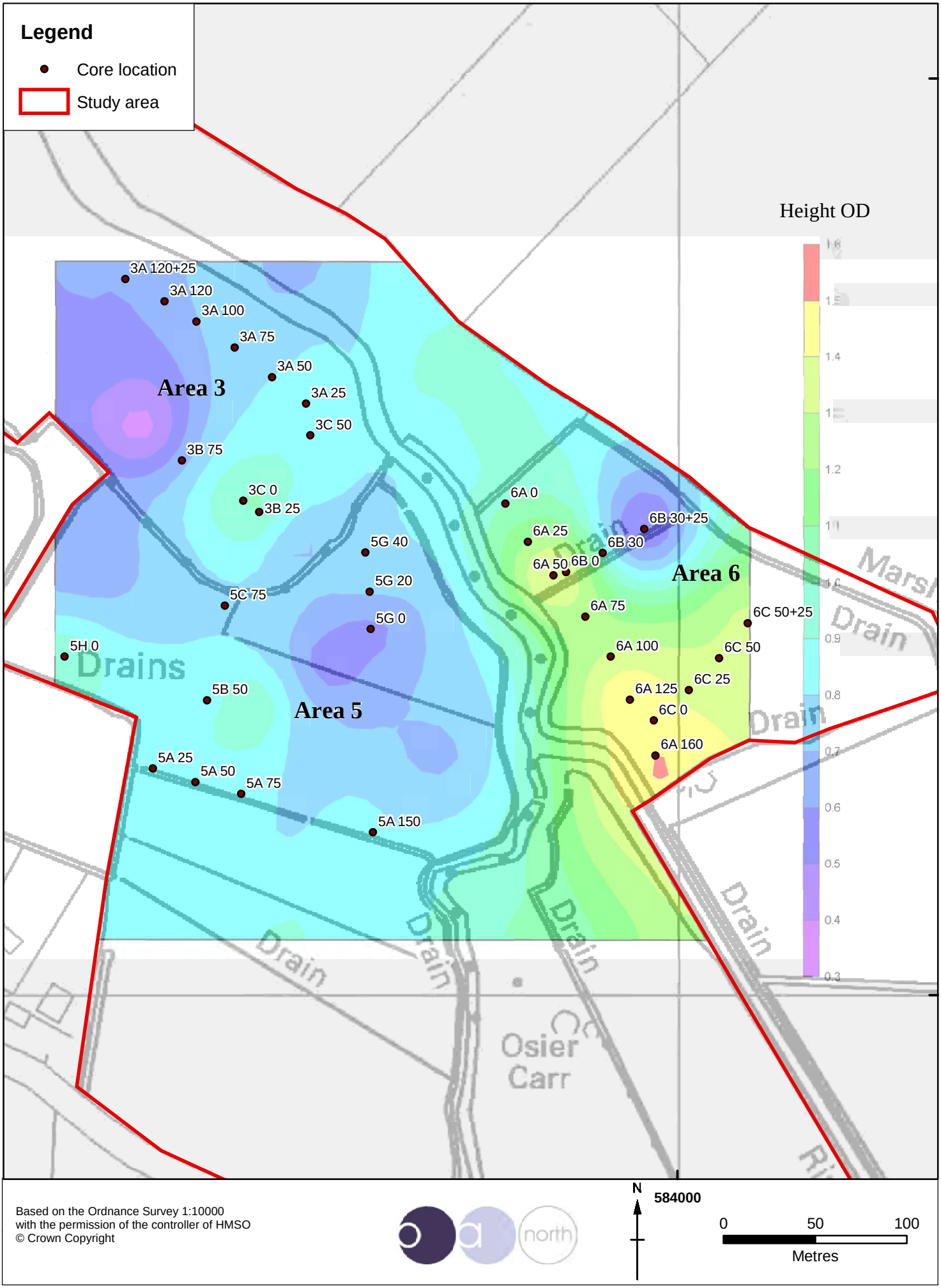


Figure 7: Location of cores with fluvial sand
in relation to bedrock

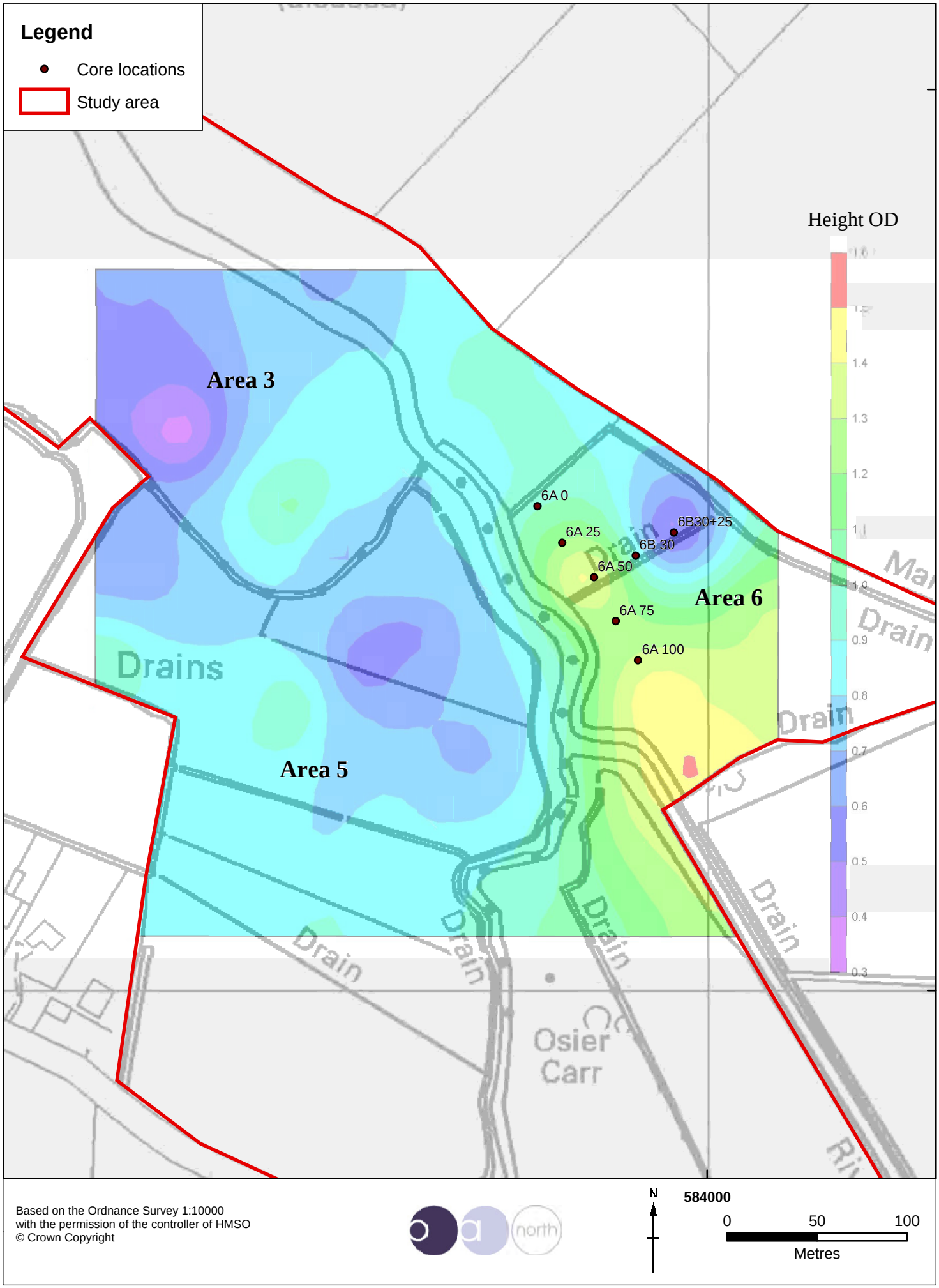


Figure 8: Location of cores with palaeosol
in relation to bedrock


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