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# **BBC Broadcast Tower, East Cliff, Abbey Lane, Whitby, North Yorkshire**

## archaeological assessment

on behalf of Crown Castle UK Ltd

> ASUD Report 993 May 2003

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Altrincham Business Park, George Richards Way, Altrincham, Cheshire, WA14 5GL

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### 1. Summary

#### The project

- 1 1 This report presents the results of an archaeological desk-based assessment and survey which were conducted in advance of development work to be undertaken within the compound of the BBC Broadcast Tower, East Cliff, Whitby, North Yorkshire The assessment comprised a search of pertinent documentary and cartographic records, a field visit and a detailed topographical survey
- 1 2 The works were commissioned by Crown Castle UK Ltd and conducted by Archaeological Services University of Durham m accordance with a specification provided by North Yorkshire County Council
- 1.3 The site of the proposed development fall within the area of Scheduled Ancient monument 13284, Whitby Abbey and Dark Age Settlement

#### **R**esults

1.4 The most obvious historical feature in the vicinity of the site are the medieval ruins of Whitby Abbey, which stands to the south of the site. This is also the site of the Anglo-Saxon monastery of *Streoneshalh*, which was founded on the site in 7<sup>th</sup> century Both of these sites have been intensively studied and a number of works have been published in relation to them (Peers and Radford 1943, Cramp 1976; Johnson 1993) Although the location of the tower compound itself falls outside of the northern boundary of the abbey, which is demarcated by the wall which runs parallel with the Abbey Lane, there is evidence for Saxon and medieval occupation to the west of the site in an area known as Abbey Plain. There is also further evidence of Saxon and Iron Age occupation from an area directly to the east. Therefore there is a high possibility that archaeological deposits relating to either, or both, of these settlements may be disturbed by the proposed development.

#### **Recommendations**

1.5 It is recommended that a programme of rigorous archaeological evaluation is carried out prior to the proposed development, in order to establish the nature and extent of any archaeological resource present which may be affected by the works.

## 2. Project background

#### Location

2.1 The site is situated at NGR NZ 9042 1138, immediately to the north of Coastguard Cottages, Abbey Lane, East Cliff, Whitby, North Yorkshire It is bounded on the north by a disused quarry an Abbey Plain, to the east is the Coastguard station.

#### Development<sup>,</sup>proposal

2.2 The proposed development consists of two 3m by 3m square areas within the compound of the BBC broadcast tower. The two areas represent the predetermined locations for the repositioning of two concrete anchor blocks. The relocation of the blocks is being undertaken as a temporary solution to the threat posed to the existing anchor point from the effects of coastal erosion.

#### Objective

2.3 The objective of the assessment is to identify the any archaeological features which maybe present withm or near to the site. This will enable an informed decision to be made regarding the nature and extent of any potential archaeological resource that may be present withm the proposed development area.

#### Specification

2.4 The works have been undertaken in accordance with a specification provided by North Yorkshire County Council Archaeology Section

#### Dates

2 5 The field visit and survey took place on 7<sup>th</sup> May 2003. This report was prepared between 8<sup>th</sup> April and 14<sup>th</sup> May 2003

## Personnel

2.6 This assessment was conducted by Mark Douglas. Survey work was conducted by J1m Wright and Mark Douglas and this report was prepared by Mark Douglas, with illustrations by Linda Bosveld The Project Manager was Richard Anms.

#### Acknowledgements

2.7 Archaeological Services is grateful for the assistance of Tony Wilmott of English Heritage CFA in the preparation of this report.

## 3. Topography and geology

- 3 1 The site is situated on an area of level ground on the raised headland west of the river Esk, Whitby, North Yorkshire, at a mean elevation of c 60m OD. Immediately to the north of the site is a vertical sea cliff, and to the west there is a cliff above Whitby harbour.
- 3 2 The underlying geology comprises alternate layers of sandstone and Carboniferous shale This is overlain with glacial deposits consisting mainly of boulder clay.

3 3 The unstable nature of the geology in the area represents a serious threat as the sea cliff is liable to substantial collapse. It has been predicted that recently the geology in the area has entered into a particularly unstable phase. It is estimated that up to 30m of the headland may be lost to erosion within the course of the next century This poses a significant risk not only to the buildings in the vicinity, including the medieval abbey, but also with respect to the loss of important archaeological deposits.

## 4. Historical and archaeological development

#### The prehistoric period

4 1 There is some archaeological evidence for the existence of prehistoric settlement in the vicinity of the tower compound However the full extent of this settlement has not been established.

## The Roman period (70AD to 5<sup>th</sup> Century AD)

4.2 It has been suggested that the Whitby Headland may have been the site of one in a chain of Roman signalling stations which stretched along the Yorkshire coast. The sites of five of these have been recognised, at Filey, Scarborough, Ravenscar, Goldsborough, and Huntcliff (White 1993) Although the Whitby Headland would have constituted a strategic site for the placement of such a signalling station the evidence for its actual existence on the ground has not been verified archaeologically There is, however, the possibility that the site may have been lost to the effects of coastal erosion. This is in the process of occurring at Filey and Huntcliff. The Ordnance Survey map of 1894 does show some evidence of earthworks in the vicinity of the modern signal station

## The medieval period (5<sup>th</sup> century AD to 1540 AD)

The phase of development which took place in the area of the headland 43 between the 7<sup>th</sup> to 9<sup>th</sup> centuries, with the establishment of the Anglo-Saxon monastery constitutes one of the most historically significant periods in the history of the Whitby area, and indeed nationally The first literary reference to the monastery is made by Bede who says that it was founded by St Hilda at a place called *Streoneshalh* c657AD This reference to an actual place may suggest that there was a settlement of some kind present on the headland prior to the establishment of the monastery The monastery which was a double foundation, occupied by both men and women, lasted until the time of the first Danish raids on the North East coast in the 9<sup>th</sup> century, after which time it was abandoned It is not know whether a secular settlement survived m the area as no mention is made of it until the re-establishment of a religious community in the 11th century. The medieval Benedictine abbey of Whitby was established by one Reinfrid who, it is said, founded it at "the place long ago called Streoneshalc, then Priestbi and now Witebi" (Atkinson 1878) The distinction between the two places of Prestebi and Witerbi is considered by Rahtz, who suggested that the place name Streoneshalh probable went out of use after the destruction of the monastery and that Prestebi and Witebi constitute "two distinct places, probably corresponding respectively to the hill-top settlement and that around the harbour As Whitby grew in importance it presumably absorbed Prestebi as the place-name" (Rahtz 1962,606) There are indications of a secular settlement associated with the Anglo-Saxon monastery and its

location is represented on the Charlton map of 1778 to the with the words "Here steanfhalh formery stood" (Figure 1) Young, in his History of Whitby (1817) states that in this area "foundations of buildings, and even streets, are still very discernible in the fields that are on the verge of the cliffs adjacent to the church yard" (Young 1817,471).

#### The post-medieval period (1541 AD to 1899 AD)

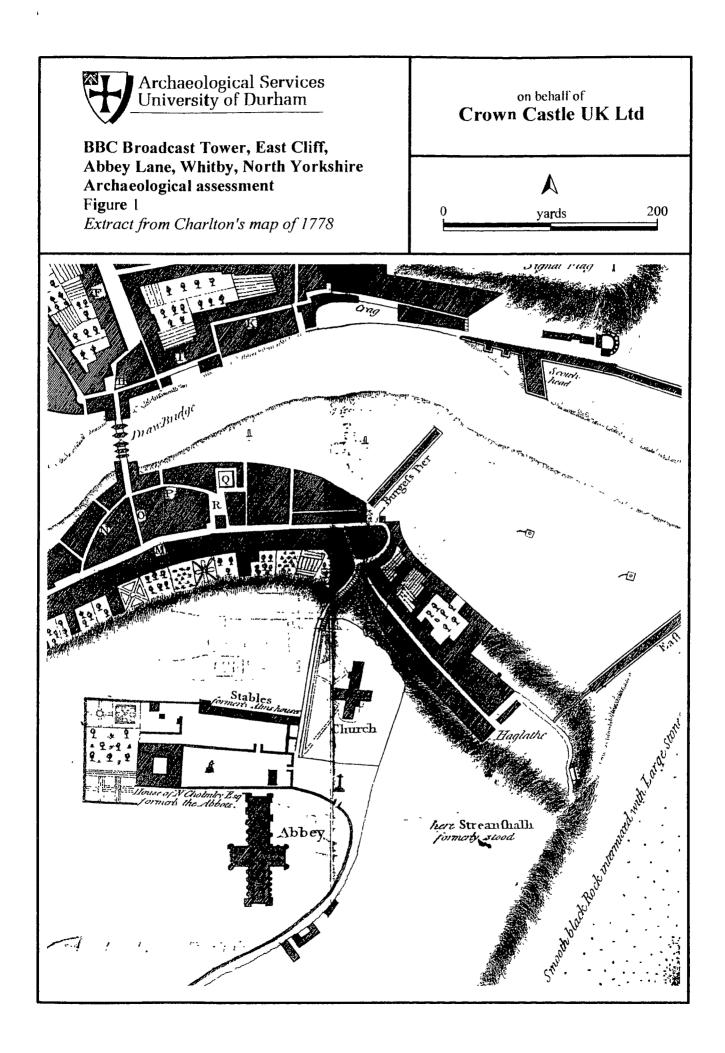
4.4 After the dissolution of the abbey in 1540 land formerly associated with it came under the control of Sir Francis Cholmley The house built by Chomley utilized stone from the runs. Although post-medieval agricultural activities continued at this time in the area of the Abbey Field it appears that the former settlement had long been abandoned. Documentary and cartographic evidence for the precise area of the headland under consideration is somewhat scant Map evidence from the 17<sup>th</sup> and 18<sup>th</sup> century either fails to indicate any form of structural or topographical features m the area or simple refers to the existence of the earlier settlement of *Streoneshalh* The first edition Ordnance Survey map of 1853 does show St Hilda's Cottages and a feature described as the *'Hole of Horcum'* Post-medieval features were agricultural terraces, one with a stone revetment (Jennings, Muldowney and Wilmott 2002)

#### The modern period

4 5 Coastguard Cottages erected in the earlier part of the 20th century and which an earlier cottage and farmyard which are shown on the 1894 OS map The Coastguard signal station is a modern replacement of a former building which is shown on the 1894 and 1913 OS maps. The BBC mast and associated buildings withm the compound were erected 1969.

#### Previous archaeological works

- 46 In 1968 an excavation in advance of the erection of the BBC mast was carried out on the site of the BBC mast compound by Mr Brewster of the East Riding Archaeological Research Committee The excavation report states that the "Excavation uncovered a sleeper trench associated with twelfth-century potsherds. Above was a layer containing numerous fragments of cooking pots and thirteenth-to 14th-century glazed ewer fragments and pieces of burnt daub No evidence to suggest a Roman signal station had existed on the site came to light TC M Brewster 5/1/69 " (quoted in English Heritage 1997b)
- 4 7 The excavations carried out by Peers and Radford between 1920 and 1925 (1943) concentrated on the area the abbey precinct between the north side of the Abbey church and the boundary of Green Lane A number of buildings relating to the monastery were uncovered, along with numerous finds which relate to this type of ecclesiastical establishment. Within the area exposed by the excavation was line of a former roadway or bank and this has been interpreted as the remains of the fomier northem boundary, the 'Vallum Monasteru,' of the Anglo-Saxon monastery (Rahtz 1962). It was also evident from the site plan of the 1920-25 excavation that there was an extension of building remains beyond this northem boundary, m the direction of Abbey Plain

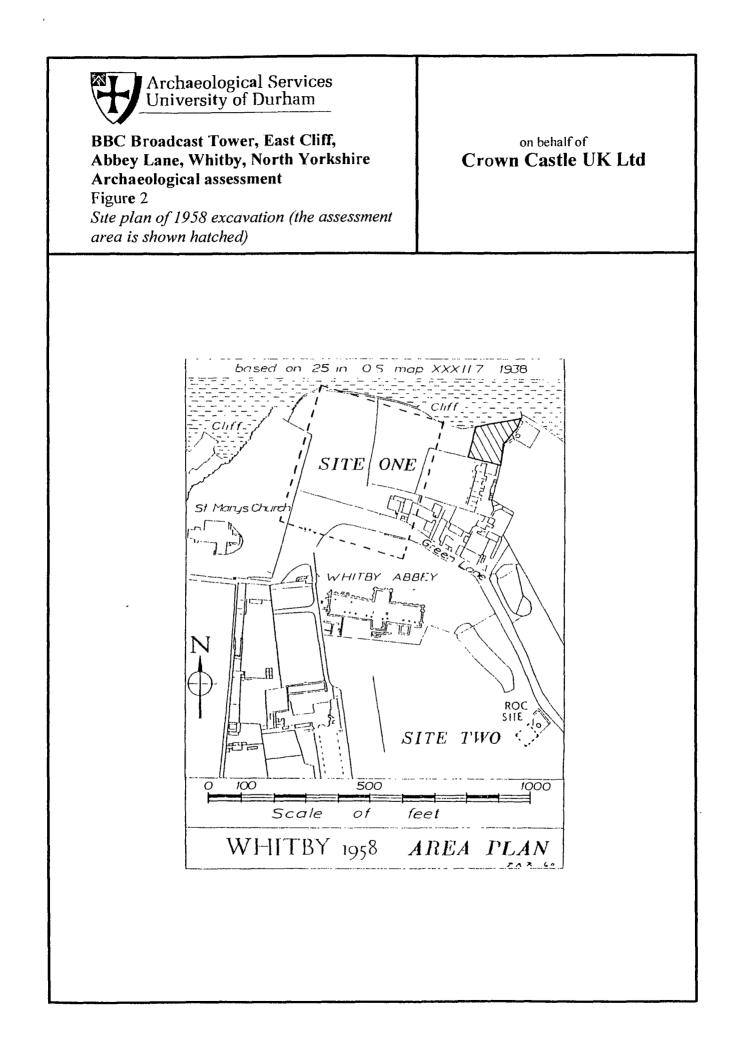


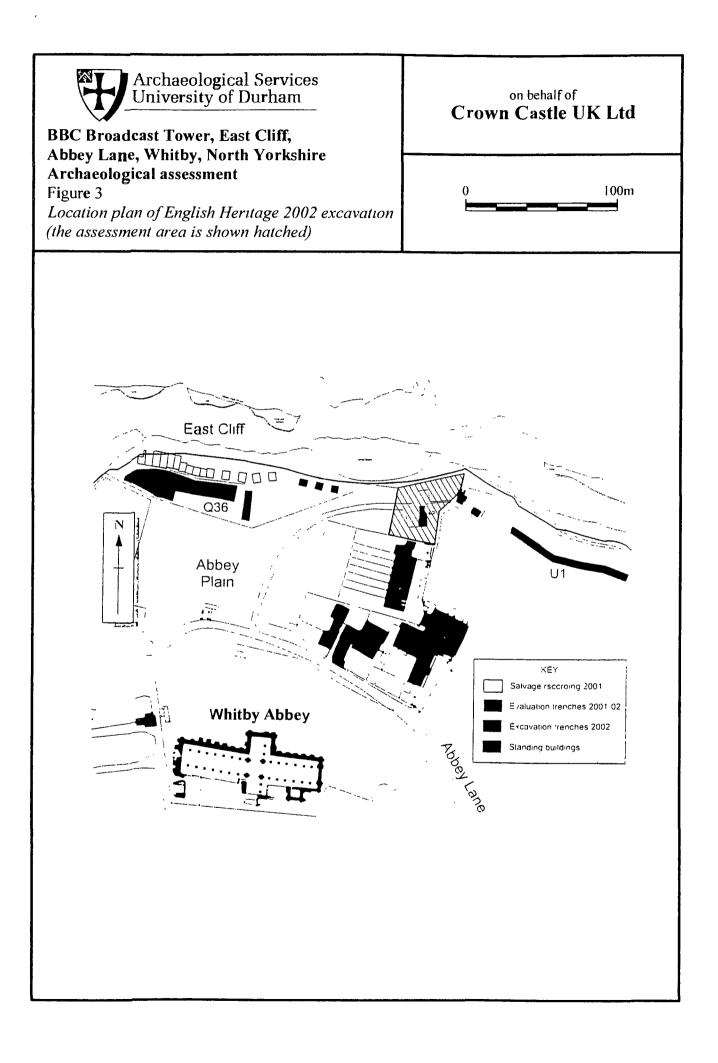
- 4.8 Rahtz's excavation of 1958 (Figure 2) examined the archaeological remains located in the field north of Green Lane, this area, Abbey Field, lies to the west of the proposed development site. The area contained a number of surface features indicating the presence of banks and ditches A slope running roughly north-south divided the eastern area of the site into an upper and lower terrace. The excavation demonstrated the existence of Saxon and medieval buildings and occupation deposits associated with the southern section of the site and the upper terrace to the east. Saxon pottery was recovered from trial pits excavated on the upper terrace and it is suggested that the centre of occupation lay in this area (Rahtz, 1962). It was concluded that the archaeological evidence recovered relates to the existence of a secular settlement located outside the limits of the Abbey grounds.
- 49 Excavations carried out by English Heritage in 2001-2 (Jennings, Muldowney and Wilmott 2002), to the east of the Coastguard station, (Figure 3) uncovered the remains of a prehistoric relating to four chronological phases. A section of a round house and associated features which may date from the 1<sup>st</sup> or 2<sup>nd</sup> century BC was excavated. A number of finds were recovered which included a quantity of Iron Age pottery, flint and fire cracked pebbles This is the first definite indication of prehistoric settlement in the area and as such constitutes an important development in the history of the headland. The area excavated was limited to a strip along the cliff edge which was under imminent threat from coastal erosion, and so the full extent of the prehistoric occupation has not been fully established The excavations revealed further evidence for the extent of the secular Anglo-Saxon and medieval settlement Two areas of the headland were investigated, one to the west of the proposed development area and the other to the east. The western excavation revealed areas of occupation including postholes, hearths and domestic refuse, loom weights, spindle whorls, pottery, glass and copper alloy pins. Industrial activity was also indicted by the presence of large amounts of iron smithing slag. Further evidence of industrial activity was recovered from the excavations located to the east of the proposed development site. Here a number of pits was located, delimited by two charcoal-filled ditches. Lead working waste was recovered from one of the pits The most significant finds from this area are represented by several pieces of coloured raw glass, which, it is suggested indicates the presence of glass working activity.

5. Survey work (Figure 4)

- 5 1 Survey was carried out on 7<sup>th</sup> May 2003 using a Geodimeter 420 Total Station and an automatic level An arbitrary datum was established for X and Y, while Z was established from the fundamental bench mark at Green Lane Top with a check on an adjacent bench mark.
- 5 2 Processing of data was carried out on Survpro and DGM3 software and drafted using ACAD2000 compatible CAD software. Five existing survey nails within red painted circles were found on site and surveyed in. One of these on the north west anchor block was used to establish approximate OS grid values using Magellan Sportrak hand held GPS with WAAS enabled giving absolute position of +/- 1 metre. The other two anchor block nails were used to establish a best mean fit for orientation to OS grid North.

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- 5 3 Although the specification required the surveying of the cliff edge, this was not carried out due to health and safety constraints
- 5.4 No evidence of archaeological features was recorded in the course of the survey work

## 6. The potential archaeological resource

6 1 Based on the evidence presented by this assessment and archaeological work previously carried out m the immediate vicinity of the proposed development site, it is clear that there is a very high probability that any form of ground disturbance in this area will result m the destruction of significant archaeological deposits. It is considered that the archaeological features and deposits which are likely to be present in the area of the proposed development constitute an important archaeological resource that requires rigorous and detailed examination.

## 7. Recommendations

7.1 It is apparent, based on the evidence provided, that these features and deposits are of an ephemeral nature and may not be immediately apparent during the course of a watching brief. This point is reiterated in the Whitby Abbey Headland Project Conservation Plan Policy A3, which states that "*The Archaeology of the headland is of international significance, but is very fragile Piecemeal evaluation or excavation can be damaging and difficult to interpret*" (English Heritage1997a, 46). It is therefore strongly recommended that the initial phase of excavation for the relocation of the anchor blocks (as outlined in para 2.2 above) is carried out in the form of a full and intensive archaeological investigation

## 8. Sources

8 1 Cartographic sources

Charlton, 1778. Plan of the Town and Harbour of Whitby, taken from Young 1817

- 1843. Ordnance Survey 1<sup>st</sup> Edition, 6" sheet XXXII
- 1894 Ordnance Survey 1<sup>st</sup> Edition, 25" sheet XXXII
- 1913 Ordnance Survey 2<sup>nd</sup> Edition, 25" sheet

## 8 2 Other sources

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