

Centre for Archaeology Scientific Dating Service

## **Details of Radiocarbon Sample**

<b>For Dating Lab use</b> Lab No			
Result			
$\delta^{l3}C$ :			
$\delta^{I5}N$ :			
Other lab nos			

Please complete this form for every radiocarbon sample which you wish to submit for dating. The detailed information requested is essential for the assessment and full scientific publication of your samples and may be published verbatim. Incorrect or incomplete submissions will cause delay.

Name of site			Beccles							
Name or code of series			Beccles#1							
			Beccles#	ŧ1 1	15cm					
Type of mate			with X							
Animal bone		Charcoal		L	eather	Shell		Wa	ter	
Antler		Fabric		Pe	eat	Slag	Wood			Х
Bone		Grain		Pl	ant macrofossil	Soil				
Carbonised resid	ue	Human b	one	Se	ediment	Thatch				
Specific identification eg left tibia, <i>Quercus</i> sp., sapwood,					Weight of eg less than		e			
Name of person carrying out identification and institution affiliated to					Date identified		,			
Collector's name			Dr Tom	Hill		Date collected July		2006		
Submitter's name  Dr Ben		Dr Ben (	Gear	Date subr		nitted October 2006				
Estimated are	chaeolo	gical per	riod Plea	ase 1	mark with X					
Palaeolithic		0,000 BP			Post medieval		1540 – 1955 cal AD		T	
Mesolithic	10,000 BP – 4,000 cal BC			Holocene						
Neolithic	4,000 – 2,500 cal BC			GS-1 (Younger Dryas)						
Bronze Age	2,500 – 600 cal BC			GI–1a (Allerød)						
Iron Age	cal BC 600 – 43 cal AD				GI–1b+c (Older Dryas)					
Roman	43 – 410 cal AD			X	GI-1d+e (Bølling)					
Early medieval	410 – 1066 cal AD			GS–2 (Middle Weichselian)						
Medieval	1066 – 1540 cal AD									T
Context	•				•		•			

For	AML	use
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AML approval AML no

Financial year Deadline

Notes for dating laboratory

Was the sample	X	Sealed in recognisable layer?
Please mark with X		Sealed in a localised feature? eg a grave or pit
	Unstratified	
		Other eg wooden pile foundation
This is known	X	Confidently
Please mark with X		Probably
		Doubtfully

## Stratigraphic details

Please give details of the contextual and stratigraphic location of the sample, attaching plan or section. Please discuss the possibility of intrusion or residuality *eg inhumation G76 overlying* posthole P27 and inhumation G124 and cut by inhumation G128. The skeleton was fully articulated, removing any possibility of disturbance or excarnation.

Analysis of aerial photographs, LiDAR and grey literature as part of the Suffolk River Valleys Project resulted in the identification of a thick peat sequence within the valley floodplain of the River Waveney, proximal to the town of Beccles.

0-20	Dark brown herbaceous very well humified silty peat
20-85	Medium brown very well humified silty peat
85-100	Grey-brown organic rich silt
100-116	Dark grey-brown very well humified silty peat
116-200	Red-brown very well humified peat with occasional wooden fragments
200-484	Dark red-brown herbaceous very well humified woody peat
484-500	Dark brown herbaceous very well humified peat
500-525	Dark red-brown herbaceous very well humified peat
525-535	Dark brown herbaceous very well humified peat
535-545	Dark grey-brown organic-rich sandy silt.

Sample Beccles#1 115cm was taken from the base of a dark grey-brown very well humified silty peat, believed to have been deposited prior to the introduction of inter-tidal estuarine conditions.

#### **Environmental Details**

Please give full details of the burial environment of the sample, including local geology, nearness to water table, calcareous environment, rootlet penetration, disturbance etc. *eg grave 1.7m from surface, waterlogged in winter, cut into natural chalk (pH 7.5). Possible contamination from modern septic tank to NW.* 

The underlying geology of this part of the Waveney Valley comprises glaciofluvial drift and chalk till.

The stratigraphy and sedimentology of the deposits suggests the area has infilled naturally through biogenic in-situ sedimentation. A thin silt horizon is located c. 85-100cm depth is believed to be of estuarine origin, and is indicative of a period of temporary marine inundation before a return to terrestrial sedimentation. Estuarine sediments become present in increasing thickness within the valley's sedimentary archive with distance north from the Beccles#1 core site. The natural water table was located c. 0.5m from the surface, although an archaeological dig proximal to the site resulted in the temporary artificial lowering of the water table. Rootlet penetration was not evident within the core upon extraction.

## **Objective**

Please describe explicitly the relevance of this sample to the specific dating objective(s) of the project. This information should hold good regardless of the final result of the analysis. This is **your** chance to justify the expense of dating **your** samples!

eg to establish the period of use of the cemetery to the W of the church and N of the fourteenth-century boundary ditch, the absolute date of this burial in comparison to G124 which it seals and G128 which cuts it, and to provide useful comparative information for the osteology since this skeleton has also provided a stable isotope measurement ( $\delta^{15}N$ , 6.2 ).

- To determine the timing of organic sedimentation across the Holocene floodplain.
- To identify the timing of the onset of silty peat deposition prior to the introduction of estuarine conditions to the valley setting.
- To determine the duration of minerogenic sedimentation and variations in the rates of sedimentation during the depositional history.

Relationship of sample to objective Please mark with X					
X	Certain	The sample came from the object itself <i>eg skeleton in grave</i>			
	Very likely	There is a direct functional relationship between the sample and the			
		objective eg coffin in grave			
	Likely	The nature and position of the sample suggests a functional			
		relationship eg worked antler in an occupation layer			
	Possible	Relationship less obvious because material small and scattered <i>eg</i>			
		bone fragments in grave			
Esti	Estimated age of sample at death Please mark with X				
X	x Less than 20 years eg twigs, grain, bone				
	Could be several decades but less than 100 years eg charcoal from short lived woody species (eg				
	Corylus avellana, Prunus sp., Pinus sp., Salix/populus sp.)				
	Could be centuries old eg charcoal from long lived woody species (eg Quercus sp., Fraxinus				
	sp., Taxus baccata)				
	Unknown eg 'dark earth', soil				

# Sample collection, storage and treatment How was the sample collected? Please include details of size and type of monolith tins or coring equipment if appropriate eg concentration of charcoal trowelled into polythene bags (double bagged), charcoal separated by water floatation Using 7cm Russian Corer to 4.0m depth, and gauge corer 4.0m to 5.45m depth How has it been stored? Eg double bagged in polythene in cardboard box Core preserved in 1m sections in guttering, wrapped in the field, sub-sampled and stored in fridge on returning to the laboratory. Have any preservatives, fungacides, glues etc been used? Please give details of chemicals No Was the sample waterlogged when collected? No Has it been dried and if so how? No Can the whole sample be used for dating? Yes

Is more material available?

We could collect more material from appropriate samples

Has this or any related sample been sent to another laboratory for dating? Please give laboratory references and radiocarbon ages

No

23 Savile Row London W1S 2ET

Te1 020 7973 3299 Fax 020 7973 3330

alex.bayliss@english-heritage.org.uk Email