

Centre for Archaeology	
Scientific Dating Service	,

Details of Radiocarbon Sample

For Dating Lab use Lab No	
Result	
$\delta^{l3}C$:	
$\delta^{l5}N$:	
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								
Your sample reference			Beccles#	1 84	4cm					
Type of mater	rial Ple	ease mark v	with X							
Animal bone		Charcoal		Leather		Shell		Water		
Antler		Fabric			eat	Slag	Wood		<u>t</u>	X
Bone		Grain			lant macrofossil	Soil				
Carbonised residu	ie	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						Date iden				
out identification and		•				Dute fueli	tillea			
institution aff										
Collector's name		Dr Tom Hill		Date collected		July 2006				
Submitter's name		Dr Ben Gearey		Date subr	nitted	ed October 2006				
Estimated arc	haeolo	gical per	riod Plea	ise i	mark with X					
Palaeolithic		0,000 BP				1540 – 1955 cal AD		al AD		
Mesolithic	10,000	BP - 4,000	cal BC	cal BC Holocene						
Neolithic		- 2,500 cal			GS-1 (Younger Dry	as)				
Bronze Age		- 600 cal B			GI–1a (Allerød)					
Iron Age		600 - 43 c	al AD		GI–1b+c (Older Dry	as)				
Roman	43 - 41	– 410 cal AD			GI–1d+e (Bølling)					
Early medieval	medieval 410 – 1066 cal AD				GS-2 (Middle Weic	hselian)				
Medieval	lieval 1066 – 1540 cal AD									

For AML use
AML approval

AML no

Financial year Deadline

Notes for dating laboratory

Context		
Was the sample Please mark with X	X	Sealed in recognisable layer?
		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 84cm was taken from the base of a dark grey brown very well humified silty peat.

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 sediments were extracted using a Russian corer to a depth of 4m, whilst a gauge corer was used to extract sediments from 4.0m to 5.45m. 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 removal of estuarine conditions from the valley setting.
- To determine the duration of biogenic sedimentation and variations in the rates of sedimentation during the depositional history.

Rela	tionship 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	mated age of sampl	e at death Please mark with 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 ed	arth', 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 <i>eg concentration of charcoal trowelled into polythene bags (double bagged), charcoal separated by water floatation</i>
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 Tel 020 7973 3299 Fax 020 7973 3330

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