

Centre for Archaeology	
Scientific Dating Service	,

## **Details of Radiocarbon Sample**

For Dating Lab use Lab No
Result
δ <sup>13</sup> C:
δ <sup>15</sup> 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#2								
Your sample reference			Beccles#2 137cm								
Type of mater	ial Ple	ease mark v	with X								
Animal bone		Charcoal		Le	eather		Shell		Water		
Antler		Fabric	Peat		X	Slag		Wood			
Bone		Grain			lant macrofossil		Soil				
Carbonised residu	ıe	Human b	one	Se	ediment		Thatch				
Specific identi	ificatio	n		Weight of					e		
eg left tibia, <i>Quercus</i> sp., sapwood,							eg less than 5g				
Name of person carrying						Date identified					
out identification and		d									
institution affiliated to											
Collector's name					Date collected Aug		Aug	ust 2007			
			Dr Tom Hill								
Submitter's name						Date subn	e submitted   August		ust 2007		
			Dr Ben Gearey								
Estimated arc			riod Plea	ise i	mark with X						
Palaeolithic	Until 10,000 BP				Post medieval			1540 – 1955 cal AD			
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	g)					
Early medieval 410 – 1066 cal AD			)		GS-2 (Middle W	eich	selian)	_			
Medieval	Medieval 1066 – 1540 cal AD										

For AML use	,
AML approval	

AML no

Financial year Deadline

Notes for dating laboratory

Context	
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.

Beccles#2	
0-100cm	Disturbed topsoil/made ground (possible dumping from proximal
	drainage ditch – unsampled)
100-138cm	Dark red-brown silt-rich well humified peat
138-232cm	Dark brown very well humified peat with occasional wood fragments
232-360cm	Dark red-brown very well humified peat with occasional wood fragments
360-400cm	Dark red-brown herbaceous humified peat
400-430cm	Dark brown-black very well humified peat

Sample Beccles#2 137cm was taken from the base of a dark brown silt-rich well humified 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. There is no evidence for channel migration in this part of the Waveney Valley, indicating sedimentation in a back-water lagoonal environment is a more likely depositional environment than a palaeochannel setting. Estuarine sediments are present further north from the location of core Beccles#2, indicative of estuarine inundation in the surrounding area. The sediments were extracted using a Russian corer to a depth of 4.30m. The natural water table was located c. 0.8m from the surface. Rootlet penetration was not evident within the core upon extraction, although phragmites was present (which are known to penetrate peat to considerable depths).

## **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 determine the duration of biogenic sedimentation and variations in the rates of sedimentation during the depositional history.

<b>Relationship of sample to objective</b> 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	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 conection, storage and treatment
<b>How was the sample collected?</b> 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 4.30m depth
Osnig 7cm Russian Colei to 4.30m depth
How has it been stored? Eg double bagged in polythene in cardboard box
now has it been stored. Eg double bagged in polymene in cardobard box
Core preserved in 1m sections in guttering, wrapped in the field, sub-sampled and stored in
fridge on returning to the laboratory.
ridge on retaining to the taboratory.
Have any preservatives, fungacides, glues etc been used? Please give details of chemicals
No
NO NO
Was the sample waterlogged when collected?
1 88
AT.
No
Has it been dried and if so how?
Thas it been difed and it so now.
No
Can the whole sample be used for dating?
Yes
Is more material available?
We could collect more meterial from appropriate samples
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
Tauuratury references and radiocardon ages
No

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