

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#2							
Your sample	referen	ice	Beccles#	2 28	83cm				
Type of mater	ial Ple	ease mark v	with X						
Animal bone		Charcoal		Le	eather	Shell		Water	
Antler		Fabric			eat	Slag		Wood	
Bone		Grain			ant macrofossil	Soil			
Carbonised residu	ie	Human b	one	Se	ediment	Thatch			
Specific ident eg left tibia, <i>Quer</i>						Weight of eg less than		e	
						Date iden		<u> </u>	
Name of person carrying out identification and					Date identified				
institution aff		to							
Collector's name		Dr Tom Hill		Date collected		July 2006			
Submitter's name		Dr Ben Gearey		Date subn	mitted October 200		06		
Estimated arc	haeolo	gical per	riod Plea	ise i	mark with X				
Palaeolithic	Until 1	0,000 BP			Post medieval		1540 -	1955 cal AE)
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 B0		<u>C</u>		GI–1a (Allerød)					
Iron Age cal BC 600 – 43 ca		al AD	X	GI–1b+c (Older Dryas)					
Roman 43 – 410 cal AD				GI–1d+e (Bølling)					
Early medieval 410 – 1066 cal AD)		GS-2 (Middle Weichselian)					
Medieval	1066 –	1540 cal A	D						

For AML	use
AML approv	val

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, combined with sedimentary coring as part of the Suffolk River Valleys Project, resulted in the identification of minerogenic sediments overlying peat within the valley floodplain of the River Waveney, proximal to the town of Beccles. Analysis of the minerogenic sediments has indicated deposition in an intertidal coastal lowland environment.

0-16	Unsampled in core
16-89	Blue-grey (with organic and fe mottling) clayey silt
89-96	Grey-brown organic rich rooty silt
96-135	Blue grey (with org and fe mott.) clayey silt
135-156	Grey-brown organic-rich silt
156-174	Blue-grey (org mott.) clayey silt
174-223	Grey-brown organic rich silt
223-251	Blue-grey (org. mott.) clayey silt
251-255	Grey-brown organic rich silt
255-258	Blue-grey (org. mott.) clayey-silt
258-276	Grey-brown organic rich silt
276-284	Blue-grey (org. mott.) clayey-silt
284-374	Dark brown herbaceous well humified silty peat, becoming red-brown with
	depth
374-388	Wood horizon

Sample Beccles#2 283cm was taken from the base of a blue-grey clayey silt, believed to have been deposited in an inter-tidal estuarine environment. This sample is located immediately above freshwater peat deposits, indicative of a shift in depositional conditions around this time.

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 initially infilled naturally through biogenic in-situ sedimentation. A shift from freshwater to estuarine conditions then occurred, resulting in the deposition of minerogenic sediments within a lowland coastal setting. The thickness of the estuarine sedimentary unit increases with distance north from the Beccles#2 core site. To the south, the thickness of the unit reduces until the stratigraphic archive is composed primarily of freshwater peat deposits. The natural water table was located c. 0.5m from the surface. 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 onset of minerogenic sedimentation onto the underlying freshwater peat deposits across the Holocene coastal lowland.
- To determine the duration of minerogenic sedimentation and variations in the rates of sedimentation in relation to relative sea-level change during the depositional history.

Rela	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 Core was sampled using a 3cm gauge corer to a depth of 3.88m How has it been stored? Eg double bagged in polythene in cardboard box The cores were stored in 1m gutter sections upon extraction, wrapped for transport back to the lab were they were sub-sampled and refrigerated. 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 Tel 020 7973 3299 London Fax 020 7973 3330

W1S 2ET Email alex.bayliss@english-heritage.org.uk