ENGLISH HERITAGE

Centre for Archaeology Scientific Dating Service

Details of Radiocarbon Sample

For Dating Lab use Lab No			
Result			
$\delta^{I3}C$:			
$\delta^{l^5}N$:			
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			Hengrave							
Name or code of series			Hengrave							
Your sample reference			Hengrave 26cm							
Type of mater	rial Pl	ease mark v	vith X							
Animal bone		Charcoal		L	eather	Shell		Water		
Antler		Fabric	Pear		•	Slag		Wood		
Bone		Grain	Grain		lant macrofossil	Soil				
Carbonised residu	ıe	Human b	Human bone		ediment	Thatch				
Specific identi	Specific identification			Weight o			sampl	e		
eg left tibia, Quercus sp., sapwood,						eg less than :	5g			
Name of person carrying			Date ide		Date iden	tified				
out identification and										
institution affiliated to										
Collector's name			Dr Tom Hill		Date collected		July 2006			
Submitter's name			Dr Ben Gearey		Date subn	nitted	October 2006			
Estimated arc	haeolo	gical per	iod Plea	ase	mark with X					
Palaeolithic	Until 10,000 BP			Post medieval		1540 – 1955 cal AD			X	
Mesolithic	10,000 BP – 4,000 cal BC				Holocene					
Neolithic	4,000 – 2,500 cal BC				GS-1 (Younger Drya					
Bronze Age	2,500 – 600 cal BC				GI-1a (Allerød)					
Iron Age	cal BC 600 – 43 cal AD				GI-1b+c (Older Drya					
Roman	43 – 410 cal AD				GI–1d+e (Bølling)					
Early medieval	410 – 1066 cal AD				GS–2 (Middle Weichselian)					
Medieval	Medieval 1066 – 1540 cal AD									

For AML use AML approval AML no

Financial year Deadline

Notes for dating laboratory

Context					
Was the sample	Х	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	Х	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 possible palaeochannel within the floodplain of the River Lark, proximal to Hengrave. The lack of palaeoenvironmental research undertaken within the region resulted in the site being chosen for further analysis. A sedimentary core, representative of the Hengrave floodplain stratigraphic archive, was sampled:

0-24	Dark brown very well humified peat, occasional sand and silt
24-60	Grey-brown herbaceous very well humified silty peat
60-100	Dark brown/red-brown herbaceous humified peat with occasional wood
100-151	Dark brown/grey-brown herbaceous well humified silty peat
151-164	Dark grey-brown herbaceous very well humified slightly sandy peat
164-200	Dark grey-brown herbaceous well humified sandy peat with occasional sand
	horizons
200-300	Dark brown/grey-brown very herbaceous humified slightly silty peat with
	occasional wood fragments.

Sample Hengrave 26cm was taken from the top of a herbaceous 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 River Lark catchment is comprised predominantly of glaciofluvial drift.

The stratigraphy and sedimentology of the deposits suggests the area infilled naturally through biogenic in-situ sedimentation. The variation in minerogenic content within the peat units suggests changing environmental conditions during the development of the stratigraphic archive. The natural water table was located c. 0.8m 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 (δ^{15} N 6.2).

- To determine the timescale involved for in-situ organic sedimentation in the valley floodplain of the River Lark.
- To determine the duration of sedimentation and variations in the rates of sedimentation during the depositional history.

Rela	Relationship of sample to objective Please mark with X					
х	Certain	The sample came from the object itself eg skeleton in grave				
	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 eg				
		bone fragments in grave				
Esti	Estimated age of sample at death Please mark with X					
Х	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*

Sedimentary core was extracted using a 7cm Russian Corer

How has it been stored? *Eg double bagged in polythene in cardboard box*

The core was extracted an preserved in 1m guttering sections, wrapped and transported to the laboratory for sub-sampling and refrigeration storage

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

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