GREAT YARMOUTH - Clay samples

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Twelve samples taken from clay floors and ovens at various levels on the site ware examined in an attempt to determine their origin. According to Mr. W. Corbett of the Seil Survey there are three possible local sources of clay; the chalky boulder clay from just inland, the sandy clays of the Norwich brick earths which outcrop on the ceast a few miles south of Great Yarmonth and alluvial clays from the river.

The samples were examined visually both before and after firing to about 700°C in an exidising atmosphere.⁽¹⁾ One sample, no. 350, was X-rayed "edge on" to see if the darker layers in it were due to iron deposition. No definite X-ray epaque layer was noted, although the laminar structure of the deposit was clearly shown. The dark bands in this and some of the ether samples are therefore most likely due to staining by organis matter.

As can be seen from the table below over half the samples were chalky, although some (Group D) were far finer textured than others (Group B). The non-calcareous deposits were also divided on a texture basis, Group C being finer than the one sample which comprised Group A. This sample also contained far less iron than any of the others.

Table of results

Site ne.	Calcarseus	Texture	Greup	State as submitted
68	ne	finer	С	impired
163	уев	Cearser	В	impired part fired
210	ne	Cearser	А	4
249	yes	Cearser	В	totally fired ungived part fired ungived
296	yes	finer	D	injired
308	ne	finer	C	part fired
312	yas	Cearser	В	ungived
350	yes	Cearsor	В	•4
438	yes	finer	D	part fired
455	yes	finer	D	port fired ungived
456	yes	finer	D	
457	nė	finer	C	

Group B are almost certainly chalky boulder clays. Group D, while still being calcareeus, are of a far finer and more even texture which would tend te indicate water serting. They may well be beulder clays rewerked by the river and so could be described as alluvial. Group C are non-calcareous clays, probably of alluvial origin. Sample 210 (Group A) may represent the Norwich brick earths or it could come from a coarser alluvial deposit. Without comparative material of known origin it is difficult to be more precise in assigning a source to any of the groups of material examined.

Reference

(1) Biek, L. (1963) Archaeology and the microscope.