

Reports from the Environmental Archaeology Unit, York 2000/56, 92pp.

**Technical Report: Plant remains from excavations
at Flixborough, N. Lincolnshire (site code: FLX89)**

by

Allan Hall

Summary

Plant remains from occupation deposits mainly of Middle to Late Saxon (7th-11th century) date at Flixborough, N. Lincolnshire, were sparse and almost all preserved by charring.

Together with charcoal from a limited range of taxa, there were some fruits and seeds and vegetative fragments which included a few cultivated plants, but which predominantly consisted of remains likely to have originated in saltmarsh.

Routes by which the plant remains are likely to have arrived at the site and their significance for site interpretation are discussed.

Keywords: FLIXBOROUGH; NORTH LINCOLNSHIRE; ANGLIAN; CHARRED PLANT REMAINS; SALTMARSH PLANTS

Author's address:

Environmental Archaeology Unit
Department of Biology
University of York
PO Box 373
York YO10 5YW

Prepared for:

Humber Archaeology Partnership
The Old School
Northumberland Avenue
Kingston-upon-Hull HU2 0LN

Telephone: (01904) 433851/433846

Fax: (01904) 433850

13 September 2000

Technical Report: Plant remains from excavations at Flixborough, N. Lincolnshire (site code: FLX89)

Introduction

Excavations at a site near Flixborough, N. Lincolnshire (NGR SE876143), by the Humberside Archaeology Unit (now Humber Archaeology Partnership) took place in 1989-91. They revealed—within thick deposits of blown sand—abundant evidence for occupation in the Anglian period (7th-early 11th centuries), with some traces of earlier and later material. The deposits were a rich source, in particular, of artefacts and vertebrate remains, though bioarchaeological assessments (Dobney *et al.* 1993; 1994; Hall and Milles 1993; Loveluck and Dobney 1998) suggested that plant remains were sparse and limited to low concentrations of charred material. However, given the international importance of the site and the possibility that archaeobotanical studies would shed some light on certain aspects of the site's environment and economy, a modest programme of study of plant remains was undertaken in the period 1998-2000.

The site was well sampled: there were, in all, 1759 samples of whole sediment, of which 1086 were BSs (*sensu* Dobney *et al.* 1992) and 673 GBAs. In most cases, a 2 kg 'voucher' of a BS sample was retained and these sometimes served to stand as GBAs for contexts where no GBA had been collected or where a GBA could not be retrieved from store.

The 1759 samples represented 1274 contexts and 341 phase/feature type combinations; for some contexts, several samples had been collected to represent different parts of an extensive feature. Most samples were from deposits eventually assigned to the Anglian phases of occupation (only 63 samples, from the same number of contexts, were either of earlier or later date, or of uncertain date). Moreover, at the time of the latest analyses, a total of 401 GBAs and 676 BS/GBAs (61% of all the samples taken together, representing 741, or 58%, of the contexts) were designated as having a narrowly-defined phase (e.g. '1', '6'), the

remainder being phased more broadly, or with some degree of uncertainty (e.g. '1-4', '5a/6?')—though from a wider chronological perspective they were mostly still narrowly dated as 'mid-late Saxon'.

Such a large number of phase/feature type combinations made selection of material for assessment of plant (or indeed other) remains very difficult, the more so because, in the hand, most of the samples consisted of unconsolidated sand, varying mainly in colour but little in texture. Their very variable content of charcoal, ash, and bone often only became apparent when disaggregation commenced. A system of assigning priorities on the basis of tightness of dating and nature of context was employed to facilitate selection.

In addition to the BS/GBA samples, a small number of 'spot' finds, mostly of charcoal, were examined; the results are included in the tables within this report.

Methods

Plants remains were examined from a total of 560 samples (or subsamples) of various kinds, representing 386 contexts (Table 1). The types of samples investigated were:

dried washovers and residues from samples of 4-25 kg (but usually of about 20 kg) bulk-sieved to 1 mm during excavation; these samples are designated 'BS', and bear the subsample coding /BS or /BS2 in the data tables in the archives and this report; these represent subsamples examined during the assessments and 'main phase', respectively;

subsamples of unprocessed sediment of 0.75-5 kg (but usually of 1-3 kg) from the GBA samples or BS 'vouchers' (see above) sieved in the laboratory to 300 μ m; these bear the subsample coding /T or /T2, representing

subsamples examined during the assessments and 'main phase', respectively;

charcoal and other remains collected on site ('spot' finds), with the subsample coding /SPT, or material collected during sorting for bone from certain BS samples which were not examined otherwise for plant remains.

Techniques for examining the plant remains and other components in the samples broadly followed those of Kenward *et al.* (1980), using a 'washover' from the GBA subsamples to concentrate plant material. Material was examined using a binocular microscope, with a scanning electron microscope used to obtain photomicrographs (Figs. 1-4) and look for diagnostic superficial tissues.

In all cases, records of plant remains and of other components of the samples (at the level of 'sand', 'ash concretions', 'bone fragments', and so on), were entered into a computer database during or shortly after recording, with a subjective quantification as follows: for BS and spot samples, a three-point scale from 1 (one or a few fragments or individuals) to 3 (many individuals or a significant component of the deposit); and for the GBA subsamples, an equivalent four-point scale. Note that, for samples examined earlier in the project, recording of non-plant material is likely to be less detailed than for samples examined latterly, and that for the bulk-sieved samples it was usually the washover alone which was examined closely for plant remains, the residues having been found, during assessment, usually to contain no more than a little charcoal.

To investigate the nature of the sediments at Flixborough a little further, some additional tests were carried out on a series of 105 GBA samples during the second stage of assessment. Subsamples of about 50g of unprocessed sediment were disaggregated in about 0.5 litre of water in a 1 litre measuring cylinder and a semi-quantitative measure (on a four-point scale from 0 to 3) made for a number of parameters after a few minutes: the quantity of charcoal floating at the meniscus, the quantity settling, the quantity of fine (probably smaller than fine sand grade) sediment settling,

and the degree of turbidity of the column of water. Degree of calcareousness of the unprocessed sediment was also measured on a similar scale, via the effervescence resulting from addition of a few cm³ of dilute hydrochloric acid.

Results

The scale of the investigations may be judged from Table 1 in which the numbers of contexts and samples examined are presented by phase and context type (Table 1a); the numbers and nature of contexts not examined may be comprehended from Table 1b. A complete list of plant taxa recorded from the deposits at Flixborough is given in Table 2, whilst lists of plant remains and other components of the deposits are shown, in context and sample order in Table 3. Tables 4-9 present selected data concerning particular groups of taxa or kinds of remains.

As noted previously, all the plant material had been preserved by charring with the exception of a few uncharred propagules (which are suspected of being of recent origin) and some mineral-replaced and 'silicified' material. The last category included exocarp of spike-rush (*Eleocharis palustris* s.l.) nutlets (from two samples from the same context), and silicified herbaceous detritus (from a third). Such material is also the product of burning, though the precise circumstances under which silicification occurs remain obscure (it is discussed by Robinson and Straker 1990); it seems likely that such delicate tissues are reduced to a siliceous skeleton only where they are well protected within the sediment in which they are buried.

With the exception of charcoal (recorded in nearly 80% of the contexts examined), charred plant material was sparse. After charcoal, the next most frequently recorded category was 'pinched' stems (for a discussion of these and other items marked '\$' in Table 2, see below), recorded from 9% of contexts, then 'charred herbaceous detritus' (7%) and unidentified cereal grains and rush (*Juncus*) capsules (both 5%). Only those few (21) contexts shown in Table 4 are considered to have yielded assemblages of plant remains worthy of individual

discussion. However, because of multiple sampling of many of these deposits, the number of assemblages is somewhat larger (29).

The volumes of charred plant material in the samples were small—usually only a few cubic centimetres of material in samples typically of 10-15 kg—and wood charcoal, again, predominated. Thus, as Table 5 shows, there were very few records for any material at an abundance score of 2 (which represents moderate amounts for a bulk-sieved sample where a three-point scale of abundance was used, and rather less significant amounts for a GBA subsample, where a four-point scale was employed).

There is no particular pattern to where the larger assemblages of plant remains were found, except inasmuch as they tended to be in the ash- and bone-rich dumps (notably **3758** in Phase 4ii and **5983** in 3biv), and in the fills of pits and postholes (it should be noted that all of these were amongst the top five most frequently recorded context types at this site).

There was also considerable spatial variation within layers for which more than one sample was examined (compare the lists for material from samples from Context **5983** in Table 3). Sample type also affected the results: GBA subsamples, not surprisingly, tended to yield very much less plant material than bulk-sieved samples from the same contexts and, for this particular site, were of very limited value as a route to recovery of plant remains, though they offered an opportunity to examine the finer (0.3-1.0 mm) fraction which had been lost during bulk-sieving.

In terms of distribution through time, the assemblages listed in Table 4 were recorded from deposits of Phase 2 to Phase 7 date with no particular pattern.

Turning now to the actual plant remains and other components recorded, it is convenient to consider a series of groups:

(a) charcoal

Where charcoal was identified to genus (in the case of numerous spot finds and some of the larger fragments from bulk-sieved and GBA samples), by the far the greatest part was oak, *Quercus*. It was recorded from 21% of contexts and most of the larger fragments of charcoal proved to be this species, including small find 6178 from Context **6136** and spot samples 2404 (Context **2224**) and 4705 (**1984**). Where *Quercus* charcoal was measured, it was mostly in the size range 10-30 mm but there was one case where at least one fragment exceeded 100 mm (Sample 4705) and one with a fragment as large as 160 mm (Sample 2404).

The other taxa identified as charcoal were hazel (in 7% of contexts) and willow/poplar/aspen (5%) with <5% each of ash, alder, ?birch and ?Pomoideae (the last taxon including apple, pear, rowan, and hawthorn). There was a single record (from Context **4920**) for charred coniferous wood, probably pine (*Pinus*), though the fragments had an appearance like cinders with strong vitrification and distortion of the wood structure, and it was not possible to make a closer identification.

(b) ‘charred herbaceous detritus’

At an early stage in the examination of the washovers from the bulk-sieved samples from Flixborough it was noted that many ‘washovers’ contained needle-like charred plant stems, mostly no more than a millimetre in diameter (and often as little as 0.3-0.5 mm diameter) and up to about 10 mm in length. Some clearly bore stem nodes (Fig. 1(e, j, k)) and were variously recorded as being from grasses and/or cereals (altogether these were recorded in 12 contexts, always at an abundance of ‘1’). Some other specimens were recognised as having a characteristic ‘pinching’ at one end, presumably at the point of attachment of the structure to another organ or at a stem node (Fig. 1(l, m)). Exceptionally, examples were found with an intact branched structure (Fig. 1(f-i)).

Microscopic examination with reflected light and using a scanning electron microscope failed to

demonstrate the survival of any distinguishing epidermal characters (Fig. 1(a-c)) though it seemed most likely that the material came from rushes (*Juncus*), spike-rushes (*Eleocharis*) or grasses (Gramineae).

Although a comprehensive examination of specially prepared charred reference material of grasses, rushes and other possible candidates was impractical, it was found that the bases of some rush stems were narrowed at the point of attachment to the roots whilst the branching stalks of rush inflorescences were narrowed somewhat at their point of insertion, either around the whole circumference (as in Fig. 1(l)) or on one side (Fig. 1(m)). Given the slender nature of the 'pinched' stems, the culms (stems) of larger rushes such as *Juncus effusus*, *J. conglomeratus* or *J. inflexus*, or even mud rush, *Juncus gerardi*, can probably be discounted. The fossils are, however, rather similar to modern reference material of the inflorescence stems of *J. gerardi* or the culms of small rushes like toad-rush, *J. bufonius*, charred in the laboratory to mimic the fossils. (It should be noted, however, that none of the charred rush capsules and seeds resembled those of *J. bufonius*).

Though no definitive identification of the fragments with branches was been possible, they were found to be rather similar to culm material of the saltmarsh grass *Puccinellia maritima* and, indeed, it is possible that the 'pinched' stems with a flattened end (cf. Fig. 1(m)) also belong to this plant. (*P. maritima* is characterised by having many rather procumbent shoots, as well as creeping stolons, with leaves tending to arise from the upper side.)

Where these plant stem fragments had no particular characteristic they were simply recorded as 'charred herbaceous detritus'; this category was present in 7% of contexts. As for the other stem material, they lacked any epidermis which might give a clue as to their taxonomic affinities but again they seem most likely to be from rushes or grasses (none had the three-sided conformation characteristic of most members of the sedge family, Cyperaceae).

(c) 'identifiable' plant remains

This category comprises propagules of a small range of taxa (see first part of Table 2) of which even the most frequent (unidentified cereals) were recorded in less than 7% of contexts examined by means of BS or GBA samples. The other more frequent taxa were rush (*Juncus*) capsules (Fig. 2), barley grains, grass fruits, uncharred fat-hen (*Chenopodium album*) seeds, charred hazel (*Corylus*) nutshell, sedge (*Carex*) nutlets, bread/club wheat grains, spike-rush (*Eleocharis*) nutlets (Fig. 3) and sea plantain (*Plantago maritima*) capsules (Fig. 4). All other taxa were present in less than 2% of contexts.

For the most part (though with the exception of many of the cereal grains), the remains were rather well preserved and did not give an impression of having been reworked. Many of the plantain capsules (which are delicate structures) contained seeds (Fig. 4(c)), permitting their secure identification to species. So too did the capsules of *Juncus*, although identification of the seeds was difficult. In some cases, it is suspected that the mud rush, *J. gerardi* L. is the species concerned (Fig. 2(c, d)). The exocarp of many of the spike-rush nutlets was in a pristine condition and the barbed perianth segments, here in the form of bristles, were also preserved (cf. Fig. 3).

Looking in more detail at those assemblages with more than a very few plant remains (Table 4), the material from the single post-Anglian (Phase 7) context in this group is, perhaps not surprisingly, rather different from most of the remainder, being characterised by the presence of some taxa likely to have been cornfield weeds. This assemblage included the only remains of corncockle (*Agrostemma githago*), stinking mayweed (*Anthemis cotula*), hemp nettle (*Galeopsis* sp.), *Centaurea* sp. and corn-salad (*Valerianella dentata*) from the site as a whole, and also yielded moderate numbers of very poorly preserved (and thus unidentifiable) charred cereal grains (an estimate of abundance of 'low hundreds' in a sample of 15 kg). This assemblage is perhaps most likely to have formed from the disposal of grain or from the burning of straw. The presence of traces of cereal coleoptiles (shoots) indicates that some

germination took place before charring, though the reason for this (deliberate, through malting, for example, or accidental, through damp storage or germination on the ear in a wet harvest season) can only be guessed at.

No other assemblage produced quite this kind of group of taxa, having at most the occasional record of a cornfield weed or some grain, always in small amounts. The only assemblages with more than two separate identifications of cereal taxa (excluding records for 'Cerealia' indet.) are listed in Table 6.

Selecting only those assemblages with cereal remains (of any kind) present, examination of the other plant remains indicates that for just under half there were also records for 'pinched' stems and for 41% there were records of charred rush capsules, though these were also recorded in almost as many other deposits *without* cereal remains, so their coincidence is not especially high and certainly not significant.

Few plants likely to have been used for food or some other domestic purpose, other than cereals, were recorded at Flixborough. As Tables 7 and 8 show, there were small numbers of records for charred hazel nutshell, for fragmentary charred fruitstones of *Prunus insititia* (probably large 'bullace' rather than domesticated 'plum'), and for seeds of flax (linseed); there was a single record for hempseed (*Cannabis*).

(d) other charred plant material

In this category we may consider fragments of charred rhizome/roots fragments (in 6 contexts) and charred fucoid seaweed lamina (in 4+?2 contexts).

Unless they became charred within a living turf underneath a fire, the root/rhizome material may well have arrived in turves, being charred accidentally (e.g. in turves used in a building which was subsequently destroyed by fire), or because the turves had been used as low-grade fuel or in the construction of a hearth or oven.

The seaweed may well have arrived incidentally with raw materials from the coast—it may become entangled in saltmarsh plants, for example, or grow in saltmarsh in its own right (cf. Adam 1990, 97ff.; most of the taxa he lists are not the fucoids thought to be represented by the fossil material at Flixborough, however). There is a further possibility that the seaweed was brought as a resource in its own right as a source of alkali, or as fertilizer or animal feed (cf. Newton 1951, Ch. II-III) (the last is a use also mentioned, for example, by Clark (1952, 90) with respect to the prehistoric period). In one case, a sample from Context 5369, a Period 2-3a dump, there were traces of what appeared to be spirorbid shells, likely to have arrived as seaweed epibionts (a similar association of charred seaweed and spirorbids has been recorded, for example, from Early Christian deposits at Deer Park Farms, Co. Antrim, N. Ireland by Kenward *et al.* 2000)

(e) other components

A number of items recorded from the samples during the analysis of plant remains require comment or explanation. The first group are all thought to be associated with burning of plant material and comprise 'ash beads', ash concretions, and 'char' (some of this material was previously noted by Canti (1992) during examination of sediments at this site.) The 'glassy slag', in lumps as big as 60 mm may also be related to this. The second comprises other kinds of concretions. Thirdly, a consideration of some other aspects of the nature of the sediments is discussed.

The beads consisted of small (usually <3 mm), more or less spherical vesicular structures which must have been liquid at some point. They are probably formed when plant material is burnt as silica becomes fused in the presence of alkalis from plant tissues, though their chemistry remains to be studied.

The concretions (found in 8% of the contexts examined, sometimes in large amounts) comprised amorphous lumps of brittle greyish or whitish material often with small fragments of charred plant material visible, including the plant stems

mentioned in section (a), above. Indeed, of the 30 contexts in which these concretions were recorded, 17 also yielded one or more of charred herbaceous detritus, 'pinched' stems, or remains of sea plantain, ?*Puccinellia*, *Suaeda* or *Juncus*. Indeed, in several cases (Table 9), one or more of 'ash beads', ash, or ash concretions, and these charred plant remains were well represented; certainly deposits rich in 'ash' of some kind were also productive of charred plant remains including material likely to have originated in saltmarsh.

'Char' is a term used for amorphous fragments of charred organic material which, in some cases (though not here), represents bituminous exudate from the burning of coal. Another likely source for such material is wood and, at this site at least, seaweed might be another. There were two records of 'char', both from Phase 5b deposits (but both in trace amounts only). Other unidentified but clearly charred material was recorded from two dump contexts, one from Phase 4ii, the other Phase 56-6i; this was listed as ?charred bread, but its identification has not been pursued. In a sample from one of the dumps, it reached an abundance of 2 on a three-point scale.

Concretions other than those clearly formed of ash were noted in many contexts, occasionally in modest or significant amounts. Some, listed as 'lime' concretions—from 72 deposits—may be fragments of tufa (itself noted in 7+?7 cases, with a further four instances where 'lime/tufa' was recorded), or lime mortar, or slaked lime which had recrystallised. There were also some examples of material recorded simply as 'concretions' or 'concreted sediment' and, in two cases, as tentatively identified faecal concretions. The last were from Contexts **4748** (a Phase 3bi-3bv post hole fill associated with building 1b) and **534**, a Phase 7 'dark soil' layer.

The last aspect of the deposits examined in this part of the project concerns the finer components of the sediments. Although in the hand most seemed to consist of sand, there were variable amounts of finer material and an attempt to characterise this in a rather crude way was undertaken during the second of the assessment exercises in 1998. For this, 105 subsamples were

taken from GBA samples from across the range of phases and context types and the following recorded:

- colour
- texture
- inclusions
- degree of calcareousness (assessed with dilute hydrochloric acid)
- charcoal content
- content of fine sediment

The last two variables were recorded by disaggregating about 50 g of sediment in a litre of water in a large measuring cylinder and observing the following:

- quantity of charcoal, both floating and sinking
- quantity of fine sediment settling on top of the sand
- degree of turbidity of the supernatant after about 10 minutes

Some results of these analyses are given in Tables 11-13. Although the dataset is too small to check for pattern across the whole range of context types and phases, certain context types seem more often than not to have included fine material and/or to have been calcareous. It is likely that at least some of this fine sediment was ash although of course the test for calcium carbonate does not distinguish lime from any of a number of separate sources.

To these data have been added, in Table 13, records for a suite of charred plant remains which, it is argued below, must represent some kind of raw material regularly brought to the site and either burnt deliberately or accidentally.

Discussion

The formation of the deposits and plant assemblages

Though the bulk of the matrix of the deposits through the whole sequence at Flixborough was blown sand, many contexts clearly had a considerable component of bone, shell and burnt material, including charcoal and ash. The fires which led to the formation of the charcoal and ash

were no doubt also responsible for the charring (and thus survival) of the other plant remains at this site. For the most part, however, the burning presumably did not take place in the position where the charred remains were found (most being in dumps or feature fills rather than deposits associated directly with hearths or ovens).

This being so, it is important to consider the nature of the plant material which was burnt since it is clearly of an unusual kind, with such low concentrations of cereals, an absence of chaff, and a dearth of crop weeds, but a characteristic suite of remains, including charred herbaceous stems (perhaps from grasses and rushes), rush seed capsules, and some saltmarsh plants, of which the most frequent was sea plantain.

It seems most likely these remains wholly or largely originated in an area of saltmarsh, perhaps from the middle parts of the vertical zonation (cf. Rodwell 2000, 17ff.) if, for example, the plant association represented is the *Puccinellietum* (a rather species poor community in which *Puccinellia* and *Plantago maritima* are prominent, *ibid.*, 55ff.) or the slightly higher *Juncus maritimus-Triglochin maritima* or *Festuca rubra* communities (*ibid.*, 72-83). (For reasons discussed by Adam (*ibid.*, 51) it is difficult to translate this precisely to a height in relation to Ordnance Datum, but these are plant communities likely to be flooded by seawater at least once or twice a day through much of the year.) It is unfortunate, in this respect, that the charred rush capsules have not been identified to species, though if *J. gerardi* is present, as suggested by the seed shown in Fig. 2(c-d), it would represent another typical denizen of middle and upper saltmarsh communities.

An assemblage from Context **5983** (Sample 10220/BS) perhaps provides one of the best examples of a group largely, if not wholly, originating in saltmarsh. Together with tentatively identified culm of *Puccinellia maritima* and capsules of *Plantago maritima*, there were traces of several plants which could easily have grown in saltmarsh, though they are certainly not indicators of it, by themselves—silverweed (*Potentilla anserina*), black medick (*Medicago lupulina*), hairy buttercup (*Ranunculus sardous*) and spike-

rush (*Eleocharis palustris*). Also present in the sample were moderate amounts of both ‘pinched’ stems and charred herbaceous detritus, of ash, concretions, and ‘glassy slag’, and traces of charred rush capsules. If these additional identified taxa were added to the list used to generate Table 9, the score in the last column (CP) for this sample would be considerably higher.

Strong corroborative evidence for saltmarsh as principal source for the plant remains comes from the records for the snail *Hydrobia ulvae* (Pennant) (Carrott 2000), some, at least, of which had been charred. This species, typical of saltmarsh habitats, was found in four contexts, of which all also yielded remains of saltmarsh plants (Table 10).

If this explanation for the source of these remains is correct, it is pertinent to ask how and why they were brought to the site. A number of possibilities immediately spring to mind:

- (a) they arrived in **cut vegetation** for roofs or floors, or as hay, or bedding, or as packing for goods or live shellfish;
- (b) they arrived as plant remains brought with **turves**, or incidentally with or deliberately mixed in what was primarily **mineral sediment** intended, for example, to make daub;
- (c) they were plant remains within vertebrate **guts** or in herbivore **dung** (the dung being collected deliberately for burning or some other purpose, or deposited by livestock at the site);
- (d) they represent plants **growing on the site**, remains of which were burnt incidentally underneath fires.

The last of these is perhaps the least likely. For these plant remains to have originated in vegetation growing at the site seems ecologically improbable. The generally well-drained sands at Flixborough are unlikely to have supported plants such as sea plantain which, in Britain today, is confined to maritime habitats. If the *Puccinellia* is correctly identified, this, too, would surely not have grown nearer Flixborough than the tidal reaches of the Humber, or perhaps the lowermost

stretch of the Trent (though there are a few records of it from inland habitats, always where there is a saline influence). It is true that the finer plant stems might have come from a rush such as toad-rush (*Juncus bufonius*), a species observed at the site in 1999, growing in quantity around pools left by the excavation and sand extraction, but this does not help to explain the presence of the saltmarsh taxa.

The third explanation—at least so far as dung is concerned—also seems improbable, since the charred herbaceous plant material had evidently been charred when dried and uncompressed. Plant fragments from burnt dung might be expected to have collapsed prior to charring and, in particular, to have survived in clumps rather than as discrete charred plant fragments, often dispersed within lumps of ash. There is, otherwise, no reason to suppose the saltmarsh plants might not have been grazed by livestock; as Johnson and Sowerby (1862) observed, ‘The sea plantain is so greatly relished by sheep that the Welsh call it Llys y Defaid - Sheeps-herb. In the time of Pennant [mid 18th century] it was commonly cultivated in North Wales mingled with clover.’

Another possibility which ought to be explored further, however, is that these remains arrived in the crops of geese feeding on saltmarsh. Freshly ingested plant material, before it reached the gizzard, might well be present in a relatively undamaged state, though it would probably need to have dried before charring.

The arrival of the plant remains in cut vegetation as litter or thatch may probably also be discounted. The remains are from stems probably rather too slender to have served for thatching, and, if they are flower stalks, one might have expected more of the larger material from the lower parts of the plants to have survived, too. There is also a notable absence of seeds from taller-growing plants which might be found in hay meadows, reed-beds or in other places where vegetation suitable for cutting for this purpose might be collected.

Moreover, the parts of saltmarshes most likely to have yielded these remains are traditionally grazed

(when not immersed by the sea!) but they are not conventionally used to cut a ‘hay’ crop. On the other hand, the more heavily grazed swards might easily yield turves, and in this case one might expect a larger content of silt and clay in the deposits rich in ash containing these saltmarsh plant remains. Insofar as the analyses permit this to be tested, it is clear from Table 13 that, with one exception, all the contexts for which a crude measure of turbidity and fine sediment content were measured and from which remains of one or more saltmarsh plants were recorded, scored at least moderately well for levels of either turbidity and/or fine sediment content. Had turves been brought, however, one might expect more remains of the basal parts of the plants growing on them. Had the plant material arrived in saltmarsh clay for daub, or had they become incorporated into daub during mixing, in the way that straw is traditionally used, it is then difficult to see how they might then become charred and freed from the daub matrix. (Material listed as daub, ?daub or baked clay/daub was frequently recorded—it was present in 25% of contexts, and at least moderately abundant in 4%—but charred plant remains were not noted from the lumps. Here, examination of clay lumps for diatoms or foraminiferans, for example, might help in indicating the location of sources for the clay.)

As to the nearest location of saltmarsh to the site, it seems reasonable to suggest that it may have existed along the tidal reaches of the Trent, perhaps only a matter of a few hundred metres to the W of the site.

The wider context

For comparanda for the results from Flixborough we may look to late prehistoric and early medieval coastal sites in the Netherlands and N.W. Germany, though at these preservation of plant remains by anoxic waterlogging is quantitatively much more important than is charring. Thus saltmarsh plants were abundant in deposits from the Iron Age Feddersen Wierde in N.W. Germany (Körber-Grohne 1967) and from a series of Iron Age and medieval sites in the northern Netherlands (van Zeist 1974). There, the

habitation mounds (*terp* or *Wurt*) included many layers clearly composed of sediment dug from the nearby saltmarsh as well as layers rich in plant remains interpreted as stable manure or dung, of which a large proportion were uncharred remains of saltmarsh plants. No assemblages like those from Flixborough were reported, however; samples rich in charred remains from the Feddersen Wierde contained quantities of crop weed seeds as well as cereal grains and chaff, though charred fossils from saltmarsh plants were present too (they were so widespread across the site during its life as to be incorporated into most of the deposits as they formed).

More recently, Buurman (1999) has described a rich assemblage of plant remains including many saltmarsh taxa (some of which were, again, charred) from the fill of a pit at a site at Schagen in North Holland. She concludes (p. 286) that the material was a mixture of 'dung, animal fodder, litter and household debris', with complete uncharred fruits and perhaps also stems of *Juncus gerardi* and fruit stalks and seed capsules of *Plantago maritima*, interpreted—along with many other taxa—as representing hay rather than being deposited in dung (since they would, she avers, have been changed by passage through the herbivore). Moreover, she records fragments of amorphous organic material which she suggests might be dung.

Concluding remarks

Though the plant remains from the Anglian deposits at Flixborough are sparse they pose some intriguing problems of interpretation. The lack or rarity of remains of certain kinds of plants normally commonly encountered on rural occupation sites (crop weeds and remains of the crop plants themselves) is striking and—if non-preservation can be discounted as the reason for their absence—suggests a site where agriculture played no part. Clearly, whatever the reason the saltmarsh plants were brought to the site, they arrived repeatedly over most of the period of Anglian activity (assuming no more than a little reworking) and it is difficult to believe that they

were not brought, either in their own right, or with some other resource, for a particular purpose

Acknowledgements

The author is grateful to Dr C. P. Loveluck (HAP), and to colleagues at the EAU (especially Debs Jaques and John Carrott of Palaeoecology Research Services, and Harry Kenward and Dr Keith Dobney) for variously providing information about the excavation and discussions concerning the significance of the plant remains. Meg Stark, Sue Sparrow and Phil Roberts of the photographic department of the Department of Biology, University of York, provided much valuable assistance in the procuring, processing and printing of the images in the figures.

References

- Adam, P. (1990). *Saltmarsh ecology*. Cambridge: University Press.
- Buurman, J. 1999. Plant remains from an early medieval site at Schagen, the Netherlands, pp. 279-90 in Sarfatij, H., Verwers, W. J. H. and Woltering, P. J. (eds.), *In discussion with the past. Archaeological studies present to W. A. van Es*. Zwolle/Amersfoort: Foundation for the Promotion of Archaeology (SPA)/Rijksdienst voor het Oudheidkundig Bodemonderzoek.
- Canti, M. G. (1992). Research into natural and anthropogenic deposits from the excavations at Flixborough, Humberside. *Ancient Monuments Laboratory Report* 53/92.
- Carrott, J. (2000). Mollusc remains (other than shellfish) recorded from bulk sediment samples from excavations at Flixborough, North Lincolnshire (site code: FLX89). *Reports from the Environmental Archaeology Unit, York* 2000/55.
- Clark, J. G. D. (1952). *Prehistoric Europe. The economic basis*. London: Methuen.
- Dobney, K., Hall, A. R., Kenward, H. K. and Milles, A. (1992). A working classification of

- sample types for environmental archaeology. *Circaea, the Journal of the Association for Environmental Archaeology* **9** (for 1991), 24-6.
- Dobney, K., Hall, A., Kenward, H. and Milles, A. (1993). *Material assessment of sediment samples (GBA and BS) from Flixborough*. 12 pp. plus appendix 31 pp. Prepared for Humberside Archaeology Unit. [Reports from the Environmental Archaeology Unit, York **93/21**]
- Dobney, K., Hall, A., Kenward, H. and Milles, A. (1994). Integrated assessment of biological remains from excavations at Flixborough, S. Humberside. *Reports from the Environmental Archaeology Unit, York* **94/9**, 15 pp.
- Hall, A. and Milles, A. (1993). *Material assessment of hand-collected non-vertebrate remains from Flixborough*. 3 pp. Prepared for Humberside Archaeology Unit. [Reports from the Environmental Archaeology Unit, York **93/27**]
- Johnson, C. P. and Sowerby, J. E. (1862). *The useful plants of Great Britain*. London: Robert Hardwicke.
- Kenward, H., Hall, A. and Carrott, J. (2000). Draft publication text. Environment, activity and living conditions at Deer Park Farms, Co. Antrim, N. Ireland: evidence from plant and invertebrate remains. *Reports from the Environmental Archaeology Unit, York* **2000/57**.
- Kenward, H. K., Hall, A. R. and Jones, A. K. G. (1980). A tested set of techniques for the extraction of plant and animal macrofossils from waterlogged archaeological deposits. *Science and Archaeology* **22**, 3-15.
- Körber-Grohne, U. 1967. Geobotanische Untersuchungen auf der Feddersen Wierde. *Feddersen Wierde* **1**, 357 pp. Wiesbaden.
- Loveluck, C. P. and Dobney, K. (eds.) (1998). *Biological and artefact remains from Flixborough sediment samples. Assessment and updated project design for analysis*. Report prepared by Humber Field Archaeology, November 1998.
- Newton, L. (1951). *Seaweed utilisation*. London: Sampson Low.
- Robinson, M. and Straker, V. (1990). Silica skeletons of macroscopic plant remains from ash, pp. 3-13 in Renfrew, J. M. (ed.), *New light on early farming. Recent developments in palaeoethnobotany*. Edinburgh: University Press.
- Rodwell, J. (ed.) (2000). *British plant communities 5. Maritime communities and vegetation of open habitats*. Cambridge: University Press.
- Tutin, T. G. et al. (1964-80). *Flora Europaea 1-5*. Cambridge: University Press.
- van Zeist, W. (1974). Palaeobotanical studies of settlement sites in the coastal area of the Netherlands. *Palaeohistoria* **16**, 223-371 and figs.

List of tables and figures

<i>Table 1. (a) Numbers of contexts investigated in some way for plant remains, by phase and context type, from the deposits at Flixborough. (b) Numbers of contexts for which BS or GBA samples were available but which were not examined for plant remains in this study.</i>	13
<i>Table 2. Complete list of plant taxa (and other components) recorded from samples at Flixborough.</i>	24
<i>Table 3. Complete lists of plant remains and other components of the samples examined for plant material from Flixborough, in context and sample order (and within the lists, alphabetically).</i>	28
<i>Table 4. Contexts at Flixborough from which more than traces of charred plant remains were recovered in one or more samples.</i>	67
<i>Table 5. Numbers of records of taxa recorded from samples at Flixborough where the abundance score was greater than 1 (a trace); in all cases, the score was 2.</i>	68
<i>Table 6. Assemblages from Flixborough with more than two records for cereal remains.</i>	69
<i>Table 7. Assemblages from Flixborough with records for nutshell and fruitstones.</i>	69
<i>Table 8. Assemblages from Flixborough with records for flax and hemp.</i>	70
<i>Table 9. Contexts and samples from Flixborough with moderate to high concentrations of ash and related components, with a combined score, CP, for the abundance of selected charred plant remains.</i>	71
<i>Table 10. Contexts at Flixborough in which charred remains of saltmarsh plants and the saltmarsh snail <i>Hydrobia ulvae</i> were recorded.</i>	73
<i>Table 11. Results of analyses to test the nature of the sediments at Flixborough, with regard to degree of calcareousness, content of charcoal and other inclusions, and content of fine sediment.</i>	74
<i>Table 12. Numbers of contexts from Table 11 by parameter and score.</i>	87
<i>Table 13. Concentrations of charcoal, fine sediment and calcareousness and coincidence of charred plant remains perhaps from saltmarsh, amongst the contexts included in Tables 11-12.</i>	88
<i>Figure 1. Charred herbaceous stem fragments from Anglian deposits at Flixborough.</i>	92

*(a)-(c) fragments showing surfaces devoid of recognisable epidermis; (d) oblique view of end of fragment showing pith cavity and position of vascular bundles; (e) fragment with a 'node' (probably therefore a grass); (f) fragment with the remains of a branch insertion; (g)-(i) sequence of three photomicrographs of a single specimen of a branching grass culm, perhaps *Puccinellia maritima*; (j)-(k) stem fragments with probable nodes, perhaps from grasses; (l)-(m) stem fragments with 'pinched' ends, of two kinds.*

Sources for the material: (a)-(d), (f), (m) from Sample 10220, Context 5983, a Phase 3biv dump; (e) from Sample 6448, Context 6446, a Phase 3biv-3bv pit fill; (g)-(i) from Sample 10252, Context 5983; (j)-(l) from Sample 5524, Context 5369, a Phase 2-3a dump.

Figure 2. Charred remains of rush (*Juncus*) from Anglian deposits at Flixborough. 100

(a)-(b) whole and fragmentary capsules; (c)-(d) seed, showing detail of surface ornamentation: this is probably *J. gerardi*

Source for the material: Sample 10252, Context 5983, a Phase 3biv dump.

Figure 3. Charred remains of *Eleocharis palustris* (sensu lato) from Anglian deposits at Flixborough. 103

(a) whole nutlet; (b) detail of barbed bristle.

Source for the material: Sample 10220, Context 5983, a Phase 3biv dump.

Figure 4. Charred remains of sea plantain, *Plantago maritima*, from Anglian deposits at Flixborough. 105

(a)-(b) empty capsule; (c) capsule with remnants of two seeds.

Sources for the material: (a) Sample 10252, Context 5983, a Phase 3biv dump; (b) Sample 6448, Context 6446, a Phase 3biv-3bv pit fill; (c) Sample 5524, Context 5369, a Phase 2-3a dump.

Table 1. (a) Numbers of contexts investigated in some way for plant remains, by phase and context type, from the deposits at Flixborough. Figures in bold are contexts which were heavily sampled during excavation and for which five or more subsamples of any kind were examined (the number is given in parenthesis). Other figures in parenthesis are numbers of samples or subsamples in cases where more than one per context was examined. Samples examined during assessments are included, whether or not they were subsequently re-examined during the main analysis stage. Naturally, the total number of contexts examined for a given phase/context type combination may not equal the sum under the three sample headings, since for some contexts more than one type of sample was seen.

(b) Numbers of contexts for which BS or GBA samples were available but which were not examined for plant remains in this study.

(a)

Phase and dating	Buildings	Context type	No. contexts examined by:			
			BS	GBA	SPOT	Total
0 (pre-Saxon)		natural	1			1
		natural interface	1			1
		turfline		2		2
1a (7 th century)		pit fill	2	2		4
		posthole fill	1			1
	16	posthole fill	3	1		4
1a-1b		pit fill		1		1
1b (mid-late 7 th century)	18	occupation deposit (floor)	1			1
		posthole fill	2	4		6
	19	posthole fill		1		1
1b-2		posthole fill	1			1
2 (late 7 th -early 8 th century)		occupation deposit	1	1		2
		pit fill	1			1
		posthole fill	2			2
		soakaway fill	4(8)	4(6)	1	7
	11	beam slot fill	1	1		2
		posthole fill		1		1
		trench fill	1	2		2
	20	occupation deposit (floor)	1(2)			1
posthole fill		3	2	2	7	
2-3a		dump	1(3)	1	1	1

Phase and dating	Buildings	Context type	No. contexts examined by:			Total
			BS	GBA	SPOT	
		occupation deposit	1	1		2
		pit fill		1		1
	6	occupation deposit (floor/yard)	1(2)			1
		posthole fill	4	5	2	10
	17	posthole fill		1	1	2
	21	posthole fill	2			2
2-3bv		pit fill	1		2(3)	3
2-5a		pit fill	1			1
2i-4ii		ditch fill	13(19)	1		13
2?	11?	posthole fill	1			1
3a (early-mid 8 th century)		grave fill		1		1
		occupation deposit	2		1	2
		pit fill	1	1		2
	1a	grave fill		2		2
		hearth deposit	1			1
		posthole fill	2	3		5
		postpipe fill	1			1
3a-3bi		occupation deposit		2		2
		subsidence fill		1		1
3a-3bi-3bv	1a/1b	sill wall foundation	1			1
3a-3bv		pit fill	1			1
		posthole fill	1			1
3a-5b		posthole fill	1			1
3a?		occupation deposit	1			1
3bi-3bii	13	posthole fill		1	3(4)	4
	13?	posthole fill			1	1
3bi-3bv (mid 8 th -early 9 th century)		occupation deposit	1			1
	1b	hearth		1	1	1
		posthole fill	5	4	6	15
	2	posthole fill		1		1
		trench fill			1	1
	5	posthole fill	1	1		2
	8	posthole fill	2			2
		trench fill	1			1

Phase and dating	Buildings	Context type	No. contexts examined by:			Total
			BS	GBA	SPOT	
	8?	posthole fill	1			1
	22	posthole fill		2		2
	23	posthole fill		2		2
		trench fill	1			1
3bi-4ii		pit fill		1		1
	8/15?	posthole fill	1(2)			1
		trench fill	1			1
3bi-5b	?	posthole fill		1		1
3bii		occupation deposit (yard)	2	2(3)		3
3bii-3biii		occupation deposit	1			
		posthole fill		3		3
3biii		occupation deposit	1		1	1
		occupation deposit (demolition)		1		1
3biii-3bv		soakaway fill	2			2
3biv		dump 5983	2(16) (15)	1(5) (5)		2
3biv-3bv		pit fill	3	1	2	5
		posthole fill	1			1
3bv		dump 6235	3(18) (12)	3(6) (3)	2 (0)	4
		occupation deposit	1			1
3bv-4ii		dump	1			1
		levelling deposit	1			1
3bv-5a		levelling deposit			1	1
4i (early-mid 9 th century)		posthole fill		1		1
	24	posthole fill	1	1	1(2)	3
	24?	posthole fill	1			1
4i-4ii		occupation deposit			1	1
		posthole fill			1	1
		slot fill	1			1
	3	hearth deposit	1			1
		trench fill	2	1	1	2
	10	posthole fill			1	1

Phase and dating	Buildings	Context type	No. contexts examined by:			Total
			BS	GBA	SPOT	
		sill beam			2	2
		trench fill			1	1
	10?	pit fill		1		1
		posthole fill	2	1	1	4
	15	posthole fill	3	3		6
	15?	posthole fill	1			1
	25	posthole fill	1			1
4i-4ii?	3?	posthole fill	1			1
4i-5a		pit fill	1	2		2
4i-5a?		occupation deposit		1		1
4ii (mid 9 th century)		ditch fill	1			1
		dump 3758 5503	3(21) (15) (5)	3(10) (6) (3)	4(9) (4) (0)	6
4ii-5a		dump	1			1
4i?/5b	39/14?	hearth deposit		1		1
5a (mid-late 9 th century)		demolition deposit			1	1
		demolition (part of oven)		1		1
		dump	2	1	1	4
		occupation deposit	1			1
		occupation deposit (?yard)			1	1
		oven		1		1
		oven base	1	1		2
		oven floor	1			1
		oven wall	1	1		2
		pit fill	2	3	1(2)	6
		posthole fill	1	1	1	3
		slot fill	1	1		2
	26	posthole fill	2	6	4	11
5a?		dump	1			1
5a-5b		dump	1			1
		occupation deposit	2			2
		oven collapse	1			1

Phase and dating	Buildings	Context type	No. contexts examined by:			Total	
			BS	GBA	SPOT		
		pit fill	1	2	1	4	
		posthole fill	3	3	2	8	
		slot fill	1			1	
		trench fill	1			1	
	27	posthole fill	1		1	2	
	28	posthole fill	1			1	
	36/37	posthole fill	2			2	
	38	pit fill	1	1		1	
		posthole fill	1		1(2)	2	
5a-5b?		dump			2(4)	2	
5a-6i		posthole fill			1	1	
5a-6ii		pit fill	1			1	
5b (late 9 th - early 10 th century)		dump	5(8)	3(5)	6(10)	8	
		occupation deposit		1	1	2	
		oven	1			1	
		pit fill	3	3		6	
		posthole fill		1		1	
		slot fill	1			1	
		trench fill	1			1	
		4	hearth deposit	1		1(2)	1
			posthole fill		1		1
		4?	posthole fill		1	1(2)	2
		30/31	occupation deposit (yard)			1	1
			posthole fill			1	1
		31	hearth deposit			1	1
	5b-6		slot fill	1			1
5b-6i		dump	3(8)	1(4)		3	
		6490	(6)	(4)			
		hearth deposit		1		1	
		occupation deposit	1	1		1	
		pit fill	1			1	
5b-6ii		dump			1	1	
6i (early to mid 10 th century)		dump			1	1	
		pit fill	6			6	

Phase and dating	Buildings	Context type	No. contexts examined by:			Total
			BS	GBA	SPOT	
	7	posthole fill		2		2
		trench fill	2(3)		1	3
	12	trench fill	1			1
6i?		pit fill			1	1
6i-6ii		dump	1(2)			1
		hearth deposit	1			1
		occupation deposit	1(2)	1		1
		trench fill	1			1
	12	posthole fill	2			2
		trench fill	1			1
	32	posthole fill		2		2
		trench fill	2			2
	34	trench fill	1		1	2
	34?	pit fill		1		1
posthole fill		1			1	
6ii (mid 10 th century)		dump	1(8) 3891(8)	1(6) 3891(6)	2(3) 3891(2)	2
		gully fill	2	1		2
		occupation deposit	2	1	1	3
		pit fill	1			1
	33	trench fill	2(3)			2
6ii-6iii		dark soil	2(3)	1	1	3
		pit fill	1	1	1	2
6iii (mid-late 10 th to early 11 th century)		dark soil	5(6)		4(6)	9
		dark soil/ occupation deposit	1	2	1	4
6iii-7		dump	1(2)	1	1	1
7 (medieval, post early 11 th century)		dark soil	1			1
		ditch fill	2	1		3
		pit fill	4			4
		post pad			1	1
		occupation deposit (medieval oven)	1			1
Totals			210(292)	136(159)	87(108)	386

Table 1(b).

Phase	Bldgs	Context type	No. contexts not examined
1a		occupation deposit	1
		occupation deposit (yard)	1
1a-1b		posthole fill	1
1a-1b?	16/18?	posthole fill	1
1a-2		occupation deposit	1
1a-3a		pit fill	1
1a-3a?		pit fill	1
1a-5a		posthole fill	2
1a-5b		pit fill	1
1a-6iii		posthole fill	2
1a-6iii		pit fill	2
1b		occupation deposit (yard)	1
		pit fill	1
1b-3a		occupation deposit (yard)	1
		pit fill	3
1b?/5a?	18?/29?	posthole fill	2
1b/3a?	18?/1a?	posthole fill	1
1-2		posthole fill	1
		pit fill	1
2		occupation deposit (yard)	1
		post pipe fill	1
		slot fill	4
2-3a		posthole fill	1
		soakaway fill	1
		subsidence fill	1
		unknown	1
2-3a	21	occupation deposit	1
		pit fill	1
		soakaway fill	2
	6	post pipe fill	1
		trench fill	1
2-3a?		pit fill	1
		posthole fill	1
2-3a?/4i-4ii?	21?/15	posthole fill	1
2-3bi		occupation deposit	2
		pit fill	4
		trench fill	1
2-3bv		posthole fill	1
	21/8?	posthole fill	1
2-4ii		posthole fill	1
2-5a		ditch fill	1
		occupation deposit	1
		posthole fill	1
2-5b		occupation deposit	3
		pit fill	1
2i-4ii		pit fill	1
3a		depression fill	1
		posthole fill	3
	1a	slot fill	1
	9	posthole fill	15
3a	9	post pipe fill	1

		trench fill	4
	9?	trench fill	1
3a-3bi		occupation deposit (demolition)	1
3a-3biii		pit fill	1
3a-3bv	1a/1b	sill wall	2
3a-3b?		pit fill	1
3a-4ii		pit fill	1
3a-4ii	1a/1b	gravel hardstanding	1
3a-5a		gully fill	3
3b-5a		pit fill	1
3b-5b		pit fill	1
3bi		natural (wind blown sand)	1
		occupation deposit	2
		posthole fill	2
		pit fill	3
3bi-3bii		posthole fill	5
		trench fill	1
3bi-3biii		posthole fill	1
3bi-3bv		pit fill	1
	1b	post pipe fill	2
	2	hearth deposit	1
	5	pit fill	1
		trench fill	4
	22	post pipe fill	1
		slot fill	1
		trench fill	2
22?	slot fill	1	
	trench fill	2	

	23	posthole fill	1
		trench fill	1
	23?	posthole fill	1
		post pipe fill	1
3bi-4i		dump	2
		occupation deposit	1
		trench fill	1
3bi-5b		pit fill	2
3bii		posthole fill	1
3bii-3bv		dump	1
		soakaway fill	1
3biii		dump	2
		occupation deposit (yard)	1
		posthole fill	1
3biii-3bv		pit fill	1
		occupation deposit	1
3biii-3iv		pit fill	1
		dump	1
3biii-6iii		pit fill	1
3biv-4i		pit fill	5
3biv-5b		posthole fill	1
		pit fill	4
3bv		occupation deposit (floor)	2
3bv-4i		dump	1
		occupation deposit (demolition)	1
3bv-4ii		occupation deposit	1

3bv-4i?		occupation deposit	1
4i		post socket fill	1
	24	post pipe fill	2
		trench fill	2
	39	posthole fill	4
4i-4ii		occupation deposit	1
		path	1
	3	posthole fill	1
	10	hearth deposit	1
		trench fill	4
	10?	post pipe fill	2
	15	post pipe fill	1
	15?	slot fill	1
	25	trench fill	1
4i-5a		occupation deposit	3
		posthole fill	2
		slot fill	1
	15?	posthole fill	1
4i-5b		pit fill	3
		slot fill	2
4i-6i		pit fill	2
		posthole fill	2
4ii		posthole fill	1
4ii-5a		occupation deposit	1
4ii-5b		pit fill	1
4i?		pit fill	1
5a		oven dump	1
		path	3

	29	posthole fill	4
		post setting	1
5a-5b		path	1
	27?	posthole fill	1
	28	trench fill	1
	29	posthole fill	1
	38	posthole fill	1
	5a-5b?		pit fill
5a-6ii		posthole fill	1
5a?/5b?	26?/4?	pit fill	1
5b		demolition deposit	1
5b	14	posthole fill	2
	24?/30/31	posthole fill	1
	30	posthole fill	1
	30/31?	posthole fill	1
	31	posthole fill	3
		trench fill	3
	31?	posthole fill	4
5b-6		unknown	1
5b-6ii		occupation deposit	1
		posthole fill	1
6i-6ii		pit fill	1
	12?	posthole fill	1
6ii	33	posthole fill	3
		slot fill	1
6ii-6iii		occupation deposit	2
		occupation deposit (gravel)	2

		posthole fill	1
6iii		depression fill	1
		dark soil/dump	1
		posthole fill	1
		pit fill	1
7		demolition deposit	1
		levelling deposit	1
		trench fill	1
	med oven	post pad	1
7+		animal burrow fill	3
?		depression fill	2
		pit fill	2
		unknown	1
Totals			897

Table 2. Complete list of plant taxa (and other components) recorded from samples at Flixborough. Items marked * were neither charred, nor silicified nor mineralised and are presumed to have been of recent origin. Numbers of contexts in which the remains were recorded (out of a total of 386 examined for plant remains in some way) are also given, with percentage frequency in the few cases where a value of 5% or more was achieved). Taxa in square brackets were only recorded from Phase 7 (medieval); numbers in square brackets are numbers of records from Phase 7 deposits for taxa which were also recorded in earlier phases. Nomenclature and order follow Tutin et al.(1964-90).

GYMNOSPERMAE	
Coniferae (conifer): charcoal fragments, *wood fragments	1
ANGIOSPERMAE	
cf. <i>Salix</i> sp(p). (?willow): charcoal fragments	5
<i>Salix/Populus</i> sp(p). (willow/poplar/aspen): charcoal fragments	19 (5%)
<i>Betula</i> sp(p). (birch): *fruits	1
cf. <i>Betula</i> sp(p). (?birch): charcoal fragments	2
<i>Alnus</i> sp(p). (alder): charcoal fragments	6
<i>Betula/Corylus</i> (birch/hazel): charcoal fragments	3
<i>Corylus avellana</i> L. (hazel): charcoal fragments	27 (7%)
charred nuts and/or nutshell fragments	12
<i>Quercus</i> sp(p). (oak): charcoal fragments	80 (21%)
large charred wood fragments	2
cf. <i>Quercus</i> sp(p). (?oaks): charred bud and/or bud-scales	1
<i>Cannabis sativa</i> L. (hemp): charred achenes	1
<i>Urtica urens</i> L. (annual nettle): *uncharred achenes	3
<i>Polygonum aviculare</i> agg. (knotgrass): charred fruits	1
*uncharred fruits	4
<i>P. persicaria</i> L. (persicaria/red shank): charred fruits	2
<i>Bilderdykia convolvulus</i> (L.) Dumort. (black bindweed): charred fruits or fruit fragments	3[1]
*uncharred fruits	4
<i>Rumex acetosella</i> agg. (sheep's sorrel): charred fruits	1
<i>Rumex</i> sp(p). (docks): charred	8
*uncharred fruits	1
Chenopodiaceae (goosefoot family): charred seeds	4
<i>Chenopodium album</i> L. (fat hen): charred seeds	6[1]
*uncharred seeds	12[1]
<i>Atriplex</i> sp(p). (oraches): charred seeds	6[1]
*uncharred seeds	3
<i>Suaeda maritima</i> (L.) Dumort. (annual seablite): charred seeds	1
<i>Stellaria media</i> (L.) Vill. (chickweed): charred seeds	1
<i>Spergula arvensis</i> L. (com spurrey): *uncharred seeds	1
[<i>Agrostemma githago</i> L. (comcockle): charred seeds	1]
<i>Silene vulgaris</i> (Moench) Garcke (bladder campion): *uncharred seeds	3
<i>Silene vulgaris/S. alba</i> (Miller) Krause in Sturm (bladder/white campion): charred seeds	2[1]
<i>Ranunculus sardous</i> Crantz (hairy buttercup): charred achenes	4
<i>Raphanus raphanistrum</i> L. (wild radish): charred pod segments and/or fragments	2[1]
<i>Rubus</i> sp(p). (blackberries, etc.): charred seeds	1
<i>Rubus fruticosus</i> agg. (blackberry/bramble): charred seeds	1
*uncharred seeds	1
<i>Potentilla anserina</i> L. (silverweed): charred achenes	1
cf. Pomoideae (?Crataegus/Malus/Pyrus/Sorbus): charcoal fragments	1

<i>Prunus domestica</i> ssp. <i>insititia</i> (L.) C. K. Schneider (plums, etc.): charred fruitstones	3
Leguminosae (pea family): charred pods and/or pod fragments	1
charred seeds	6[1]
<i>Vicia faba</i> L. (field bean): charred cotyledons or seeds	2
cf. <i>Vicia</i> sp(p). (?vetches, etc.): charred seeds	1
cf. <i>Pisum sativum</i> L. (?garden/field pea): charred cotyledons or seeds	3[1]
<i>Medicago lupulina</i> L. (black medick): charred pods and/or pod fragments	1
cf. <i>Trifolium</i> sp(p). (?clovers, etc.): charred seeds	3
<i>Linum usitatissimum</i> L. (cultivated flax): charred seeds	3
cf. <i>Acer</i> sp(p). (?maple, etc.): charcoal fragments	2
<i>Viola</i> sp(p). (violets/pansies, etc.): *uncharred seeds	2
cf. Umbelliferae (?carrot family): charred mericaps	1
cf. <i>Calluna vulgaris</i> (L.) Hull (?heather, ling): charred root and/or basal twig fragments	1
<i>Fraxinus excelsior</i> L. (ash): charcoal fragments	6
<i>Galium aparine</i> L. (goosegrass, cleavers): charred fruits	3[1]
<i>Galium</i> sp(p). (bedstraws, etc.): charred fruits	1
Boraginaceae (borage family): mineralised nutlets	2
*uncharred nutlets	2
[<i>Galeopsis</i> sp(p). (hemp-nettles): charred nutlets	1]
<i>Hyoscyamus niger</i> L. (henbane): seeds	1
<i>Rhinanthus</i> sp(p). (yellow rattles): charred seeds	1
<i>Plantago maritima</i> L. (sea plantain): charred capsules	7
charred seeds	4
<i>P. cf. lanceolata</i> L. (?ribwort plantain): charred seeds	1
<i>Sambucus nigra</i> L. (elder): *seeds or seed fragments	5
[<i>Valerianella dentata</i> (L.) Pollich (narrow-fruited cornsalad): charred fruits	1]
[<i>Anthemis cotula</i> L. (stinking mayweed): charred achenes	1]
<i>Carduus/Cirsium</i> sp(p). (thistles): achenes	1
[<i>Centaurea</i> sp(p). (knapweeds, etc.): charred achenes	1]
<i>Lapsana communis</i> L. (nipplewort): charred achenes	2[1]
<i>Juncus</i> sp(p). (rushes): charred capsules	18 (5%)
charred seeds	1
Gramineae (grasses): charred caryopses	13[1]
charred culm nodes	5
*uncharred caryopses	2
Gramineae/'Cerealia' (grasses/cereals): charred caryopses	1
charred culm nodes	5[1]
'Cerealia' indet. (cereals): charred caryopses	21 (5%)[2]
[charred coleoptiles	1]
charred culm fragments	1
charred culm nodes	1
<i>Puccinellia maritima</i> (Hudson) Parl. (common saltmarsh-grass): charred culm fragments	5
cf. <i>Puccinellia</i> sp(p). (?saltmarsh-grasses): charred caryopses	1
<i>Bromus</i> sp(p). (bromes, etc.): charred caryopses	4
cf. <i>Bromus</i> sp(p). (?bromes, etc.): charred caryopses	5
<i>Triticum 'aestivo-compactum'</i> (bread/club wheat): charred caryopses	9[1]
<i>T. cf. 'aestivo-compactum'</i> (?bread/club wheat): charred caryopses	1
<i>Triticum</i> sp(p). (wheats): charred caryopses	5[1]
cf. <i>Triticum</i> sp(p). (?wheats): charred caryopses	2
<i>Secale cereale</i> L. (rye): charred caryopses	2[1]
cf. <i>S. cereale</i> L. (?rye): charred caryopses	1
<i>Hordeum</i> sp(p). (barley): charred caryopses	15
charred caryopses, incl. hulled/sprouting	1
charred rachis fragments	1

cf. <i>Hordeum</i> sp(p). (?barley): charred caryopses	8
<i>Avena</i> sp(p). (oats): charred caryopses, some or all sprouting	1
cf. <i>Avena</i> sp(p). (?oats): charred caryopses	5
<i>Scirpus maritimus</i> L. (sea club-rush): charred nutlets	1
<i>S. maritimus/S. lacustris</i> s.l. (sea club-rush/bulrush): charred nutlets	1
<i>S. lacustris</i> s.l. (bulrush): charred nutlets	2
<i>Eleocharis palustris</i> s.l. (common spike-rush): charred nutlets	7
silicified exocarp	1
<i>Carex</i> sp(p). (sedges): charred nutlets	10[1]
*uncharred nutlets	1

Other components of the samples (the nature of items marked ‘§’ is discussed in the text; numbers following ‘+?’ are additional, tentative records; as above, ‘*’ indicates probable post-depositional or modern material)

amphibian bone	28 (7%)	earthworm egg caps (min)	2
ash	10+?2	eggshell fgts	21 (5%)
‘ash beads’§	39 (10%)	?faecal concretions	2
ash concretions §	30 (8%)	Fe nail(s)	1
baked clay/daub	60 (16%)	Fe object(s)	1+?3
bark fgts (ch)	2	fish bone	107 (28%)
barnacle shell fgts	1	fish scale	13
beetles*	3	flint	18 (5%)
beetles (contaminant)*	1	fly puparia*	4
bird bone	66 (17%)	glass	2+?1
bird tracheal ring	5	glassy slag	29 (8%)
bone fgts	216 (56%)	gravel	69 (18%)
brick/tile	2+?4	grit	38 (10%)
burnt bone fgts	72 (19%)	gritstone	1
burnt clay	5	Helix aspersa	1
burnt fish bone	1	herbaceous detritus*	1
?burnt soil	1	Heterodera (cysts)*	6+?1
burnt stone	17	insects*	15
Cecilioides acicula*	47 (12%)	iron-rich concretions	1
Cenococcum (sclerotia)	2+?1	iron-rich slag	2
chalk	1	land snails	4
‘char’§	2	?lava quern fgts	1
charcoal	300 (78%)	‘lime’ concretions§	71 (18%)
charred ?arthropod	1	lime/tufa	4
?charred bread §	2	limestone	113 (29%)
charred buds	1	mammal bone	13
charred herbaceous detritus §	27 (7%)	marine mollusc shell fgts	2
charred seaweed §	4+?2	metallic slag	12
charred seeds	1	mortar	1+?1
coal	2	mussel shell fgts	1
coarse sand	7	ostracods	1
cockle shell fgts	1	oyster shell fgts	28 (7%)
concreted sediment §	14	?peat fgts	1
concretions §	3+?3	pebbles	8
crab shell fgts	1	percid scale	1
daub	2+?37 (10%)	‘pinched’ stems (ch)§	34 (9%)
?dog coprolite	1	planorbid snails	1
earthworm egg caps*	6+?1	pottery	6
earthworm egg caps (contaminant)*	5	reptile bone	1

root bark/epidermis fgts (modern)*	1	small mammal bone	24 (6%)
?root moulds	1	snails	109 (28%)
root moulds (min)	4	snails (ch)	1
root/rhizome fgts (ch)§	6	snails (contaminant)*	1
root/rootlet fgts*	24 (6%)	?spirobids	1
root/rootlet fgts (?modern)*	2	stone	6
root/rootlet fgts (modern)*	121 (31%)	stones	38 (10%)
sand	153 (40%)	teeth	16
sandstone	1	tufa	7+?6
silicified herbaceous detritus§	1	twig fgts	1
slag	7+?4	twig fgts (ch)	2
		unwashed clay sediment	3
		unwashed sediment	1
		winkle shells/fgts	1
		wood fgts	1
		wood fgts (min)	3
		woody root fgts (?modern)*	1
		woody root fgts (modern)*	8

Table 3. Complete lists of plant remains and other components of the samples examined for plant material from Flixborough, in context and sample order (and within the lists, alphabetically). Subsample weight, phase and context type (including associated buildings) are given for those contexts where the plant remains amounted to more than a little unidentified charcoal and/or where many samples from that context were examined. The abundance scores are on a four-point scale for GBA subsamples and a three-point scale for BS and spot samples.

Key to abbreviations: b/bs—buds/bud-scales; caps—capsules; ch—charred; c/n—culm-nodes; cole—coleoptile fragments; cot—cotyledons; dec—decayed; exo—exocarp; ff—fruit fragments; fgts—fragments; inc—including; max—maximum (dimension); min—mineralised; mod—modern; rt-tw—root/basal twig; sil—silicified; spec—specimen; spr—sprouting; v—very.

Context 49, Sample 386/SPT		metallic slag	1
Quercus (charcoal)	1 max 20 mm	Sambucus nigra	1 modern
Context 49, Sample 388/SPT			
cf. Acer sp(p).	1 max 15 mm		
Quercus (charcoal)			
Context 51, Sample 1382/BS2			
charcoal	1 max 5 mm		
coal	1 max 10 mm		
concreted sediment	1 max 30 mm		
grit	1		
limestone	1 max 50 mm		
root/rootlet fgts (modern)	1		
Context 72, Sample 648/SPT			
Corylus avellana (charcoal)	1 max 20 mm		
Salix/Populus sp(p). (charcoal)	1 max 20 mm		
Context 209, Sample 646/SPT			
Quercus (charcoal)	1 max 15 mm		
Context 258, Sample 1384/BS2			
?daub	1 max 10 mm		
bone fgts	1 max 30 mm		
Boraginaceae	1 modern		
burnt bone fgts	1 max 10 mm		
charcoal	1 max 5 mm		
Chenopodium album	1		
gravel	1		
limestone	1 max 20 mm		
sand	1		
Context 268, Sample 1383/BS2			
?daub	1 max 10 mm		
bone fgts	1 max 20 mm		
charcoal	1 max 5 mm		
grit	1		
Context 269, Sample 1254/BS			
?daub	1		
bone fgts	1		
coarse sand	1		
limestone	1		
Context 269, Sample 1255/BS			
charcoal	1 max 5 mm		
coarse sand	1		
glassy slag	1		
limestone	1		
Context 300: Phase 5a-5b, pit fill, bldg 38			
Context 300, Sample 315/T2 (2kg)			
'ash beads'	1		
'pinched' stems (ch)	1		
Atriplex sp(p). (ch)	1		
Carex sp(p). (ch)	2		
cf. Quercus sp(p). (ch b/bs)	1		
cf. Trifolium sp(p).	1		
cf. Triticum sp(p).	1		
charcoal	3 max 20 mm		
charred herbaceous detritus	1		
Chenopodium album (ch)	1		
Eleocharis palustris sl (ch)	1		
Galium sp(p). (ch)	1		
Gramineae (ch c/n)	1		
Gramineae/Cerealialia (ch)	1		
Heterodera (cysts)	1		
metallic slag	1 max 35 mm		
Polygonum aviculare agg.	1 1 mod spec		
Quercus (charcoal)	1		
Rumex sp(p). (ch)	1		
sand	4		
Context 300, Sample 384/BS (23 kg)			
Carex sp(p). (ch)	1		
charcoal	3 max 20 mm		
coarse sand	2		
gravel	1		
Hordeum sp(p).	1		
Polygonum aviculare agg.	1		
Triticum aestivo-compactum	1		

Context 320, Sample 1263/BS

bone fgts	1
charcoal	1 max 5 mm
coarse sand	1
pebbles	1

Context 320, Sample 1264/BS

?slag	1
charcoal	1
coarse sand	1
flint	1

Context 321, Sample 1257/BS

bone fgts	1
coarse sand	1
iron-rich slag	1
pottery	1
stones	1

Context 322, Sample 1252/BS

bone fgts	1
burnt stone	1
charcoal	1
coarse sand	2
glassy slag	1
snails	1 1 spec

Context 322, Sample 1253/BS

bone fgts	2
charcoal	1 max 5 mm
coarse sand	1

Context 428, Sample 1391/BS2

?slag	1 max 50 mm
bone fgts	1 max 10 mm
burnt bone fgts	1 max 10 mm
daub	1 max 40 mm
fish bone	1
limestone	1 max 60 mm
sand	1

Context 431, Sample 1392/BS2

bone fgts	1 max 60 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 5 mm
fish bone	1
limestone	1 max 40 mm
metallic slag	1 max 30 mm
sand	1

Context 433, Sample 1388/BS2

baked clay/daub	1 max 40 mm
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
limestone	1 max 30 mm
sand	1

Context 444, Sample 441/T2

bone fgts	1 max 25 mm
charcoal	1 max 5 mm
sand	3
stones	1 max 25 mm

Context 450, Sample 1394/BS2

?daub	1 max 10 mm
bone fgts	1 max 30 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
concreted sediment	1 max 10 mm
flint	1
limestone	1 max 20 mm
sand	1

Context 453, Sample 1385/BS2

bone fgts	1 max 10 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
sand	1

Context 466, Sample 877/BS2

baked clay/daub	3 max 70 mm
bone fgts	1 max 30 mm
charcoal	1 max 10 mm
root/rootlet fgts (modern)	1

Context 489, Sample 490/BS2

baked clay/daub	1 max 20 mm
bone fgts	1 max 10 mm
charcoal	1 max 10 mm
grit	1
metallic slag	1 max 20 mm

Context 492: Phase 5a-5b posthole fill, bldgs 36/37**Context 492, Sample 496/BS2 (13 kg)**

bird bone	1
bone fgts	1 max 30 mm
burnt bone fgts	1 max 20 mm
Carex sp(p). (ch)	1
cf. Polygonum aviculare agg. (ch)	1
charcoal	1 max 20 mm
Chenopodium album (ch)	1
earthworm egg caps (contaminant)	1
fish bone	1
Gramineae (ch)	1
grit	1
herbaceous detritus (ch)	1
Hordeum sp(p).	1
limestone	1 max 20 mm
Linum usitatissimum (ch)	2
Rubus fruticosus agg. (ch)	1
Rumex sp(p). (ch)	1
tufa	1 max 25 mm

Context 500, Sample 508/T2

bone fgts	1 max 30 mm
charcoal	1 max 3 mm
sand	3
stones	1 max 30 mm

Context 502, Sample 647/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 503, Sample 511/BS2

'lime' concretions	1 max 10 mm
bird bone	1
bone fgts	1 max 50 mm
burnt bone fgts	1 max 25 mm
charcoal	1 max 5 mm
glassy slag	1 max 10 mm
limestone	1 max 50 mm
small mammal bone	1

Context 534, Sample 544/BS2

?faecal concretions	1 max 20 mm
burnt bone fgts	1 max 15 mm
charcoal	1 max 5 mm
Chenopodium album	1
flint	1 max 15 mm
grit	1
root/rootlet fgts (modern)	1

Context 636, Sample 797/BS

amphibian bone	1
bird bone	1
bone fgts	1
Cerealia indet.	1
cf. Vicia sp(p).	1
charcoal	1
fish bone	1
stones	1

Context 779, Sample 781/T

charcoal	1 max 20 mm
lime/tufa	2
root/rootlet fgts	1
sand	3
snails	2

Context 793, Sample 835/BS2

baked clay/daub	1 max 15 mm
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
glassy slag	1 max 15 mm
gravel	1
grit	1
limestone	1 max 30 mm
root/rootlet fgts (modern)	1

Context 850, Sample 937/T

?brick/tile	2
?Heterodera (cysts)	1
bone fgts	1

charcoal	1 max 10 mm
gravel	2
root/rootlet fgts	2
sand	3

Context 934, Sample 975/BS2

burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
flint	1 max 5 mm
grit	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1

Context 953, Sample 978/BS2

baked clay/daub	1 max 30 mm
bone fgts	1 max 30 mm
burnt bone fgts	1 max 10 mm
Cecilioides acicula	1
charcoal	1 max 20 mm
earthworm egg caps (contaminant)	1
fish bone	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1

Context 953, Sample 5838/SPT

Quercus (charcoal)	1 max 10 mm
--------------------	-------------

Context 956, Sample 5841/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 968, Sample 5907/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 971, Sample 1013/BS

ash	1
bone fgts	1
charcoal	1 max 20 mm
charred herbaceous detritus	1
earthworm egg caps	1
root/rootlet fgts (modern)	1

Context 971, Sample 5840/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 972, Sample 5839/SPT

Salix/Populus sp(p). (charcoal)	1 max 15 mm
---------------------------------	-------------

Context 1136, Sample 3233/T2

ash	1
bird bone	1 max 30 mm
charcoal	1 max 10 mm
charred herbaceous detritus	1
sand	4
stones	1 max 40 mm

Context 1183, Sample 1187/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 1284, Sample 1346/BS2	
?daub	1 max 20 mm
burnt bone fgts	1 max 5 mm
sand	1

Context 1285, Sample 1331/BS2	
?daub	1 max 5 mm
bone fgts	1 max 10 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
flint	1
gravel	1
limestone	1 max 50 mm
root/rootlet fgts (modern)	1
sand	1

Context 1287, Sample 1895/SPT	
Quercus (charcoal)	1 max 40 mm

Context 1306, Sample 1371/SPT	
herbaceous detritus	1 ?modern

Context 1410: Phase 7, pit fill

Context 1410, Sample 1411/BS (15 kg)	
Agrostemma githago (ch)	1
Anthemis cotula (ch)	1
Atriplex sp(p). (ch)	1
Avena sp(p). (inc spr)	1
Bilderdykia convolvulus (ch)	1
Carex sp(p). (ch)	1
Centaurea sp(p). (ch)	1
Cerealium indet.	2
Cerealium indet. (cole)	1
cf. Pisum sativum (ch cot)	1
cf. Vicia faba (ch cot)	1
Chenopodium album (ch)	1
Galeopsis sp(p). (ch)	1
Galium aparine (ch)	1
Lapsana communis (ch)	1
Leguminosae	1 max 5 mm
Raphanus raphanistrum (ch pod segs/fgts)	1
root/rootlet fgts (modern)	1
Secale cereale	1
Silene vulgaris/alba (ch)	1
Triticum aestivo-compactum	1
Triticum sp(p).	2
Valerianella dentata (ch)	1

Context 1415, Sample 1787/BS2	
baked clay/daub	1 max 20 mm
bone fgts	1 max 20 mm
charcoal	1 max 5 mm
fish bone	1
Gramineae (ch)	1
gravel	1 max 25 mm

limestone	1 max 60 mm
root/rootlet fgts (modern)	1

Context 1449, Sample 1796/BS2	
?daub	1 max 20 mm
bone fgts	1 max 50 mm
Cerealium indet.	1
charcoal	1 max 5 mm
fish bone	1
gravel	1 max 30 mm
limestone	1 max 60 mm
root/rootlet fgts (?modern)	1

Context 1450, Sample 1785/BS2	
?daub	1 max 15 mm
bone fgts	1 max 40 mm
Cerealium indet.	1
charcoal	1 max 5 mm
fish bone	1
gravel	1 max 30 mm

Context 1454, Sample 1973/SPT	
Quercus (charcoal)	1 max 15 mm
Salix/Populus sp(p). (charcoal)	1 max 20 mm

Context 1459, Sample 1691/T	
charcoal	1 max 10 mm
gravel	2
root/rootlet fgts	1
sand	4

Context 1462, Sample 1509/SPT	
Quercus (charcoal)	1 max 15 mm
Salix/Populus sp(p). (charcoal)	1 max 20 mm

Context 1462, Sample 1622/SPT	
Corylus avellana (charcoal)	1 max 30 mm

Context 1462, Sample 1629/SPT	
Corylus avellana (charcoal)	1 max 30 mm

Context 1512, Sample 1520/SPT	
Corylus avellana (charcoal)	1 max 20 mm

Context 1512, Sample 1544/BS2	
baked clay/daub	3 max 110 mm
charcoal	1 max 5 mm
root/rootlet fgts (modern)	1
snails	1
woody root fgts (modern)	1

Context 1512, Sample 1919/SPT	
Corylus avellana (charcoal)	1 max 25 mm

Context 1653, Sample 1745/BS2	
?daub	1 max 10 mm
bird bone	1 max 20 mm

charcoal	1 max 5 mm
fish bone	1
limestone	1 max 60 mm
root bark/epidermis fgts (modern)	1

Context 1660, Sample 4004/SPT

Salix/Populus sp(p). (charcoal)	1 max 15 mm
---------------------------------	-------------

Context 1672, Sample 1987/BS2

'lime' concretions	1
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
gravel	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1

Context 1680, Sample 3521/BS2

?daub	1
bone fgts	1
charcoal	1 max 10 mm
root/rootlet fgts (modern)	1
sand	1

Context 1680, Sample 3522/BS2

?daub	1 max 20 mm
bone fgts	1 max 30 mm
charcoal	1 max 10 mm
flint	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1
sand	1

Context 1688, Sample 1732/BS2

baked clay/daub	1
bone fgts	1 max 40 mm
charcoal	1 max 5 mm
limestone	1 max 100 mm
root/rootlet fgts (modern)	1

Context 1704, Sample 1733/BS2

?daub	1
bone fgts	1 max 30 mm
charcoal	1 max 15 mm
fish bone	1
small mammal bone	1

Context 1707, Sample 1990/BS2

?daub	1 max 10 mm
bone fgts	1 max 30 mm
charcoal	1 max 5 mm
fish bone	1
gravel	1
limestone	1 max 60 mm
root/rootlet fgts (modern)	1

Context 1708: Phase 6ii-6iii, pit fill

Context 1708, Sample 1764/BS (12 kg)

'ash beads'	2
'pinched' stems (ch)	1
bone fgts	3
Carex sp(p). (ch)	1
cf. Bromus sp(p).	1
charcoal	1 max 5 mm
charred herbaceous detritus	2
concretions	2 max 50 mm
Gramineae/Cerealialia (ch c/n)	1
gravel	2
Juncus sp(p). (ch caps)	1
mammal bone	1
pebbles	1
Ranunculus sardous (ch)	1
stones	1

Context 1708, Sample 1764/T (1 kg, assessment only)

'ash beads'	2
ash concretions	2 max 40 mm
charcoal	1 max 10 mm
charred herbaceous detritus	2
Gramineae (ch)	2 small type(s)
root/rootlet fgts	2
sand	4

Context 1719, Sample 1743/BS2

?daub	1 max 10 mm
charcoal	1 max 5 mm
Gramineae/Cerealialia (ch c/n)	1
gravel	1 max 15 mm
sand	1
small mammal bone	1

Context 1727, Sample 4941/BS2

charcoal	1 max 5 mm
grit	1
limestone	1 max 30 mm

Context 1728, Sample 1775/BS

bone fgts	1
charcoal	1 max 5 mm
glassy slag	1

Context 1728, Sample 1780/SPT

Quercus (charcoal)	1 max 45 mm
--------------------	-------------

Context 1728, Sample 1793/BS

?daub	1
bone fgts	1
charcoal	1
stone	1

Context 1728, Sample 1793/T2

bone fgts	1 max 15 mm
charcoal	1 max 10 mm
glassy slag	1 max 5 mm

sand	3
stones	1 max 20 mm

Context 1728, Sample 1802/BS

amphibian bone	1
bone fgts	1
burnt bone fgts	1
burnt stone	1
fish bone	1
flint	1
stones	1

Context 1728, Sample 1881/BS

bone fgts	1
charcoal	1
fish bone	1
Gramineae	1
root/rootlet fgts (modern)	1
stones	1

Context 1728, Sample 2744/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 1730, Sample 1772/BS2

amphibian bone	1
bone fgts	1 max 20 mm
burnt bone fgts	1
charcoal	1 max 10 mm
fish bone	1
glassy slag	1 max 10 mm
gravel	2 max 50 mm
limestone	2 max 200 mm
root/rootlet fgts (modern)	1
teeth	1

Context 1739, Sample 3472/T2

'lime' concretions	1
charcoal	1 max 5 mm
sand	4

Context 1982, Sample 3435/SPT

Quercus (charcoal)	1 max 50 mm
--------------------	-------------

Context 1982, Sample 3574/T2

bone fgts	1 max 40 mm
sand	3

Context 1984, Sample 4705/SPT

Quercus (charcoal)	2 max 110 mm
--------------------	--------------

Context 1995, Sample 1998/BS2

bird bone	1
bone fgts	1 max 70 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
fish bone	1
flint	1 max 25 mm
limestone	1 max 60 mm
root/rootlet fgts (modern)	1

slag	1 max 25 mm
------	-------------

Context 2004, Sample 2037/T2

ash concretions	1 max 5 mm
charcoal	1 max 5 mm
charred herbaceous detritus	1
fish bone	1 max 5 mm
root/rootlet fgts (modern)	1
sand	4
snails	1 1 spec
stones	1 max 70 mm

Context 2033, Sample 2055/T2

charcoal	1 max 5 mm
root/rootlet fgts (modern)	1
sand	4
stone	1 max 20 mm

Context 2047, Sample 2056/T2

'pinched' stems (ch)	1
bone fgts	1 max 25 mm
charcoal	1 max 5 mm
charred herbaceous detritus	1
sand	3

Context 2085, Sample 2086/T2

'ash beads'	1
'pinched' stems (ch)	1
charcoal	1 max 5 mm
charred herbaceous detritus	1
Juncus sp(p). (ch caps)	1
root/rootlet fgts (modern)	1
sand	3

Context 2120, Sample 2149/T2

bone fgts	1 max 20 mm
chalk	1
charcoal	1 max 10 mm
fish scale	1
flint	1
root/rootlet fgts (modern)	1
sand	3
stones	1 max 20 mm

Context 2127, Sample 2133/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 40 mm
charcoal	1 max 10 mm
fish bone	1
flint	1 max 10 mm
limestone	1 max 40 mm
root/rootlet fgts (modern)	1
teeth	1
woody root fgts (modern)	1

Context 2135, Sample 2140/BS2

baked clay/daub	1 max 10 mm
bone fgts	1 max 20 mm
burnt bone fgts	1 max 5 mm

charcoal	1 max 30 mm
grit	1
limestone	1 max 30 mm
Quercus (charcoal)	1 max 25 mm
root/rootlet fgts (modern)	1
woody root fgts (modern)	1

Context 2141, Sample 2164/T2

'pinched' stems (ch)	1
ash concretions	1 max 10 mm
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
root/rootlet fgts (modern)	1
sand	4
stones	1 max 40 mm

Context 2146, Sample 2166/T2

?ash	1
charcoal	1 max 5 mm
root/rootlet fgts (?modern)	1
sand	4

Context 2148, Sample 2167/T2

'pinched' stems (ch)	1
ash concretions	1 max 15 mm
charcoal	1 max 5 mm
Chenopodium album	1
fish bone	1 max 3 mm
glassy slag	1 max 10 mm
insects (contaminant)	1
root/rootlet fgts (modern)	1
sand	4
stones	2 max 40 mm

Context 2180, Sample 2567/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 2224, Sample 2404/SPT

Quercus (charred wood)	1 max 160 mm
------------------------	--------------

Context 2224, Sample 2746/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 2320, Sample 2321/T

'ash beads'	1
charcoal	1 max 10 mm
gravel	1
root/rootlet fgts	2
sand	4

Context 2340, Sample 2745/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 2356, Sample 2360/T2

charcoal	1 max 5 mm
Quercus (charcoal)	1 max 5 mm
sand	4

Context 2376, Sample 2377/T2

bird bone	1
charcoal	1 max 10 mm
fish bone	1
limestone	1 max 70 mm
mammal bone	1 max 10 mm
sand	4

Context 2394, Sample 2407/T2

charcoal	1 max 10 mm
sand	4
woody root fgts (?modern)	1

Context 2433, Sample 2474/SPT

Quercus (charcoal)	2 max 65 mm
--------------------	-------------

Context 2480, Sample 2489/T2

bone fgts	1 max 30 mm
charcoal	1 max 5 mm
fish bone	1 max 5 mm
sand	4
stones	1 max 60 mm

Context 2488, Sample 2514/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 2562, Sample 2924/T

bone fgts	1
charcoal	2 max 10 mm
gravel	1
insects	1
pottery	1
root/rootlet fgts	1
sand	4

Context 2562, Sample 2929/BS2

amphibian bone	1
baked clay/daub	1 max 50 mm
bird bone	1
bone fgts	3 max 70 mm
charcoal	1 max 15 mm
flint	1
limestone	2 max 60 mm
root/rootlet fgts (modern)	1
teeth	1

Context 2562, Sample 2929/T

bone fgts	3
charcoal	2 max 10 mm
gravel	1
root/rootlet fgts	1
sand	3

Context 2562, Sample 3047/T

bone fgts	3
charcoal	2 max 15 mm
gravel	1
root/rootlet fgts (modern)	1
sand	3

Context 2562, Sample 3100/SPT		bone fgts	1
Quercus (charcoal)	1 max 15 mm	charcoal	1 max 5 mm
Context 2562, Sample 3103/SPT		Context 2860, Sample 3090/BS	
Salix/Populus sp(p). (charcoal)	1 max 10 mm	bird bone	1
Context 2610, Sample 3169/BS2		bone fgts	1
bone fgts	1 max 60 mm	Cerealia indet.	1
charcoal	1 max 5 mm	charcoal	1
fly puparia	1 modern	fish bone	1
grit	1	Context 2860, Sample 3090/T	
limestone	1 max 15 mm	'ash beads'	1
root/rootlet fgts (modern)	1	charcoal	1 max 5 mm
Context 2656: Phase 3a-5b, posthole fill		charred herbaceous detritus	1
Context 2656, Sample 2661/BS (14 kg)		gravel	1
'ash beads'	1	sand	4
'pinched' stems (ch)	1	Context 2861, Sample 2863/BS	
Atriplex sp(p). (ch)	1	bone fgts	1
Cerealia indet.	1	charcoal	1
cf. Bromus sp(p).	1	coarse sand	1
charcoal	1 max 2 mm	fish bone	1
Juncus sp(p). (ch caps)	1	small mammal bone	1
Leguminosae	1 max 1 mm	Context 2861, Sample 2864/BS	
Plantago maritima (ch caps)	1	bone fgts	1
root/rootlet fgts (modern)	1	charcoal	1 max 5 mm
Context 2740, Sample 4822/T		coarse sand	1
charcoal	3 max 10 mm	pebbles	1
gravel	1	stones	1
root/rootlet fgts	2	Context 2861, Sample 3093/BS	
sand	4	bone fgts	2
Context 2776, Sample 3165/SPT		charcoal	1 max 5 mm
Quercus (charcoal)	1 max 30 mm	coarse sand	1
Context 2777, Sample 3043/SPT		fish bone	1
Quercus (charcoal)	1 max 15 mm	Leguminosae	1
Context 2784, Sample 3500/BS2		oyster shell fgts	1
amphibian bone	1	Context 3088, Sample 3873/BS2	
baked clay/daub	1 max 10 mm	bone fgts	1 max 60 mm
bird bone	1	charcoal	1 max 10 mm
charcoal	1 max 10 mm	limestone	3 max 100 mm
fish bone	1	Context 3217, Sample 3298/SPT	
gravel	1 max 10 mm	Prunus domestica ssp. insititia (ch)	1 fgts only
mammal bone	2 max 120 mm	Context 3239, Sample 5455/T2	
sand	1	bone fgts	1 max 5 mm
small mammal bone	1	burnt clay	2
snails	1	charcoal	1 max 5 mm
Context 2784, Sample 4707/SPT		root/rootlet fgts (modern)	1
Quercus (charcoal)	1 max 25 mm	sand	4
Salix/Populus sp(p). (charcoal)	1 max 20 mm	unwashed clay sediment	2
Context 2860, Sample 2876/BS		Context 3256, Sample 5466/T2	
?daub	1	?Fe object(s)	1
		ash concretions	1 max 5 mm
		baked clay/daub	2 max 20 mm

burnt bone fgts	1 max 15 mm
charcoal	1 max 15 mm
root/rootlet fgts (modern)	1
sand	3
Triticum sp(p).	1

Context 3256, Sample 6034/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 3273, Sample 3285/BS

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	1 max 5 mm
charcoal	1 max 10 mm
Gramineae (ch c/n)	1
Juncus sp(p). (ch caps)	1
root/rootlet fgts (modern)	1

Context 3280: Phase 3b v-4ii, dump**Context 3280, Sample 6043/BS (15 kg)**

'ash beads'	1
'pinched' stems (ch)	2
ash concretions	2 max 20 mm
bone fgts	1 max 15 mm
Bromus sp(p).	1
Carex sp(p). (ch)	1
Cerealia indet.	1
cf. Gramineae (ch c/n)	1
cf. Hordeum sp(p).	1
cf. Puccinellia maritima (culm fgts)	1
cf. Salix (charcoal)	1 max 10 mm
cf. Secale cereale	1
charcoal	1 max 10 mm
fish bone	1 max 5 mm
Juncus sp(p). (ch caps)	1
Quercus (charcoal)	1 max 10 mm
Raphanus raphanistrum (ch pod segs/fgts)	1 1 spec
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
snails	1

Context 3303, Sample 3360/T2

baked clay/daub	2 max 40 mm
bone fgts	1 max 30 mm
charcoal	1 max 15 mm
fish bone	1 max 5 mm
sand	3

Context 3321, Sample 3378/SPT

Quercus (charcoal)	2 max 50 mm
--------------------	-------------

Context 3323, Sample 3876/BS2

?daub	1 max 10 mm
ash concretions	1 max 30 mm
bone fgts	1 max 100 mm
charcoal	1 max 10 mm

sand	1
------	---

Context 3325, Sample 3355/SPT

Corylus avellana (charcoal)	1 max 30 mm
-----------------------------	-------------

Context 3331, Sample 3379/BS2

baked clay/daub	1 max 20 mm
bird bone	1
bone fgts	1 max 40 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
grit	1
limestone	1 max 65 mm
tufa	1 max 20 mm

Context 3352, Sample 6033/SPT

Quercus (charcoal)	1 max 10 mm
--------------------	-------------

Context 3359, Sample 3372/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 3393, Sample 3398/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 3418, Sample 3620/BS2

baked clay/daub	1 max 40 mm
bone fgts	1 max 20 mm
charcoal	1 max 5 mm
root/rootlet fgts (modern)	1

Context 3421, Sample 3450/BS2

'lime' concretions	1 max 5 mm
amphibian bone	1
ash concretions	1 max 5 mm
bone fgts	1 max 40 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1
limestone	1 max 90 mm
root/rootlet fgts (modern)	1

Context 3464, Sample 3465/T2

ash concretions	1 max 15 mm
bone fgts	1 max 40 mm
burnt bone fgts	1 max 15 mm
charcoal	1 max 15 mm
root/rootlet fgts (modern)	1
sand	4

Context 3479, Sample 3480/T2

bone fgts	1 max 20 mm
charcoal	1 max 10 mm
sand	3
stone	1 max 30 mm

Context 3483, Sample 3494/T2

'lime' concretions	3 max 30 mm
--------------------	-------------

bone fgts	1 max 50 mm
marine mollusc shell fgts	1 max 15 mm
sand	3
stones	1 max 20 mm

Context 3485, Sample 3456/SPT

charcoal	1 max 10 mm
----------	-------------

Context 3486, Sample 3498/T2

charcoal	1 max 5 mm
root moulds (min)	1
sand	3

Context 3531, Sample 4042/BS2

'lime' concretions	1 max 15 mm
baked clay/daub	1 max 10 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
concreted sediment	1 max 30 mm
grit	1
root/rootlet fgts (modern)	1

Context 3531, Sample 4361/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 3531, Sample 4541/T2

'ash beads'	1
'lime' concretions	1 max 5 mm
bone fgts	1 max 25 mm
charcoal	1 max 10 mm
fish bone	1 max 10 mm
sand	4
stones	1 max 25 mm

Context 3541, Sample 3560/BS2

'lime' concretions	2 max 30 mm
ash concretions	2 max 60 mm
bird bone	1
charcoal	2 max 10 mm
fish bone	2
mammal bone	1 max 100 mm
snails	1

Context 3558, Sample 3575/BS2

bird bone	1
charcoal	1 max 10 mm
fish bone	1
mammal bone	2 max 140 mm

Context 3582, Sample 3602/T2

bone fgts	1 max 60 mm
charcoal	1 max 10 mm
sand	4

Context 3597, Sample 3601/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 3597, Sample 4503/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 3605, Sample 3698/T2

bone fgts	1 max 40 mm
charcoal	2 max 10 mm
sand	3
stones	1 max 30 mm

Context 3672, Sample 3862/T2

bird bone	1 max 30 mm
charcoal	1 max 10 mm
mammal bone	1 max 100 mm
sand	4
stones	1 max 50 mm

Context 3715, Sample 3869/BS2

?daub	1 max 10 mm
bone fgts	1 max 40 mm
charcoal	1 max 5 mm
fish bone	1
limestone	1 max 50 mm
root/rootlet fgts (modern)	1
sand	1
small mammal bone	1

Context 3715, Sample 3897/BS2

?daub	1 max 3 mm
bone fgts	1 max 10 mm
charcoal	1 max 5 mm
root/rootlet fgts (modern)	1
sand	1

Context 3758: Phase 4ii, dump**Context 3758, Sample 5183/BS**

bone fgts	1
charcoal	2 max 25 mm
Corylus avellana (ch)	1
fish bone	1

Context 3758, Sample 5183/T

bone fgts	1
charcoal	3 max 20 mm
gravel	1
root/rootlet fgts	2
sand	3

Context 3758, Sample 5184/BS

'ash beads'	1
bird bone	1
bone fgts	2
burnt bone fgts	1
charcoal	2 max 25 mm
glass	1

Context 3758, Sample 5396/BS

'ash beads'	2
ash	3
bone fgts	2
burnt bone fgts	1

charcoal	3 max 20 mm
charred buds	1
charred herbaceous detritus	1
glassy slag	1
gravel	1
root/rootlet fgts (modern)	1

Context 3758, Sample 5396/T

bone fgts	1
charcoal	2 max 20 mm
root/rootlet fgts	2
sand	4

Context 3758, Sample 5415/BS

'lime' concretions	1 max 20 mm
bird bone	1
bone fgts	2 max 100 mm
brick/tile	1 max 25 mm
burnt bone fgts	1 max 30 mm
Cerealia indet.	1
charcoal	2 max 15 mm
fish bone	1
root/rootlet fgts (modern)	1
small mammal bone	1
teeth	1
twigs (ch)	1 max 20 mm

Context 3758, Sample 5422/SPT

cf. Betula (charcoal)	1 max 50 mm
Quercus (charcoal)	1 max 40 mm

Context 3758, Sample 5490/SPT

cf. Betula (charcoal)	1 max 40 mm
-----------------------	-------------

Context 3758, Sample 5494/BS

bird bone	1
bone fgts	1 max 100 mm
charcoal	2 max 30 mm
fish bone	1
oyster shell fgts	1 max 60 mm
root/rootlet fgts (modern)	1
twigs (ch)	1 max 30 mm
unwashed sediment	1

Context 3758, Sample 6287/BS (10 kg)

?charred bread	1 max 25 mm
bird bone	1
bone fgts	2 max 150 mm
burnt bone fgts	1 max 30 mm
Cerealia indet.	1
cf. Pisum sativum	1
cf. Vicia faba	1
charcoal	1 max 30 mm
Corylus avellana (ch)	1
fish bone	1
Leguminosae	1
limestone	1 max 40 mm
oyster shell fgts	1 max 50 mm
root/rootlet fgts (modern)	1

Context 3758, Sample 6287/T (1 kg, assessment only)

'ash beads'	1
bone fgts	2
cf. Cerealia indet.	1 1 spec
charcoal	2 max 20 mm
mussel shell fgts	1
root/rootlet fgts	1
sand	3
Vicia faba	1 1 spec

Context 3758, Sample 8775/SPT

Alnus (charcoal)	2 max 60 mm
------------------	-------------

Context 3758, Sample 10027/BS

?tufa	1 max 60 mm
charcoal	1 max 30 mm
Fraxinus excelsior (charcoal)	1 max 30 mm
Quercus (charcoal)	1 max 25 mm
Salix/Populus sp(p). (charcoal)	1 max 15 mm
snails	1

Context 3758, Sample 10027/T

'ash beads'	1
bone fgts	1
charcoal	2 max 10 mm
insects	1
root/rootlet fgts	2
sand	3
snails	1

Context 3758, Sample 10044/BS

Alnus/Corylus (charcoal)	2 max 40 mm
bone fgts	2
charcoal	2 max 40 mm
glassy slag	1
pottery	1
Quercus (charcoal)	1 max 25 mm
snails	1

Context 3758, Sample 10328/BS

?concretions	1
amphibian bone	1
bird bone	1
bone fgts	1
charcoal	1 max 20 mm
fish bone	1
snails	1

Context 3758, Sample 11466/BS

bone fgts	1
charcoal	2 max 40 mm
fish bone	1
glassy slag	1
limestone	1
Quercus (charcoal)	1 max 40 mm
small mammal bone	1
snails	1

Context 3758, Sample 11467/BS

bone fgts	1
charcoal	2 max 30 mm
Corylus avellana (charcoal)	1 max 15 mm
Fraxinus excelsior (charcoal)	1 max 50 mm
limestone	1
Quercus (charcoal)	1 max 30 mm
Salix/Populus sp(p). (charcoal)	1 max 25 mm
snails	1

Context 3758, Sample 11469/BS

charcoal	1
glassy slag	1
iron-rich slag	1
Quercus (charcoal)	1
unwashed sediment	1

Context 3758, Sample 11494/BS

?concretions	1
bird bone	1
bone fgts	1
charcoal	2
glassy slag	1
oyster shell fgts	1
Salix/Populus sp(p). (charcoal)	1 max 10 mm

Context 3758, Sample 11513/BS

bird bone	1
bone fgts	1
cf. Leguminosae	1
charcoal	2 max 30 mm
charred herbaceous detritus	1
fish bone	1
glassy slag	1
snails	1

Context 3758, Sample 11513/T

'ash beads'	1
bone fgts	1
charcoal	3 max 30 mm
gravel	1
sand	3

Context 3758, Sample 12215/BS

bird bone	1
bone fgts	2
charcoal	2 max 30 mm
oyster shell fgts	1
small mammal bone	1

Context 3758, Sample 12215/T

bone fgts	2
charcoal	3 max 30 mm
gravel	1
root/rootlet fgts	2
sand	4

Context 3758, Sample 13916/SPT

Corylus avellana (ch)	1
-----------------------	---

Context 3879, Sample 3880/T2

charcoal	1 max 5 mm
sand	4

Context 3891, Sample 3921/BS

?tufa	1
bone fgts	1
charcoal	2 max 10 mm
fish bone	1
glassy slag	1
root/rootlet fgts (modern)	2
Triticum sp(p).	1 1 spec

Context 3891, Sample 3921/T

bone fgts	1
charcoal	1 max 10 mm
gravel	1
root/rootlet fgts (modern)	2
sand	3

Context 3891, Sample 4094/BS

?lava quern fgts	1
bone fgts	1
charcoal	2
fish bone	2
glassy slag	1
root/rootlet fgts (modern)	2
small mammal bone	2

Context 3891, Sample 4363/SPT

Quercus (charcoal)	1 max 40 mm
--------------------	-------------

Context 3891, Sample 4403/BS

bone fgts	3
charcoal	1 max 5 mm
fish bone	1
oyster shell fgts	1 very worn
root/rootlet fgts (modern)	1

Context 3891, Sample 4403/T

bone fgts	2
charcoal	1 max 5 mm
charred herbaceous detritus	1
gravel	1
marine mollusc shell fgts	1 very decayed
root/rootlet fgts	1
sand	4

Context 3891, Sample 4706/SPT

cf. Betula (charcoal)	1 max 40 mm
Corylus avellana (charcoal)	1 max 50 x 10 mm
Quercus (charcoal)	1 max 20 mm
Salix/Populus sp(p). (charcoal)	1 max 30 mm

Context 3891, Sample 5262/BS

bone fgts	1
-----------	---

charcoal	1 max 5 mm
oyster shell fgts	2

Context 3891, Sample 5262/T

bone fgts	2
charcoal	2 max 15 mm
oyster shell fgts	3
root/rootlet fgts	2
sand	3

Context 3891, Sample 5288/BS

bone fgts	3
charcoal	1 max 20 mm
glassy slag	1
root/rootlet fgts (modern)	1

Context 3891, Sample 5288/T

bone fgts	4
charcoal	1 max 15 mm
root/rootlet fgts	1
sand	3

Context 3891, Sample 5316/BS

'ash beads'	1
'pinched' stems (ch)	1
beetles	1 modern
bird bone	1
bone fgts	3
cf. Salix (charcoal)	1
charcoal	1 max 15 mm
Corylus avellana (charcoal)	1
eggshell fgts	1
fish bone	1 max 5 mm
Quercus (charcoal)	1
root/rootlet fgts (modern)	1
wood fgts	1 ?modern

Context 3891, Sample 5316/T

bone fgts	3
charcoal	2 max 10 mm
insects	1
root/rootlet fgts	1
sand	3

Context 3891, Sample 5317/BS

'ash beads'	1
ash	1
bone fgts	3
charcoal	2 max 15 mm
root/rootlet fgts (modern)	1
sand	1

Context 3891, Sample 5317/T

'ash beads'	1
bone fgts	2
charcoal	2 max 10 mm
root/rootlet fgts (modern)	2
sand	4

Context 3891, Sample 5331/BS

bone fgts	3
charcoal	1

Context 3896, Sample 3898/BS2

bird bone	1 max 30 mm
bone fgts	1 max 60 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 15 mm
Corylus avellana (charcoal)	1 max 10 mm
limestone	2 max 60 mm
Quercus (charcoal)	1 max 10 mm
Salix/Populus sp(p). (charcoal)	1 max 10 mm

Context 3911: Phase 3a, postpipe fill, bldg 1a**Context 3911, Sample 3912/BS2 (13 kg)**

'pinched' stems (ch)	1
cf. Leguminosae	1
Gramineae (ch)	1
Hordeum sp(p). (rachis fgts)	1
Juncus sp(p). (ch caps)	1
limestone	3 max 120 mm
oyster shell fgts	1 max 50 mm
Plantago maritima (ch caps)	1
snails	1
Urtica urens	1 modern

Context 3924, Sample 3946/SPT

Fraxinus excelsior (charcoal)	1 max 15 mm
-------------------------------	-------------

Context 3924, Sample 3947/SPT

Fraxinus excelsior (charcoal)	1 max 40 mm
-------------------------------	-------------

Context 3927, Sample 3929/SPT

cf. Quercus (charcoal)	1 max 10 mm
------------------------	-------------

Context 3944, Sample 3962/BS2

bone fgts	1 max 80 mm
charcoal	1 max 5 mm
gravel	3
oyster shell fgts	1 max 50 mm

Context 3966, Sample 4140/SPT

Fraxinus excelsior (charcoal)	1 max 10 mm
-------------------------------	-------------

Context 3968, Sample 3984/BS

bone fgts	1
gravel	2
pebbles	3 max 40 mm

Context 3976, Sample 3963/BS2

'lime' concretions	1 max 5 mm
bird bone	1
bone fgts	1 max 60 mm
charcoal	1 max 10 mm
fish bone	1

small mammal bone 1

Context 3981, Sample 3982/T2

charcoal 1 max 15 mm
mammal bone 1 max 150 mm
sand 4

Context 4009, Sample 4034/T2

'ash beads' 1
bone fgts 1 max 10 mm
charcoal 1 max 10 mm
sand 3
stones 2 max 60 mm

Context 4019, Sample 4150/SPT

Alnus (charcoal) 1 max 10 mm
bark fgts (ch) 1 max 30 mm
Corylus avellana (charcoal) 1 max 25 x 10 mm
Quercus (charcoal) 1 max 10 mm

Context 4023, Sample 4264/SPT

Alnus (charcoal) 1 max 25 mm
cf. Corylus avellana (charcoal) 1 max 10 mm
Quercus (charcoal) 1 max 10 mm

Context 4046, Sample 4088/BS2

bone fgts 1 max 50 mm
burnt bone fgts 1 max 10 mm
charcoal 1 max 30 mm
fish bone 1
grit 1

Context 4155, Sample 4360/SPT

Quercus (charcoal) 1 max 35 mm

Context 4177, Sample 4178/T2

'lime' concretions 1 max 5 mm
charcoal 1 max 10 mm
sand 4

Context 4194, Sample 5566/SPT

mortar 1

Context 4195, Sample 5433/BS2

bird bone 1
bone fgts 1 max 90 mm
burnt bone fgts 1 max 10 mm
charcoal 1 max 15 mm
fish bone 1
gravel 1
limestone 1 max 10 mm
root/rootlet fgts (modern) 1
snails 1

Context 4195, Sample 5433/T2

'ash beads' 1
bone fgts 1 max 30 mm
cf. *Hordeum* sp(p). 1
charcoal 1 max 10 mm

Corylus avellana (ch) 1 max 5 mm
root/rootlet fgts (modern) 1
sand 4
snails 1

Context 4209, Sample 4210/SPT

Quercus (charcoal) 1 max 15 mm

Context 4216, Sample 4217/T2

'ash beads' 1
'lime' concretions 2 max 15 mm
bone fgts 1 max 70 mm
charcoal 1 max 10 mm
iron-rich concretions 1 max 20 mm
root moulds (min) 1
sand 4
snails 1

Context 4223, Sample 4224/SPT

Corylus avellana (ch) 1
Quercus (charcoal) 1 max 10 mm

Context 4242, Sample 4243/T2

'lime' concretions 2 max 20 mm
bone fgts 1 max 110 mm
charcoal 1 max 5 mm
sand 3

Context 4287, Sample 4289/T2

'lime' concretions 2 max 5 mm
charcoal 1 max 5 mm
sand 4
stones 1 max 30 mm

Context 4376, Sample 4377/BS2

bone fgts 1 max 20 mm
charcoal 1 max 10 mm
gravel 1
grit 1
limestone 1 max 30 mm
root/rootlet fgts (modern) 1

Context 4410, Sample 4411/BS2

bone fgts 1 max 15 mm
charcoal 1 max 5 mm
grit 1
limestone 1 max 15 mm

Context 4478, Sample 4472/SPT

Salix/Populus sp(p). (charcoal) 1 max 10 mm

Context 4480, Sample 4481/BS2

'lime' concretions 1 max 5 mm
bone fgts 1 max 15 mm
charcoal 1 max 10 mm
grit 1
snails 1

Context 4506, Sample 4513/T2

charcoal	1 max 2 mm
sand	3

Context 4573, Sample 4937/BS2

?daub	1 max 10 mm
bone fgts	1 max 10 mm
charcoal	1 max 10 mm
limestone	1 max 20 mm
root/rootlet fgts (modern)	2

Context 4588, Sample 4614/BS2

bone fgts	1 max 70 mm
charcoal	1 max 5 mm
grit	1
limestone	1 max 15 mm
snails	1

Context 4616: Phase 3bi-3bv, posthole fill

Context 4616, Sample 4617/BS 10 kg

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	1 max 10 mm
cf. <i>Hordeum</i> sp(p).	1 1 spec
charcoal	1 max 10 mm
Chenopodiaceae (ch)	1
fish scale	1
Gramineae (ch)	1
<i>Juncus</i> sp(p). (ch caps)	1
<i>Quercus</i> (charcoal)	1 max 10 mm
root/rootlet fgts (modern)	1
snails	1

Context 4621, Sample 4622/T

?brick/tile	2
charcoal	1 max 10 mm
root/rootlet fgts	1
sand	3
snails	1

Context 4624: Phase 2, soakaway fill

Context 4624, Sample 4661/BS

<i>Quercus</i> (charcoal)	1 max 10 mm
---------------------------	-------------

Context 4624, Sample 4662/BS (12 kg)

'ash beads'	2
'pinched' stems (ch)	2
ash concretions	2 max 10 mm
<i>Atriplex</i> sp(p). (ch)	1
cf. <i>Avena</i> sp(p).	1 fgts only
charcoal	1 max 5 mm
Chenopodiaceae (ch)	1
<i>Corylus avellana</i> (charcoal)	1 max 10 mm
<i>Eleocharis palustris</i> sl (ch)	1
Gramineae (ch c/n)	1

Gramineae (ch)	1
<i>Hordeum</i> sp(p). (inc hulled)	1
<i>Juncus</i> sp(p). (ch caps)	1
Leguminosae (ch pods/fgts)	1 very small type(s)
<i>Plantago maritima</i> (ch caps)	1
<i>Plantago maritima</i> (ch)	1
<i>Ranunculus sardous</i> (ch)	1
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
snails	1

Context 4624, Sample 4664/BS (9 kg)

'ash beads'	2
'pinched' stems (ch)	2
ash concretions	2 max 50 mm
bird tracheal ring	1
bone fgts	1 max 65 mm
cf. <i>Puccinellia maritima</i> (culm fgts)	1
charcoal	1 max 5 mm
charred seaweed	1
<i>Eleocharis palustris</i> sl (ch)	1
fish scale	1
<i>Juncus</i> sp(p). (ch caps)	1
<i>Plantago maritima</i> (ch caps)	1
<i>Plantago maritima</i> (ch)	1
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
snails	1

Context 4624, Sample 4664/T2

ash concretions	4 max 30 mm
baked clay/daub	1 max 20 mm
charcoal	1 max 5 mm

Context 4624, Sample 4665/T

'ash beads'	1
charcoal	1 max 5 mm
charred herbaceous detritus	2
root/rootlet fgts	2
sand	1

Context 4634, Sample 4643/SPT

charcoal	1 max 10 mm
----------	-------------

Context 4638, Sample 4639/BS

'pinched' stems (ch)	1
bird bone	2
bone fgts	3
charcoal	1 max 15 mm
charred herbaceous detritus	1
fish bone	2
fish scale	1
glassy slag	1
mammal bone	1
pebbles	1
root/rootlet fgts (modern)	1
snails	1

Context 4638, Sample 5337/BS

?concretions	1 max 50 mm
bird bone	1
bone fgts	3
charcoal	1 max 10 mm
charred herbaceous detritus	1 1 spec
Coniferae (wood)	1 ?modern
eggshell fgts	1
fish bone	1
fish scale	1
glassy slag	1
mammal bone	1
root/rootlet fgts (modern)	1

Context 4641, Sample 4642/T2

charcoal	1 max 15 mm
sand	3

Context 4645, Sample 4649/T2

'lime' concretions	2 max 25 mm
bone fgts	1 max 90 mm
charcoal	1 max 10 mm
fish bone	1 max 10 mm
sand	3
snails	1

Context 4650, Sample 4652/T

bone fgts	2
charcoal	2 max 10 mm
Corylus avellana (charcoal)	1 max 10 mm
gravel	1
Quercus (charcoal)	1 max 15 mm
root/rootlet fgts	1
sand	3

Context 4650, Sample 4670/T

bone fgts	1
charcoal	1 max 10 mm
charred herbaceous detritus	1
eggshell fgts	1
root/rootlet fgts	2
sand	4

Context 4654, Sample 4667/T2

bird bone	1 max 60 mm
charcoal	1 max 5 mm
fish bone	1 max 5 mm
mammal bone	1 max 120 mm
sand	3
snails	1

Context 4675: Phase 4i-4ii, trench fill**Context 4675, Sample 4720/BS (12 kg)**

'pinched' stems (ch)	1
?Cenococcum (sclerotia)	1
bone fgts	1 max 5 mm
cf. Puccinellia maritima (culm fgts)	1

charcoal	1 max 5 mm
fish bone	1 max 2 mm
Juncus sp(p). (ch caps)	1
root/rootlet fgts (modern)	1
Rubus sp(p). (ch)	1 fgts only

Context 4679, Sample 4692/BS2

'lime' concretions	1 max 10 mm
bone fgts	1 max 30 mm
charcoal	1 max 5 mm
fish bone	1
limestone	1 max 30 mm
snails	1

Context 4689, Sample 4690/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 70 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 15 mm
fish bone	1
fish scale	1
limestone	1 max 25 mm
teeth	1

Context 4716, Sample 4727/BS

'ash beads'	1
'pinched' stems (ch)	1
bird tracheal ring	1
bone fgts	1 max 5 mm
charcoal	1 max 10 mm
Quercus (charcoal)	1 max 10 mm

Context 4741, Sample 4783/T2

?mortar	1 max 5 mm
bone fgts	1 max 15 mm
burnt bone fgts	1 max 15 mm
charcoal	1 max 5 mm
sand	4

Context 4748, Sample 4758/BS2

'lime' concretions	1 max 10 mm
?faecal concretions	1 max 15 mm
bone fgts	1 max 10 mm
charcoal	1 max 5 mm
flint	1 max 10 mm
grit	1
root/rootlet fgts (modern)	1
sandstone	1 max 25 mm

Context 4754, Sample 4755/SPT

Corylus avellana (charcoal)	1 max 10 mm
-----------------------------	-------------

Context 4754, Sample 4940/SPT

Salix/Populus sp(p). (charcoal)	1 max 30 mm
---------------------------------	-------------

Context 4761, Sample 4773/SPT

Quercus (charcoal)	1 max 30 mm
--------------------	-------------

Context 4769, Sample 4946/BS2

charcoal	1 max 10 mm
concreted sediment	1 max 20 mm
root/rootlet fgts (modern)	1

Context 4769, Sample 4990/BS2

?daub	1 max 5 mm
bone fgts	1 max 30 mm
charcoal	1 max 10 mm
grit	1
root/rootlet fgts (modern)	1

Context 4792, Sample 4793/BS2

'lime' concretions	1 max 5 mm
baked clay/daub	1 max 30 mm
bird bone	1
bone fgts	1 max 40 mm
burnt bone fgts	1 max 15 mm
charcoal	2 max 20 mm
limestone	1 max 30 mm
root/rootlet fgts (modern)	1
small mammal bone	1

Context 4821, Sample 4876/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
concreted sediment	1
fish bone	1
limestone	1 max 10 mm
root/rootlet fgts (modern)	1

Context 4849, Sample 4856/T2

bone fgts	1 max 30 mm
charcoal	1 max 10 mm
sand	3

Context 4851, Sample 4852/T2

charcoal	1 max 15 mm
eggshell fgts	1 max 10 mm
fish scale	1
mammal bone	2 max 110 mm
root/rootlet fgts (modern)	1
sand	4
stones	1 max 25 mm

Context 4879, Sample 4880/T2

charcoal	1 max 5 mm
sand	4

Context 4899, Sample 4922/T2

bone fgts	1 max 10 mm
charcoal	1 max 15 mm
root/rootlet fgts (modern)	1
sand	4

Context 4901, Sample 4929/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 50 mm

charcoal	1 max 15 mm
gravel	1 max 30 mm
root/rootlet fgts (modern)	1

Context 4906, Sample 4907/BS2

bone fgts	1 max 10 mm
charcoal	1 max 5 mm
fish bone	1
gravel	1 max 30 mm
grit	1

Context 4914, Sample 4915/BS2

bone fgts	1 max 20 mm
charcoal	1 max 10 mm
fish bone	1
root/rootlet fgts (modern)	1
sand	1

Context 4920: Phase 4i-4ii, posthole fill**Context 4920, Sample 4939/SPT (0.028 g)**

Coniferae (charcoal)	1 max 35 mm
----------------------	-------------

Context 4927, Sample 4930/BS2

'lime' concretions	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1

Context 4932, Sample 4933/BS2

'ash beads'	1
'pinched' stems (ch)	1
?daub	1 max 10 mm
beetles (contaminant)	1
bone fgts	1 max 40 mm
Carduus/Cirsium sp(p).	1 ?modern
charcoal	1 max 5 mm
Chenopodium album	1 ?modern
earthworm egg caps	1
earthworm egg caps (min)	1
fish scale	1
Gramineae (ch c/n)	1
gravel	1
root/rootlet fgts (modern)	1

Context 4949, Sample 4964/BS2

?daub	1
bone fgts	1 max 30 mm
burnt stone	1
charcoal	1 max 10 mm
earthworm egg caps (min)	1
fish bone	1
limestone	1 max 40 mm
oyster shell fgts	1 max 40 mm
root/rootlet fgts (modern)	1

Context 4950: Phase 2, occupation deposit (floor)**Context 4950, Sample 5106/BS2**

bone fgts	1 max 60 mm
charcoal	1 max 5 mm
concreted sediment	1 max 10 mm
limestone	1 max 40 mm
root moulds (min)	1
root/rootlet fgts (modern)	1

Context 4950, Sample 5108/BS2 (9 kg)

bone fgts	1 max 100 mm
burnt bone fgts	1 max 20 mm
burnt stone	1 max 50 mm
Cannabis sativa (ch)	1
Cerealia indet.	1
cf. Avena sp(p).	1
charcoal	2 max 25 mm
Chenopodium album	1
Corylus avellana (charcoal)	1
Gramineae/Cerealia (ch c/n)	1
insects (contaminant)	1
Lapsana communis (ch)	1
root/rootlet fgts (modern)	1
Rumex sp(p). (ch)	1
Triticum cf. aestivo-compactum	1

Context 4957, Sample 4958/T2

bone fgts	1 max 15 mm
charcoal	1 max 10 mm
eggshell fgts	1 max 5 mm
fish bone	1 max 5 mm
sand	4

Context 4960, Sample 4961/BS2

bone fgts	1 max 20 mm
charcoal	1 max 10 mm
fish bone	1
limestone	1 max 30 mm

Context 4963, Sample 5141/BS2

bird bone	1
bone fgts	2 max 120 mm
charcoal	1 max 10 mm
fish bone	1
limestone	2 max 60 mm
root/rootlet fgts (modern)	1

Context 4967, Sample 4965/T2

?Cenococcum (sclerotia)	1
bone fgts	1 max 40 mm
charcoal	1 max 10 mm
root/rootlet fgts (modern)	1
Sambucus nigra specimen	1 a single, modern,
sand	4

Context 4969, Sample 4970/BS2

bone fgts	1 max 90 mm
-----------	-------------

charcoal	1 max 10 mm
concreted sediment	1 max 25 mm
fish bone	1
root/rootlet fgts (modern)	1
sand	1

Context 4971, Sample 5010/SPT

Corylus avellana (charcoal)	1 max 10 mm
-----------------------------	-------------

Context 4975, Sample 4976/T2

'lime' concretions	1 max 10 mm
?Cenococcum (sclerotia)	1
charcoal	1 max 10 mm
earthworm egg caps	1
root/rootlet fgts (modern)	1
sand	4

Context 4992, Sample 4993/BS2

bone fgts	1 max 30 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
fly puparia	1 modern
limestone	1 max 30 mm
root/rootlet fgts (modern)	2
sand	1

Context 4995, Sample 4996/BS2

bone fgts	1 max 40 mm
charcoal	1 max 10 mm
fish bone	1
root/rootlet fgts (modern)	1
sand	1
teeth	1

Context 5031, Sample 5073/T

Cenococcum (sclerotia)	2
charcoal	1 max 5 mm
charred herbaceous detritus	1
sand	4

Context 5045, Sample 5046/T2

?Fe object(s)	1
bone fgts	1 max 130 mm
charcoal	1 max 10 mm
fish bone	1
fish scale	1
sand	4

Context 5059, Sample 5067/T2

charcoal	1 max 3 mm
sand	4
stones	1 max 15 mm

Context 5093, Sample 5094/BS2

baked clay/daub	1 max 60 mm
charcoal	1 max 15 mm
concreted sediment	1
flint	1 max 35 mm

gravel	1	max 30 mm
root/rootlet fgts (modern)	1	

Context 5099, Sample 5100/BS2

bone fgts	1	max 10 mm
charcoal	1	max 5 mm
fish bone	1	
grit	1	
limestone	1	max 20 mm

Context 5102, Sample 5103/T2

charcoal	1	max 5 mm
sand	4	

Context 5112, Sample 5113/BS2

charcoal	1	max 20 mm
limestone	1	max 20 mm
root/rootlet fgts (modern)	1	
sand	1	

Context 5127, Sample 5128/BS2

bone fgts	1	max 10 mm
charcoal	1	max 5 mm
sand	1	

Context 5133, Sample 5134/BS2

bone fgts	1	max 10 mm
charcoal	1	max 5 mm
gravel	1	max 15 mm
grit	1	

Context 5137, Sample 5135/BS2

charcoal	1	max 5 mm
limestone	1	max 20 mm
root/rootlet fgts (modern)	1	

Context 5139, Sample 5662/BS2

'lime' concretions	1	max 5 mm
bone fgts	1	max 50 mm
burnt bone fgts	1	max 30 mm
Cerealia indet.	1	
charcoal	1	max 10 mm
limestone	1	max 40 mm
root/rootlet fgts (modern)	1	

Context 5145, Sample 5146/BS2

baked clay/daub	1	max 10 mm
burnt bone fgts	1	max 10 mm
charcoal	1	max 10 mm
grit	1	

Context 5162, Sample 5161/T2

ash concretions	1	max 15 mm
sand	3	
stones	1	max 15 mm

Context 5166, Sample 5164/BS2

bone fgts	1	max 20 mm
charcoal	1	max 30 mm

Quercus (charcoal)	1	max 30 mm
root/rootlet fgts (modern)	1	
sand	1	

Context 5193, Sample 5191/BS2

bird bone	1	
bird tracheal ring	1	
bone fgts	2	max 80 mm
charcoal	2	max 15 mm
fish bone	1	
limestone	1	max 90 mm
oyster shell fgts	1	v dec, max 20 mm
root/rootlet fgts (modern)	1	
small mammal bone	1	
teeth	1	

Context 5241, Sample 5239/BS2

bone fgts	1	max 110 mm
burnt bone fgts	1	max 5 mm
eggshell fgts	1	max 10 mm
gravel	1	max 10 mm
grit	1	

Context 5248, Sample 5249/BS2

bone fgts	1	max 20 mm
charcoal	1	max 5 mm
fish bone	1	
flint	1	max 10 mm
grit	1	
limestone	1	max 20 mm
root/rootlet fgts (modern)	1	

Context 5369: Phase 2-3a, dump**Context 5369, Sample 5524/BS2 (10 kg)**

'ash beads'	1	
'pinched' stems (ch)	2	
?tufa	1	max 40 mm
bird bone	2	
bone fgts	3	max 110 mm
charcoal	1	max 15 mm
charred seaweed	1	
fish scale	1	
Juncus sp(p). (ch caps)	1	
oyster shell fgts	1	max 60 mm
Plantago maritima (ch caps)	1	
Plantago maritima (ch)	1	
root/rhizome fgts (ch)	1	
root/rootlet fgts (modern)	1	
snails	2	
teeth	1	

Context 5369, Sample 5552/BS2

?daub	1	max 5 mm
bird bone	1	
bone fgts	3	max 60 mm
burnt bone fgts	1	max 5 mm
charcoal	1	max 10 mm

fish bone	1
limestone	1 max 70 mm
root/rootlet fgts (modern)	1
twig fgts (ch)	1 max 15 mm

Context 5369, Sample 5564/SPT

ash	1
wood fgts (min)	1 max 30 mm

Context 5369, Sample 5691/T2

ash concretions	4 max 60 mm
bone fgts	1 max 30 mm
charcoal	1 max 5 mm
charred herbaceous detritus	1
root/rootlet fgts (modern)	1
sand	1

Context 5369, Sample 6765/BS2 (16 kg)

'ash beads'	1
'pinched' stems (ch)	2
?daub	3 max 30 mm
?spirorbids	1
barnacle shell fgts	1
bird tracheal ring	1
bone fgts	2 max 150 mm
cf. Carex sp(p). (ch)	1
cf. Puccinellia maritima (culm fgts)	1
cf. Puccinellia sp(p). (ch)	1
cf. Rumex sp(p). (ch)	1
cf. Salix (charcoal)	1 max 10 mm
charcoal	1 max 10 mm
charred seaweed	2 max 10 mm
Chenopodiaceae (ch)	1
cockle shell fgts	1 max 30 mm
Corylus avellana (ch)	1 max 2 mm
Corylus avellana (charcoal)	1 max 10 mm
crab shell fgts	1
eggshell fgts	1 max 2 mm
fish bone	1 max 10 mm
fish scale	1
glassy slag	1 max 15 mm
Gramineae (ch)	1 small type(s)
Juncus sp(p). (ch caps)	1
limestone	1 max 40 mm
oyster shell fgts	1 max 50 mm
Plantago cf. lanceolata (ch)	1
Polygonum persicaria (ch)	1
root/rootlet fgts (modern)	1
snails	2
snails (ch)	1
Suaeda maritima (ch)	1 1 spec
Triticum aestivo-compactum	1
winkle shells/fgts	1 max 10 mm

Context 5373, Sample 5437/BS2

'lime' concretions	1 max 20 mm
bird bone	1
bone fgts	1 max 40 mm
brick/tile	1 max 15 mm

burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
limestone	1 max 40 mm
metallic slag	1 max 25 mm
oyster shell fgts	1 max 10 mm
root/rootlet fgts (modern)	1

Context 5503, Sample 5520/BS

amphibian bone	1
bird bone	1
bone fgts	3
charcoal	2 max 25 mm
fish bone	1
root/rootlet fgts (modern)	1

Context 5503, Sample 5520/T

bone fgts	2
charcoal	2 max 20 mm
root/rootlet fgts	1
sand	4

Context 5503, Sample 5541/BS

bone fgts	3
charcoal	2 max 25 mm
bone fgts	1
charcoal	3 max 10 mm
root/rootlet fgts (modern)	2
sand	3

Context 5503, Sample 6181/BS

bone fgts	3
charcoal	1 max 15 mm
root/rootlet fgts (modern)	1

Context 5503, Sample 6181/T

bone fgts	2
charcoal	2 max 20 mm
gravel	1
root/rootlet fgts	1
sand	3

Context 5503, Sample 6182/BS

ash	1
bone fgts	3
charcoal	2 max 10 mm
Quercus (charcoal)	2 max 20 mm
Salix/Populus sp(p). (charcoal)	1 max 10 mm
sand	1

Context 5503, Sample 6254/BS

bird bone	1
bone fgts	3 max 150 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1 max 40 mm
root/rootlet fgts (modern)	1

Context 5553, Sample 5613/T2

'char'	1	max 15 mm
burnt bone fgts	1	max 20 mm
charcoal	2	max 15 mm
charred herbaceous detritus	1	
sand	4	
stones	1	max 20 mm

Context 5553, Sample 5796/BS2

'lime' concretions	2	max 5 mm
bird bone	1	
bone fgts	1	max 90 mm
burnt bone fgts	1	max 25 mm
burnt stone	1	max 30 mm
charcoal	1	max 20 mm
fish bone	1	
glass	1	
gravel	1	
grit	1	
gritstone	1	max 80 mm
limestone	1	max 45 mm
root/rootlet fgts (modern)	1	
snails	1	
woody root fgts (modern)	1	

Context 5553, Sample 5976/SPT

Quercus (charcoal)	1	max 15 mm
--------------------	---	-----------

Context 5553, Sample 13914/SPT

Corylus avellana (ch)	1	
-----------------------	---	--

Context 5555, Sample 5614/BS2

'lime' concretions	1	max 5 mm
bird bone	1	
bone fgts	1	max 70 mm
burnt bone fgts	1	max 20 mm
charcoal	1	max 20 mm
Fe object(s)	1	
fish bone	1	
limestone	1	max 100 mm
root/rootlet fgts (modern)	1	

Context 5617, Sample 6416/BS

bone fgts	3	
charcoal	2	max 25 mm
land snails	1	

Context 5617, Sample 6429/BS

?tufa	1	
baked clay/daub	1	
bird bone	2	
bone fgts	3	
charcoal	1	max 5 mm
fish bone	2	
oyster shell fgts	1	
root/rootlet fgts (modern)	1	

Context 5617, Sample 6429/T

'ash beads'	1	
-------------	---	--

?daub	2	
bone fgts	3	
charcoal	1	max 10 mm
charred herbaceous detritus	1	
gravel	1	
root/rootlet fgts	1	
sand	3	

Context 5617, Sample 6435/BS

baked clay/daub	1	
bird bone	1	
bone fgts	2	
charcoal	1	
fish bone	1	
oyster shell fgts	1	
root/rootlet fgts (modern)	1	

Context 5617, Sample 6435/T2

'ash beads'	1	
amphibian bone	1	
baked clay/daub	1	max 45 mm
bird bone	1	max 30 mm
charcoal	1	max 15 mm
charred herbaceous detritus	1	
fish bone	1	max 10 mm
mammal bone	2	max 80 mm
root/rootlet fgts (modern)	1	
sand	3	
stones	1	max 80 mm

Context 5617, Sample 6654/BS

bird bone	1	
bone fgts	3	
charcoal	1	
fish bone	1	
root/rootlet fgts (modern)	1	

Context 5617, Sample 13819/SPT

Corylus avellana (ch)	1	fgts only
-----------------------	---	-----------

Context 5640, Sample 13915/SPT

Corylus avellana (ch)	1	fgts only
-----------------------	---	-----------

Context 5640, Sample 13915/SPT

Prunus domestica ssp. insititia (ch)	1	fgts only
--------------------------------------	---	-----------

Context 5659, Sample 5664/BS2

'lime' concretions	1	max 10 mm
bone fgts	2	max 110 mm
burnt bone fgts	1	max 20 mm
charcoal	2	max 20 mm
fish bone	1	
limestone	1	max 30 mm
root/rootlet fgts (modern)	1	

Context 5842, Sample 5843/SPT

Corylus avellana (charcoal)	1	max 5 mm
Quercus (charcoal)	1	max 10 mm

Context 5849, Sample 5897/BS2

'lime' concretions	1 max 5 mm
amphibian bone	1
baked clay/daub	1 max 15 mm
bird bone	1
bird tracheal ring	1
bone fgts	1 max 170 mm
charcoal	1 max 20 mm
Corylus avellana (charcoal)	1 max 10 mm
fish bone	1
gravel	1
grit	1
oyster shell fgts	1 max 50 mm
Quercus (charcoal)	1 max 5 mm
root/rootlet fgts (modern)	1
Salix/Populus sp(p). (charcoal)	1 max 5 mm
snails	1

Context 5856, Sample 6256/BS2

?daub	1 max 10 mm
bird bone	1
bone fgts	2 max 150 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 5 mm
limestone	1 max 70 mm
oyster shell fgts	1 max 60 mm
pottery	1 max 30 mm
root/rootlet fgts (modern)	1
teeth	1

Context 5864, Sample 5937/T

bone fgts	1
Cerealia indet.	1
charcoal	1 max 10 mm
charred herbaceous detritus	1
root/rootlet fgts	2
sand	4
Triticum aestivo-compactum	1

Context 5865, Sample 5947/T

Cenococcum (sclerotia)	1
charcoal	1 max 5 mm
root/rootlet fgts	2
sand	4

Context 5871, Sample 13917/SPT

Corylus avellana (ch)	1 fgts only
Prunus domestica ssp. insititia (ch)	1 fgts only

Context 5930: Phase 6i, trench fill, bldg 7

Context 5930, Sample 5962/BS (12 kg)

'ash beads'	1
'pinched' stems (ch)	2
?charred sea weed	1
ash concretions	1 max 10 mm
Bromus sp(p).	1
Carex sp(p). (ch)	1

cf. Pisum sativum (ch cot)	1 max 5 mm
cf. Trifolium sp(p).	1
charcoal	2 max 20 mm
Chenopodium album (ch)	1
Corylus avellana (charcoal)	1 max 20 mm
Eleocharis palustris sl (ch)	1
Galium aparine (ch)	1
Gramineae (ch)	1
Hordeum sp(p).	1 fgts only
Juncus sp(p). (ch caps)	1
Linum usitatissimum (ch)	1
Quercus (charcoal)	1 max 5 mm
Ranunculus cf. sardous (ch)	1
root/rhizome fgts (ch)	1 max 5 mm
root/rootlet fgts (modern)	2
Rumex sp(p). (ch)	1
snails	1
twig fgts	1 max 10 mm

Context 5930, Sample 6951/BS2

'ash beads'	1
bird bone	1
bone fgts	2 max 70 mm
charcoal	2 max 30 mm
fish bone	1
metallic slag	1 max 25 mm
Quercus (charcoal)	1 max 30 mm
snails	1
teeth	1

Context 5983: Phase 3b iv, dump

Context 5983, Sample 6681/BS

?daub	1
bone fgts	3
burnt bone fgts	1
charcoal	2 max 5 mm
fish bone	1
root/rootlet fgts (modern)	1

Context 5983, Sample 6780/BS (18 kg)

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	2 max 10 mm
bird bone	1
bone fgts	3
cf. Hordeum sp(p).	1
cf. Puccinellia maritima (culm fgts)	1
cf. Salix (charcoal)	1 max 10 mm
charcoal	2 max 10 mm
charred herbaceous detritus	2
Eleocharis palustris sl (ch)	1
fish bone	1 max 2 mm
fish scale	1
Fraxinus excelsior (charcoal)	1 max 10 mm
Gramineae (ch)	1
Juncus sp(p). (ch caps)	1
Quercus (charcoal)	1 max 10 mm

root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
snails	1
<hr/> Context 5983, Sample 10211/BS	
bone fgts	1
charcoal	1 max 5 mm
land snails	1
root/rootlet fgts (modern)	1
<hr/> Context 5983, Sample 10220/BS (8 kg)	
'pinched' stems (ch)	2
?daub	1
ash	2
bird bone	1
bone fgts	1
Bromus sp(p).	1
Carex sp(p). (ch)	2
cf. Puccinellia maritima (culm fgts)	1
charcoal	1 max 5 mm
charred herbaceous detritus	2
concretions	2
Eleocharis palustris sl (ch)	2
fly puparia	1 ?modern
glassy slag	2
Gramineae (ch)	1
Gramineae/Cerealina (ch c/n)	1
Juncus sp(p). (ch caps)	1
Leguminosae	1 very small type(s)
Medicago lupulina (ch pods/fgts)	1
oyster shell fgts	1
Plantago maritima (ch caps)	1
Polygonum aviculare agg. (ch)	1
Potentilla anserina (ch)	1
Ranunculus sardous (ch)	1
root/rootlet fgts (modern)	2
Scirpus lacustris sl (ch)	1
snails	1
Stellaria media (ch)	1
<hr/> Context 5983, Sample 10220/T	
?daub	1
bone fgts	1
charred herbaceous detritus	3
root/rootlet fgts	2
sand	1
<hr/> Context 5983, Sample 10221/BS (8 kg)	
'ash beads'	1
'pinched' stems (ch)	1
ash	3
baked clay/daub	1
bone fgts	2
Carex sp(p). (ch)	1
charcoal	1
charred herbaceous detritus	2
concretions	2
Eleocharis palustris sl (ch)	1
Eleocharis palustris sl (sil exo)	1

fish bone	1
Gramineae (ch)	1 small type(s)
Hordeum sp(p).	1 1 spec
Juncus sp(p). (ch caps)	1
land snails	1
oyster shell fgts	1
percid scale	1
Plantago maritima (ch caps)	1
Ranunculus sardous (ch)	1
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
slag	3
snails	1
<hr/> Context 5983, Sample 10221/T	
'ash beads'	2
bone fgts	1
charcoal	1 max 5 mm
charred herbaceous detritus	2
root/rootlet fgts	2
sand	1
<hr/> Context 5983, Sample 10222/BS	
'ash beads'	2
ash	3
bird bone	1
bone fgts	3
charcoal	1 max 10 mm
charred herbaceous detritus	1
root/rootlet fgts (modern)	1
<hr/> Context 5983, Sample 10240/BS	
charred herbaceous detritus	1
concretions	1
land snails	1
<hr/> Context 5983, Sample 10251/BS	
?burnt soil	1
?slag	1
charred herbaceous detritus	1
concretions	1
land snails	1
<hr/> Context 5983, Sample 10252/BS (14 kg)	
'pinched' stems (ch)	1
ash	3
?slag	3
bird bone	1
Bromus sp(p).	1
Carex sp(p). (ch)	1
Cerealina indet.	1
cf. Hordeum sp(p).	1 1 spec
cf. Puccinellia maritima (culm fgts)	1
charcoal	1
charred herbaceous detritus	2
concretions	2
Eleocharis palustris sl (ch)	1
Eleocharis palustris sl (sil exo)	1
Gramineae	1

Juncus sp(p). (ch caps)	1
mammal bone	1
Plantago maritima (ch caps)	1
Quercus (charcoal)	1
Ranunculus sardous (ch)	1
Rhinanthus sp(p). (ch)	1
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
snails	1
Triticum aestivo-compactum	1 1 spec

Context 5983, Sample 10252/T

'ash beads'	2
bone fgts	1
charcoal	1 max 5 mm
charred herbaceous detritus	2
root/rootlet fgts	2
sand	1

Context 5983, Sample 10253/BS

concretions	2
-------------	---

Context 5983, Sample 10254/BS

bone fgts	1
concretions	2

Context 5983, Sample 10254/T

'ash beads'	3
?daub	1
bone fgts	2
charred herbaceous detritus	2
eggshell fgts	1
root/rootlet fgts (modern)	2
sand	1

Context 5983, Sample 10288/BS (15 kg)

?daub	1 max 45 mm
Atriplex sp(p).	1 ?charred
beetles	1 modern
Bilderdykia convolvulus (ch ff)	1
bird bone	1
bone fgts	2
Carex sp(p).	1
Cerealia indet.	2
charcoal	1 max 20 mm
charred herbaceous detritus	2
charred seaweed	1
Chenopodiaceae (ch)	1
Chenopodium album (ch)	1 ?charred
concretions	2
Eleocharis palustris sl (ch)	1
fly puparia	1 ?modern
glassy slag	2
Hordeum sp(p).	1
Juncus sp(p). (ch caps)	1
oyster shell fgts	1
Plantago maritima (ch caps)	1
Quercus (charcoal)	1
Ranunculus sardous (ch)	1

root/rootlet fgts (modern)	2
Rumex sp(p). (ch)	1
Scirpus maritimus/lacustris (ch)	1
snails	2
Triticum aestivo-compactum	1

Context 5983, Sample 10288/T

?brick/tile	1
bone fgts	1
charcoal	1 max 5 mm
charred herbaceous detritus	1
lime/tufa	2
root/rootlet fgts	2
sand	3
snails	1

Context 5983, Sample 11629/BS

bone fgts	1
charcoal	1
charred herbaceous detritus	1
concretions	1

Context 5983, Sample 11648/BS

'ash beads'	1
bone fgts	1
charcoal	1 max 20 mm
concretions	1
snails	1

Context 5983, Sample 11671/BS

bone fgts	1
cf. Scirpus lacustris sl (ch)	1
charcoal	1
charred herbaceous detritus	1
concretions	1
snails	1

Context 5988, Sample 6980/BS2

'ash beads'	1
bird bone	1
bone fgts	1 max 30 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1
limestone	1 max 90 mm
root/rootlet fgts (modern)	1
small mammal bone	1
snails	1

Context 5992, Sample 5993/T2

'pinched' stems (ch)	1
bone fgts	1 max 30 mm
charred herbaceous detritus	1
daub	1 max 25 mm
root/rhizome fgts (ch)	1
root/rootlet fgts (modern)	1
sand	4
stones	1 max 20 mm

Context 6046, Sample 7216/BS

?daub	1
amphibian bone	1
bone fgts	1
charcoal	1 max 20 mm
fish bone	1
land snails	1
root/rootlet fgts (modern)	1
small mammal bone	1

Context 6046, Sample 7216/T2

bone fgts	1 max 10 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
sand	3
snails	1
stones	1 max 30 mm

Context 6136, Sample 6155/BS2

bone fgts	1 max 60 mm
charcoal	2 max 35 mm
stones	1 max 25 mm

Context 6136, Sample 6156/BS2

ash concretions	3 max 15 mm
charcoal	1 max 15 mm
snails	1
woody root fgts (modern)	1

Context 6136, Sample 6178/SPT (small find)

Quercus (charred wood)	1 max 35 mm
------------------------	-------------

Context 6235: Phase 3bv, dump

Context 6235, Sample 6401/BS

'lime' concretions	2
baked clay/daub	1
bone fgts	1
charcoal	1
root/rootlet fgts (modern)	1
snails	1

Context 6235, Sample 6412/BS

bird bone	1
bone fgts	3 max 240 mm
charcoal	1 max 10 mm
fish bone	1
oyster shell fgts	1 max 60 mm
root/rootlet fgts (modern)	1
teeth	1

Context 6235, Sample 6550/BS

bone fgts	1
pebbles	1
root/rootlet fgts (modern)	1

Context 6235, Sample 6555/BS

bone fgts	3
-----------	---

charcoal	1
concreted sediment	1
fish bone	2

Context 6235, Sample 6555/T2

bone fgts	3
charcoal	1 max 10 mm
fish bone	1
fish scale	1
sand	3

Context 6235, Sample 10132/BS

bone fgts	1
charcoal	1
concretions	1
land snails	1

Context 6235, Sample 10132/T

'ash beads'	1
bone fgts	2
charcoal	1 max 5 mm
charred herbaceous detritus	1
insects	1
root/rootlet fgts	2
sand	3

Context 6235, Sample 11549/BS

bone fgts	1
cf. Cerealia indet.	1 1 spec
charcoal	1
snails	1

Context 6235, Sample 11550/BS

?tufa	1 max 50 mm
bone fgts	1
charcoal	1

Context 6235, Sample 11569/BS

bone fgts	1
charcoal	1
oyster shell fgts	1
snails	1

Context 6235, Sample 11570/BS (16 kg)

'pinched' stems (ch)	1
?tufa	1
Atriplex sp(p). (ch)	1
bird bone	1
bone fgts	1
Carex sp(p). (ch)	2
cf. Avena sp(p).	1
charcoal	2
charred herbaceous detritus	1
Chenopodium album	1 ?charred
coal	1
concretions	2
Corylus avellana (ch)	1
Eleocharis palustris sl (ch)	1
fish bone	1

glassy slag	1	limestone	1 max 50 mm
Gramineae (ch)	1 small type(s)	oyster shell fgts	1 max 20 mm
Gramineae/Cerealina (ch c/n)	1	root/rootlet fgts (modern)	1
Heterodera (cysts)	1	snails	2
Hordeum sp(p).	1	teeth	1
mammal bone	1		
ostracods	1		
Quercus (charcoal)	1	Context 6300, Sample 6958/T	
root/rootlet fgts (modern)	1	bone fgts	1
snails	2	charcoal	1 max 15 mm
Triticum aestivo-compactum	1	gravel	1
		Heterodera (cysts)	1
		insects	1
Context 6235, Sample 11570/T		root/rootlet fgts	2
'ash beads'	1	sand	4
?daub	1	snails	1
bone fgts	1		
Cerealina indet.	1	Context 6366, Sample 10167/BS2	
charcoal	2 max 10 mm	?Fe object(s)	1
eggshell fgts	1	amphibian bone	1
lime/tufa	1	baked clay/daub	1 max 20 mm
sand	3	bird bone	1
Triticum aestivo-compactum	1	bone fgts	1 max 160 mm
		charcoal	1 max 5 mm
Context 6235, Sample 11572/BS		fish bone	1
?concretions	1	glassy slag	1 max 10 mm
bone fgts	1	limestone	1 max 80 mm
charcoal	1	reptile bone	1
land snails	1	root/rootlet fgts (modern)	1
Context 6235, Sample 11582/BS		Context 6372, Sample 10164/T2	
bone fgts	1	?daub	1 max 25 mm
charcoal	1	Cerealina indet.	1
concreted sediment	1	charcoal	1 max 10 mm
		metallic slag	1
Context 6235, Sample 11601/BS		sand	4
baked clay/daub	1		
bone fgts	1	Context 6373, Sample 10166/BS2	
charcoal	1	'lime' concretions	1 max 10 mm
		amphibian bone	1
Context 6300, Sample 6707/SPT		bone fgts	1 max 15 mm
Quercus (charcoal)	1 max 40 mm	burnt stone	1 max 60 mm
		charcoal	1 max 10 mm
Context 6300, Sample 6945/BS		fish bone	1
amphibian bone	1	limestone	1 max 40 mm
bone fgts	3		
cf. Hordeum sp(p).	1 1 spec	Context 6392, Sample 10386/BS2	
charcoal	1 max 15 mm	bone fgts	1 max 180 mm
fish bone	1	charcoal	1 max 10 mm
glassy slag	1	grit	1
root/rootlet fgts (modern)	2	snails	1
stone	1 max 50 mm		
		Context 6438, Sample 6436/BS2	
Context 6300, Sample 6958/BS		baked clay/daub	1 max 30 mm
?daub	1 max 30 mm	bird bone	1
bone fgts	2 max 100 mm	bone fgts	2 max 130 mm
charcoal	1 max 15 mm	charcoal	1 max 5 mm
fish bone	1	fish bone	1
fly puparia	1	oyster shell fgts	1 max 50 mm
Heterodera (cysts)	1	root/rootlet fgts (modern)	1

teeth	1	root/rootlet fgts (modern)	1
		slag	1 max 25 mm
		small mammal bone	1
		snails	1

Context 6446: Phase 3biv-3bv, pit fill

Context 6446, Sample 6448/BS2 (8 kg)

'ash beads'	1
'pinched' stems (ch)	2
?charred sea weed	1
ash concretions	3 max 20 mm
bone fgts	1 max 140 mm
charcoal	1 max 4 mm
fish bone	1
Gramineae (ch c/n)	1
Juncus sp(p). (ch caps)	2
Juncus sp(p). (ch)	2
Plantago maritima (ch caps)	2
Plantago maritima (ch)	1
root/rootlet fgts (modern)	1
teeth	1

Context 6456, Sample 6458/BS2

?daub	1 max 10 mm
bird bone	1
bone fgts	1 max 200 mm
burnt bone fgts	1 max 25 mm
charcoal	1 max 25 mm
root/rootlet fgts (modern)	1
Salix/Populus sp(p). (charcoal)	1 max 30 mm
snails	1

Context 6465: Phase 3bii, occupation deposit (yard)

Context 6465, Sample 10576/BS (18 kg)

'ash beads'	1
'pinched' stems (ch)	1
Cerealia indet.	1
Cerealia indet. (ch culm fgts)	1
cf. Umbelliferae (ch)	1
charcoal	1 max 15 mm
Hordeum sp(p).	1
Polygonum persicaria (ch)	1
Quercus (charcoal)	1 max 15 mm
root/rootlet fgts (modern)	1
Rumex sp(p). (ch)	1
Scirpus maritimus (ch)	1
small mammal bone	1
snails	1
Triticum aestivo-compactum	1

Context 6471, Sample 6556/BS2

bone fgts	1 max 70 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 20 mm
fish bone	1
grit	1
Hordeum sp(p).	1
limestone	1 max 20 mm

Context 6486, Sample 7448/BS2

baked clay/daub	3 max 80 mm
-----------------	-------------

Context 6487, Sample 9937/BS

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	1
beetles	1 ?modern
Bilderdykia convolvulus	1 ?modern
Cecilioides acicula	2
cf. Bromus sp(p).	1
charcoal	1 max 10 mm
Chenopodium album	1 ?modern
earthworm egg caps	1
fish scale	1 max 2 mm
Hordeum sp(p).	1
Juncus sp(p). (ch caps)	1
Polygonum aviculare agg.	1 ?modern
Silene vulgaris	1 ?modern
snails	1
Spergula arvensis	1 ?modern
Urtica urens	1 ?modern
Viola sp(p).	1 ?modern

Context 6489, Sample 6552/BS

charcoal	1 max 20 mm
earthworm egg caps	1
Fe nail(s)	1
gravel	1
root/rootlet fgts (modern)	1
snails	2

Context 6489, Sample 6552/T

charcoal	1 max 5 mm
gravel	2
insects	1
root/rootlet fgts	1
sand	3
snails	2

Context 6489, Sample 6554/BS

amphibian bone	1
bone fgts	1
charcoal	1 max 10 mm
gravel	1
oyster shell fgts	1
pebbles	1
snails	1

Context 6490, Sample 11031/BS

?daub	2
amphibian bone	1
bird bone	1
Cerealia indet.	1

charcoal	3 max 30 mm
charred herbaceous detritus	1
glassy slag	1
metallic slag	1
snails	1
stones	3

Context 6490, Sample 11031/T

'ash beads'	1
Cecilioides acicula	1
charcoal	3 max 15 mm
charred herbaceous detritus	1
gravel	1
insects	1
sand	2
snails	2

Context 6490, Sample 11044/BS (16 kg)

?charred bread	2
?daub	1
bird bone	1
bone fgts	1
burnt bone fgts	1
charcoal	2 max 25 mm
Quercus (charcoal)	1 max 30 mm
snails	2
Triticum aestivo-compactum	1

Context 6490, Sample 11044/T

charcoal	3 max 30 mm
charred ?arthropod	1
charred herbaceous detritus	1
gravel	1
sand	2
snails	1

Context 6490, Sample 11052/BS

bone fgts	1
burnt bone fgts	1
charcoal	2
charred seeds	1
gravel	2
snails	2
stones	2

Context 6490, Sample 11066/BS

?daub	1
bird bone	1
charcoal	1
Corylus avellana (ch)	1
fish bone	1
Helix aspersa	1 fgts only
snails	1
?daub	1
?dog coprolite	1
bone fgts	1
charcoal	1
charred seeds	1
snails	1

snails (contaminant)	1
----------------------	---

Context 6490, Sample 11069/T

?daub	1
Cecilioides acicula	1
charcoal	2 max 25 mm
eggshell fgts	1
gravel	1
insects	1
sand	2
snails	2

Context 6490, Sample 11085/BS

?daub	1
bone fgts	1
charcoal	1
fish bone	1
pebbles	1
small mammal bone	1
snails	1

Context 6490, Sample 11085/T

bone fgts	1
charcoal	2 max 15 mm
gravel	1
Hyoscyamus niger	1
insects	1
sand	3
snails	1
Cecilioides acicula	1
charcoal	2 max 15 mm
sand	4

Context 6498, Sample 6602/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 6630, Sample 6631/BS2

baked clay/daub	1 max 15 mm
bird bone	1
bone fgts	3 max 180 mm
burnt bone fgts	1 max 5 mm
burnt fish bone	1
burnt stone	1 max 50 mm
charcoal	1 max 20 mm
fish bone	1
fish scale	1
limestone	1 max 120 mm
root/rootlet fgts (modern)	1
teeth	1

Context 6680, Sample 6781/BS2

?daub	1 max 20 mm
bone fgts	1 max 60 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 10 mm
glassy slag	1
gravel	1 max 20 mm
grit	1
root/rootlet fgts (modern)	1

Context 6680, Sample 6782/BS2

?daub	1 max 10 mm
bone fgts	1 max 20 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
gravel	1
grit	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1

Context 6680, Sample 6782/T2

bone fgts	1 max 15 mm
charcoal	1 max 10 mm
sand	4

Context 6710, Sample 6723/SPT

Alnus/Corylus (charcoal)	1 max 15 mm
Corylus avellana (charcoal)	1 max 10 mm
Quercus (charcoal)	1 max 15 mm

Context 6710, Sample 6723/T

bone fgts	4
charcoal	1 max 5 mm
charred herbaceous detritus	1
Heterodera (cysts)	2
root/rootlet fgts	2
sand	2

Context 6797, Sample 6828/SPT

Quercus (charcoal)	1 max 10 mm
--------------------	-------------

Context 6798, Sample 6836/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 6885, Sample 9961/SPT

Alnus (charcoal)	1 max 25 mm
Corylus avellana (charcoal)	1 max 25 mm

Context 6885, Sample 9970/SPT

Corylus avellana (charcoal)	1 max 20 x 10 mm
-----------------------------	------------------

Context 6885, Sample 10011/SPT

charcoal	1 max 10 mm
Quercus (charcoal)	1 max 15 mm

Context 6886, Sample 8493/T2

'ash beads'	1
'pinched' stems (ch)	1
ash	1 max 10 mm
bone fgts	1 max 10 mm
charcoal	2 max 15 mm
Corylus avellana (charcoal)	1 max 30 x 10 mm
Rumex acetosella agg. (ch)	1
Rumex sp(p). (ch)	1
sand	3
snails	1

Context 6907, Sample 6908/BS2

bird bone	1
bone fgts	1 max 80 mm
burnt bone fgts	1
charcoal	2 max 15 mm
fish bone	1
gravel	1
limestone	1 max 40 mm
root/rootlet fgts (modern)	1
small mammal bone	1
snails	1

Context 6913, Sample 6914/BS2

'lime' concretions	2 max 15 mm
amphibian bone	1
bird bone	1
bone fgts	1 max 60 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1
small mammal bone	1
snails	1

Context 6916, Sample 6921/BS2

burnt bone fgts	1 max 5 mm
Cecilioides acicula	1
charcoal	1 max 5 mm
gravel	1
limestone	1 max 30 mm
snails	1

Context 6918, Sample 7006/BS2

'lime' concretions	2 max 15 mm
amphibian bone	1
bird bone	1
charcoal	1 max 5 mm
metallic slag	1 max 10 mm

Context 6949, Sample 6953/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 7025, Sample 7030/T2

ash	2
bone fgts	1 max 10 mm
charcoal	1 max 10 mm
sand	3

Context 7054, Sample 7125/BS2

amphibian bone	1
bone fgts	1 max 30 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 10 mm
fish bone	1
limestone	1 max 60 mm
root/rootlet fgts (modern)	1

Context 7077, Sample 7079/BS2

'lime' concretions	1 max 10 mm
bone fgts	1 max 60 mm

burnt stone	1 max 20 mm	burnt bone fgts	1 max 15 mm
charcoal	1 max 5 mm	charcoal	1 max 10 mm
limestone	1 max 100 mm	concreted sediment	1 max 15 mm
snails	1	glassy slag	1 max 20 mm
		limestone	1 max 50 mm

Context 7078, Sample 7080/BS2

'lime' concretions	1 max 5 mm
bird bone	1
Cecilioides acicula	2
charcoal	1 max 10 mm
limestone	1 max 20 mm
snails	1

Context 7090, Sample 7197/BS2

'lime' concretions	1 max 15 mm
amphibian bone	1
bird bone	1
bone fgts	1 max 40 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
snails	2

Context 7091, Sample 7198/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 10 mm
charcoal	1 max 10 mm
snails	2

Context 7094, Sample 7096/BS2

?daub	1 max 15 mm
amphibian bone	1
bone fgts	1 max 20 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
limestone	1 max 40 mm
snails	1
tufa	1 max 30 mm

Context 7109, Sample 7124/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 50 mm
charcoal	1 max 10 mm
concreted sediment	1
fish bone	1
glassy slag	1 max 30 mm
limestone	1 max 20 mm
snails	2

Context 7109, Sample 7182/BS2

baked clay/daub	1 max 10 mm
bone fgts	1 max 40 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
limestone	1 max 40 mm
small mammal bone	1
snails	2

Context 7123, Sample 7142/BS2

baked clay/daub	1 max 15 mm
-----------------	-------------

Context 7123, Sample 7154/BS2

bone fgts	1 max 50 mm
charcoal	1 max 5 mm
concreted sediment	1 max 20 mm
fish bone	1
limestone	2 max 60 mm
root/rootlet fgts (modern)	1

Context 7150, Sample 7199/BS2

baked clay/daub	1 max 40 mm
bone fgts	1 max 80 mm
charcoal	1 max 15 mm
fish bone	1
limestone	1 max 40 mm
metallic slag	1
root/rootlet fgts (modern)	1

Context 7152, Sample 7224/BS2

'lime' concretions	1 max 10 mm
baked clay/daub	2 max 50 mm
bone fgts	1 max 10 mm
burnt bone fgts	1 max 20 mm
charcoal	1 max 5 mm
limestone	1 max 70 mm
root/rootlet fgts (modern)	1
snails	1
unwashed clay sediment	1 max 60 mm

Context 7184, Sample 7194/BS2

baked clay/daub	1
charcoal	1 max 5 mm
glassy slag	1 max 10 mm
limestone	1 max 30 mm
root/rootlet fgts (modern)	1
snails	1

Context 7210, Sample 7214/BS

bone fgts	1
charcoal	1 max 10 mm
coarse sand	1
flint	1
root/rootlet fgts (modern)	1

Context 7285, Sample 7295/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 7316, Sample 7346/T2

charcoal	1 max 10 mm
oyster shell fgts	1 max 70 mm
sand	4
stones	1 max 40 mm

Context 7359, Sample 7357/BS2

'ash beads'	1
'lime' concretions	1 max 5 mm
bird bone	1
bone fgts	1 max 90 mm
charcoal	1 max 15 mm
earthworm egg caps (contaminant)	1
flint	1 max 10 mm
gravel	1 max 5 mm
grit	1
root/rootlet fgts (modern)	1
snails	1

Context 7364, Sample 7441/T

Atriplex sp(p).	1
gravel	1
Heterodera (cysts)	1
insects	1
lime/tufa	3
root/rootlet fgts	1
Sambucus nigra	1
sand	2
snails	2

Context 7385, Sample 7386/T2

ash concretions	1 max 5 mm
bird bone	1 max 40 mm
bone fgts	1
charcoal	1 max 5 mm
Corylus avellana (ch)	1 max 10 mm
fish bone	1 max 15 mm
sand	4
stones	1 max 70 mm

Context 7461, Sample 7493/T2

'lime' concretions	2 max 15 mm
bone fgts	1 max 10 mm
charcoal	1 max 5 mm
sand	3

Context 7479, Sample 7482/BS2

bone fgts	1 max 40 mm
charcoal	1 max 5 mm
fish bone	1
limestone	1 max 50 mm
root/rootlet fgts (modern)	1
snails	1
tufa	1 max 25 mm

Context 7505, Sample 7508/BS2

baked clay/daub	1 max 35 mm
bone fgts	1 max 20 mm
burnt bone fgts	1 max 30 mm
burnt stone	1 max 30 mm
Cecilioides acicula	1
charcoal	1 max 30 mm
eggshell fgts	1 max 10 mm
fish bone	1
gravel	1

Quercus (charcoal)	1 max 30 mm
root/rootlet fgts (modern)	1
snails	2

Context 7523, Sample 7605/T2

'lime' concretions	1
?root moulds	1
sand	4
snails	2

Context 7529, Sample 7530/T2

bone fgts	1 max 20 mm
charcoal	1 max 10 mm
sand	4

Context 7539, Sample 7537/T2

charcoal	1 max 15 mm
fish bone	1 max 5 mm
root/rootlet fgts (modern)	1
sand	4
snails	1

Context 7577, Sample 7595/T2

charcoal	1 max 10 mm
oyster shell fgts	1 max 15 mm
sand	4
snails	1
Cecilioides acicula	2
charcoal	1 max 10 mm
sand	3

Context 7610, Sample 7608/BS2

bone fgts	1 max 15 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
limestone	1 max 70 mm
root/rootlet fgts (modern)	1
snails	1
tufa	1 max 20 mm

Context 7621, Sample 7619/T2

Cerealia indet.	1
cf. Hordeum sp(p).	1
charcoal	1 max 5 mm
Chenopodium album	1
Hordeum sp(p).	1
root/rootlet fgts (modern)	1
sand	4
stones	1 max 40 mm

Context 7656, Sample 8768/BS2

baked clay/daub	3 max 15 mm
Boraginaceae	1 modern
burnt stone	1 max 20 mm
charcoal	1 max 10 mm
Chenopodium album	1
earthworm egg caps (contaminant)	1
Galium aparine (ch)	1
Hordeum sp(p). (inc hulled and spr)	1

snails	1	limestone	1 max 70 mm
		snails	1

Context 7658, Sample 7601/BS2

baked clay/daub	2 max 100 mm
'lime' concretions	1 max 10 mm
baked clay/daub	2 max 20 mm
Bilderdykia convolvulus (ch)	1
bone fgts	1 max 200 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
Gramineae (ch)	1
Hordeum sp(p).	1
sand	3
snails	1
stone	2 max 30 mm

Context 7673, Sample 7674/T2

'lime' concretions	2 max 10 mm
bone fgts	1 max 10 mm
charcoal	1 max 3 mm
sand	3

Context 7676, Sample 7677/T2

bird bone	1 max 50 mm
charcoal	1 max 15 mm
sand	4
snails	1
stones	2 max 60 mm

Context 7734, Sample 7733/SPT

Quercus (charcoal)	1 max 20 mm
--------------------	-------------

Context 7741, Sample 7742/T2

'pinched' stems (ch)	1
bone fgts	1 max 15 mm
charcoal	1 max 10 mm
sand	1 max 4 mm

Context 7902, Sample 11089/T

?brick/tile	1
bone fgts	1
Cecilioides acicula	1
charcoal	2 max 20 mm
gravel	1
insects	1
sand	3
snails	1

Context 7903, Sample 8454/BS2

'lime' concretions	1 max 10 mm
baked clay/daub	1 max 20 mm
bone fgts	1 max 170 mm
burnt bone fgts	1 max 30 mm
burnt stone	1 max 20 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
eggshell fgts	1 max 5 mm
glassy slag	1 max 40 mm
Hordeum sp(p).	1

Context 7903, Sample 8454/T

Atriplex sp(p). (ch)	1
bone fgts	1
charcoal	1 max 15 mm
gravel	2
insects	1
sand	4
snails	1

Context 8090, Sample 8211/BS2

bird bone	1
bone fgts	1 max 60 mm
Cecilioides acicula	1
charcoal	1 max 20 mm
fish bone	1
limestone	1 max 40 mm
slag	1 max 20 mm
snails	1

Context 8091, Sample 8191/SPT

Quercus (charcoal)	1 max 35 mm
--------------------	-------------

Contexts 8149, Sample 8506/SPT

Corylus avellana (charcoal)	1 max 15 mm
-----------------------------	-------------

Context 8155, Sample 8215/BS2

baked clay/daub	2 max 30 mm
bone fgts	1 max 20 mm
burnt bone fgts	1 max 20 mm
charcoal	1 max 10 mm
fish bone	1
gravel	1
pottery	1 max 40 mm
slag	1 max 30 mm
small mammal bone	1
snails	1

Context 8159, Sample 8157/T2

'lime' concretions	2 max 10 mm
bone fgts	1 max 60 mm
cf. Hordeum sp(p).	1 1 spec
charcoal	1 max 10 mm
sand	3
snails	1 1 spec

Context 8161, Sample 8162/T2

ash concretions	1 max 5 mm
bird bone	1 max 100 mm
fish bone	1 max 5 mm
root/rootlet fgts (modern)	1
sand	3
stones	3 max 60 mm

Context 8323, Sample 8499/SPT

Corylus avellana (charcoal)	1 max 10 x 5 mm
-----------------------------	-----------------

Context 8461, Sample 8478/BS2

?slag	1	max 15 mm
baked clay/daub	2	max 40 mm
bone fgts	1	max 80 mm
burnt bone fgts	1	max 20 mm
charcoal	1	max 20 mm
concreted sediment	2	max 30 mm
limestone	1	max 40 mm
oyster shell fgts	1	max 50 mm
root/rootlet fgts (modern)	1	
snails	1	

Context 8541, Sample 8744/T2

ash concretions	1	max 5 mm
charcoal	1	max 10 mm
sand	4	
stones	1	max 20 mm

Context 8652, Sample 8650/BS2

amphibian bone	1	
bone fgts	1	max 80 mm
burnt bone fgts	2	max 10 mm
Cecilioides acicula	1	
charcoal	1	max 5 mm
fish bone	1	
gravel	1	max 30 mm
limestone	1	max 40 mm
snails	1	

Context 8653, Sample 8655/BS2

'ash beads'	1	
'pinched' stems (ch)	1	
?daub	1	max 15 mm
Atriplex sp(p).	1	?modern
Betula sp(p).	1	modern
Bilderdykia convolvulus	1	modern
bird bone	1	
bone fgts	1	max 30 mm
burnt bone fgts	1	max 5 mm
burnt stone	1	max 40 mm
Cecilioides acicula	1	
cf. Salix (charcoal)	1	max 10 mm
charcoal	1	max 10 mm
Chenopodium album	1	?modern
Eleocharis palustris sl (ch)	1	
Hordeum sp(p).	1	
limestone	1	max 60 mm
root/rootlet fgts (modern)	1	
Rumex sp(p).	1	?modern
Rumex sp(p). (ch)	1	
Silene vulgaris	1	?modern
Silene vulgaris/alba (ch)	1	?modern
snails	1	
Triticum sp(p).	1	
Viola sp(p).	1	modern

Context 8668, Sample 8634/BS2

'ash beads'	1	
'char'	1	max 10 mm

amphibian bone	1	
bird bone	1	
bone fgts	1	max 90 mm
burnt bone fgts	2	max 5 mm
Cerealia indet.	1	
Cerealia indet. (ch c/n)	1	
charcoal	2	max 20 mm
eggshell fgts	1	max 5 mm
fish bone	2	
gravel	2	max 25 mm
limestone	1	max 40 mm
oyster shell fgts	1	max 30 mm
Quercus (charcoal)	1	
root/rootlet fgts (modern)	1	
small mammal bone	1	
snails	1	

Context 8670, Sample 8671/BS

bone fgts	1	
charcoal	2	max 5 mm
gravel	1	
snails	1	
stone	2	

Context 8675, Sample 8673/BS2

?daub	1	
burnt bone fgts	1	max 10 mm
Cecilioides acicula	2	
charcoal	1	max 15 mm
limestone	1	max 20 mm
metallic slag	1	max 30 mm
snails	1	

Context 8682, Sample 8684/BS2

bird bone	1	
bone fgts	1	max 100 mm
charcoal	1	max 10 mm
fish bone	1	
gravel	1	max 40 mm
oyster shell fgts	1	max 20 mm
root/rootlet fgts (modern)	1	

Context 8685, Sample 8714/BS2

baked clay/daub	1	max 50 mm
bone fgts	1	max 20 mm
burnt bone fgts	1	max 15 mm
burnt stone	3	max 90 mm
charcoal	1	max 5 mm
eggshell fgts	1	max 10 mm
snails	1	

Context 8711, Sample 8709/BS2

'ash beads'	1	
'lime' concretions	1	max 15 mm
amphibian bone	1	
bird bone	1	
bone fgts	1	max 140 mm
burnt stone	1	max 40 mm
Cecilioides acicula	1	

charcoal	1 max 10 mm
limestone	1 max 60 mm
snails	1

Context 8734, Sample 8735/SPT

Quercus (charcoal)	1 max 30 x 5 mm
--------------------	-----------------

Context 8749, Sample 8750/T2

charcoal	2 max 20 mm
gravel	1 max 30 mm
sand	3
snails	1

Context 8771, Sample 8782/T2

burnt clay	1
Cecilioides acicula	2
charcoal	1 max 5 mm
charred herbaceous detritus	1
Sambucus nigra (sf)	1 a single, modern, specimen
sand	1
snails	2

Context 8774, Sample 8772/BS2

baked clay/daub	3 max 70 mm
bone fgts	1 max 20 mm
burnt stone	1 max 70 mm
charcoal	1 max 10 mm
limestone	2 max 120 mm
snails	1

Context 8787, Sample 8832/SPT

Alnus (charcoal)	1 max 20 mm
Fraxinus excelsior (charcoal)	1 max 20 mm

Context 8802, Sample 10154/BS2

burnt clay	3
------------	---

Context 8835, Sample 8833/T2

baked clay/daub	1 max 15 mm
Cecilioides acicula	1
charcoal	1 max 20 mm
sand	2
snails	1
stones	2 max 80 mm

Context 8837, Sample 8838/BS2

'lime' concretions	1 max 15 mm
baked clay/daub	1 max 20 mm
bone fgts	1 max 25 mm
Cecilioides acicula	1
charcoal	1 max 25 mm
eggshell fgts	1 max 5 mm
fish bone	1
glassy slag	1 max 20 mm
gravel	1 max 15 mm
limestone	1 max 50 mm
oyster shell fgts	1 max 20 mm
Quercus (charcoal)	1 max 25 mm

small mammal bone	1
snails	1

Context 8852, Sample 8853/T2

'lime' concretions	1 max 10 mm
baked clay/daub	1 max 35 mm
bird bone	1 max 40 mm
Boraginaceae (min)	1
Cecilioides acicula	1
charcoal	1 max 5 mm
Chenopodium album	1
sand	2
snails	1
stones	2 max 100 mm
Urtica urens	1 modern

Context 9943, Sample 9944/T2

charcoal	1 max 15 mm
sand	3
snails	1 fgts only
stones	2 max 50 mm

Context 9965, Sample 10023/BS2

bone fgts	1 max 5 mm
charcoal	1 max 5 mm
grit	1
root/rootlet fgts (modern)	1

Context 10025, Sample 10026/T2

ash concretions	2 max 20 mm
bone fgts	1 max 70 mm
charcoal	2 max 20 mm
sand	2

Context 10036, Sample 10932/T

bone fgts	1
Cecilioides acicula	1
charcoal	1 max 15 mm
insects	1
root/rootlet fgts	1
sand	4
snails	1

Context 10055, Sample 10060/BS2

bone fgts	1 max 30 mm
Cerealia indet.	1
cf. Calluna vulgaris (ch rt-tw fgts)	1
fish bone	1
gravel	1
grit	1
limestone	1 max 20 mm
root/rootlet fgts (modern)	1
tufa	1 max 25 mm

Context 10064: Phase 4i, posthole fill, bldg 24**Context 10064, Sample 10070/BS (10 kg)**

'ash beads'	2
-------------	---

'pinched' stems (ch)	2
ash concretions	1 max 15 mm
Carex sp(p). (ch)	1
Cecilioides acicula	1
Cerealia indet.	1
cf. Bromus sp(p).	1
cf. Trifolium sp(p).	1
charcoal	1 max 25 mm
Corylus avellana (charcoal)	1 max 10 mm
Eleocharis palustris sl (ch)	1
Gramineae (ch)	1
Juncus sp(p). (ch caps)	1
Leguminosae	1 max 5 mm
Linum usitatissimum (ch)	1
Plantago maritima (ch caps)	1
Plantago maritima (ch)	1
Quercus (charcoal)	1 max 25 mm
Ranunculus sardous (ch)	1
root/rootlet fgts (modern)	1
snails	2
Triticum sp(p).	1
Vicia faba (ch cot)	1

Context 10067, Sample 10136/T2

?tufa	3 max 30 mm
bird bone	1 max 30 mm
sand	2

Context 10105, Sample 10106/BS2

'lime' concretions	1 max 5 mm
baked clay/daub	1 max 15 mm
bird bone	1
bone fgts	1 max 35 mm
burnt bone fgts	1 max 5 mm
Cecilioides acicula	1
eggshell fgts	1 max 5 mm
fish bone	1
glassy slag	1 max 60 mm
slag	1 max 50 mm
snails	2

Context 10133, Sample 10134/T2

burnt clay	1 max 5 mm
charcoal	1 max 5 mm
gravel	2 max 20 mm
sand	2
unwashed clay sediment	2

Context 10143, Sample 10144/BS2

bone fgts	1 max 20 mm
burnt bone fgts	1 max 10 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
eggshell fgts	1 max 5 mm
limestone	1 max 30 mm
snails	1

Context 10146, Sample 10149/BS2

'lime' concretions	2 max 10 mm
--------------------	-------------

baked clay/daub	1 max 30 mm
bone fgts	1 max 20 mm
Cecilioides acicula	1
charcoal	1 max 5 mm
limestone	1 max 50 mm
snails	2

Context 10170, Sample 10203/T2

burnt clay	2 max 30 mm
charcoal	1 max 3 mm
sand	3

Context 10179, Sample 11692/BS2

'lime' concretions	1 max 10 mm
bird bone	1
bone fgts	1 max 80 mm
charcoal	1 max 5 mm
fish bone	1
limestone	1 max 50 mm
oyster shell fgts	1 max 5 mm
tufa	1 max 10 mm

Context 10182, Sample 10184/BS2

'lime' concretions	1 max 5 mm
amphibian bone	1
bird bone	1
bone fgts	1 max 60 mm
charcoal	1 max 25 mm
glassy slag	1 max 30 mm
gravel	1
limestone	1 max 80 mm
snails	2

Context 10236, Sample 11153/T

?daub	1
charcoal	2 max 20 mm
insects	1
sand	3
snails	1

Context 10238, Sample 10239/BS2

'lime' concretions	1 max 10 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
fish bone	1
flint	1 max 5 mm
limestone	1 max 15 mm
snails	1

Context 10337, Sample 10338/BS2

'lime' concretions	1 max 10 mm
amphibian bone	1
baked clay/daub	1 max 40 mm
bone fgts	1 max 100 mm
burnt bone fgts	1 max 15 mm
Cecilioides acicula	2
charcoal	1 max 5 mm
eggshell fgts	1 max 15 mm

gravel	1
limestone	1 max 25 mm
planorbid snails	1
small mammal bone	1
snails	1

Context 10360, Sample 10361/SPT

cf. <i>Acer</i> sp(p).	1 max 10 mm
<i>Corylus avellana</i> (charcoal)	1 max 15 x 10 mm

Context 10360, Sample 10362/SPT

<i>Corylus avellana</i> (charcoal)	2 max 30 mm
<i>Quercus</i> (charcoal)	1 max 30 mm
<i>Salix/Populus</i> sp(p). (charcoal)	1 max 40 mm

Context 10363, Sample 10376/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 2 mm
burnt bone fgts	1 max 5 mm
charcoal	1 max 5 mm
grit	1
limestone	1 max 30 mm
root/rootlet fgts (modern)	1
snails	1 very decayed
woody root fgts (modern)	1

Context 10398, Sample 10396/BS2

baked clay/daub	1 max 20 mm
bone fgts	1 max 90 mm
burnt bone fgts	1 max 10 mm
charcoal	1 max 5 mm
fish bone	1
glassy slag	1 max 35 mm
limestone	1 max 40 mm
snails	1
woody root fgts (modern)	1

Context 10399, Sample 10915/T

bone fgts	1
charcoal	2 max 5 mm
sand	4

Context 10665, Sample 10666/SPT

<i>Quercus</i> (charcoal)	1 max 25 mm
---------------------------	-------------

Context 10675, Sample 10676/T2

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	2 max 10 mm
baked clay/daub	1 max 5 mm
bone fgts	1 max 30 mm
charcoal	1 max 10 mm
fish bone	1 max 5 mm
sand	4
snails	1

Context 10739, Sample 10740/T2

ash concretions	1 max 10 mm
baked clay/daub	1 max 30 mm

burnt bone fgts	1 max 30 mm
charcoal	1 max 10 mm
sand	3

Context 10798, Sample 10799/SPT

<i>Rubus fruticosus</i> agg.	1 1 spec
------------------------------	----------

Context 10840, Sample 10838/T2

<i>Cecilioides acicula</i>	1
charcoal	1 max 10 mm
fish bone	1 max 5 mm
sand	3
snails	2
stones	1 max 30 mm

Context 10856, Sample 10854/BS2

'lime' concretions	1 max 15 mm
baked clay/daub	1 max 25 mm
bone fgts	1 max 60 mm
<i>Cecilioides acicula</i>	2
charcoal	1 max 15 mm
fish bone	1
limestone	1 max 15 mm
root/rootlet fgts (modern)	1
snails	2

Context 10870: Phase 5a-5b, posthole fill

Context 10870, Sample 10868/BS2 (18 kg)

'lime' concretions	1 max 10 mm
'pinched' stems (ch)	1
ash	1
baked clay/daub	1 max 20 mm
<i>Bilderdykia convolvulus</i>	1 modern
bird bone	1
bone fgts	1 max 140 mm
<i>Bromus</i> sp(p).	1
burnt stone	1 max 15 mm
<i>Cecilioides acicula</i>	2
cf. <i>Avena</i> sp(p).	1 1 spec
charcoal	1 max 15 mm
charred seaweed	1
<i>Chenopodium album</i>	1 ?modern
concreted sediment	1 max 30 mm
earthworm egg caps (contaminant)	1
fish bone	1
gravel	1
<i>Heterodera</i> (cysts)	1
<i>Hordeum</i> sp(p).	1 1 spec
<i>Juncus</i> sp(p). (ch caps)	1
limestone	1 max 50 mm
oyster shell fgts	1 max 35 mm
<i>Polygonum aviculare</i> agg.	1 ?modern
<i>Secale cereale</i>	1 1 spec
<i>Silene vulgaris</i>	1 ?modern
small mammal bone	1
snails	2

Context 10884, Sample 10885/SPT

Corylus avellana (charcoal)	1	max 20 x 10 mm
-----------------------------	---	----------------

Context 10937, Sample 10940/T

charcoal	1	max 5 mm
charred herbaceous detritus	1	
root/rootlet fgts	1	
sand	4	

Context 10961, Sample 10959/BS2

'lime' concretions	1	max 10 mm
baked clay/daub	1	max 10 mm
bone fgts	1	max 50 mm
burnt bone fgts	1	max 10 mm
Cecilioides acicula	1	
charcoal	1	max 25 mm
eggshell fgts	1	max 10 mm
gravel	1	
limestone	1	max 40 mm
metallic slag	1	max 70 mm
snails	1	

Context 10962, Sample 11452/BS2

'lime' concretions	1	max 15 mm
bone fgts	1	max 50 mm
burnt bone fgts	1	max 10 mm
Cecilioides acicula	2	
charcoal	1	max 25 mm
gravel	1	
Quercus (charcoal)	1	max 20 mm
slag	1	max 15 mm
snails	2	

Context 10973, Sample 10974/T2

bone fgts	1	max 5 mm
charcoal	1	max 5 mm
sand	4	

Context 11013, Sample 11015/BS

'ash beads'	1	
'pinched' stems (ch)	1	
Bilderdykia convolvulus	1	modern
charcoal	1	max 5 mm
root/rootlet fgts (modern)	1	
snails	1	

Context 11013, Sample 11015/T2

charcoal	1	max 5 mm
sand	4	

Context 11029, Sample 11075/T2

'ash beads'	1	
'pinched' stems (ch)	1	
ash concretions	3	max 20 mm
Boraginaceae (min)	1	
Cecilioides acicula	2	
charcoal	1	max 10 mm
Chenopodium album (ch)	1	1 spec
Gramineae (ch)	1	

Juncus sp(p). (ch caps)	1	
root moulds (min)	2	
sand	3	
snails	2	
wood fgts (min)	1	

Context 11151, Sample 11152/T2

'lime' concretions	1	max 5 mm
baked clay/daub	1	max 15 mm
charcoal	1	max 10 mm
oyster shell fgts	1	max 5 mm
sand	3	

Context 11193, Sample 11093/BS2

'lime' concretions	1	max 5 mm
bone fgts	1	max 10 mm
Cecilioides acicula	1	
charcoal	1	max 20 mm
gravel	1	
limestone	1	max 40 mm
snails	1	

Context 11301, Sample 11353/T2

charcoal	1	max 10 mm
sand	4	

Context 11357, Sample 11354/BS2

burnt bone fgts	1	max 5 mm
Cecilioides acicula	1	
charcoal	1	max 5 mm
sand	1	

Context 11379, Sample 11386/BS2

?glass fgts	1	
Alnus/Corylus (charcoal)	1	max 15 mm
baked clay/daub	1	max 20 mm
bird bone	1	
bone fgts	1	max 20 mm
charcoal	2	max 20 mm
fish bone	1	
glassy slag	1	max 20 mm
limestone	1	max 70 mm
oyster shell fgts	1	max 20 mm
teeth	1	

Context 11396, Sample 11397/BS2

'lime' concretions	1	max 10 mm
baked clay/daub	1	max 50 mm
bone fgts	1	max 40 mm
burnt bone fgts	1	max 15 mm
charcoal	1	max 15 mm
eggshell fgts	1	max 5 mm
glassy slag	1	max 30 mm
limestone	1	max 60 mm

Context 11447, Sample 11448/T2

charcoal	1	max 3 mm
sand	3	

Context 11483, Sample 11538/BS2

'lime' concretions	1 max 10 mm
bone fgts	1 max 40 mm
charcoal	1 max 10 mm
gravel	1
limestone	1 max 50 mm
root/rootlet fgts (modern)	1
snails	1

Context 11557, Sample 11558/BS2

'lime' concretions	1 max 5 mm
bone fgts	1 max 10 mm
charcoal	1 max 5 mm
grit	1
snails	1

Context 11581, Sample 11592/T2

charcoal	1 max 15 mm
sand	4

Context 11603, Sample 11604/BS2

amphibian bone	1
baked clay/daub	1 max 5 mm
bone fgts	1 max 30 mm
burnt bone fgts	1 max 5 mm
Cecilioides acicula	1
charcoal	1 max 5 mm
flint	1 max 15 mm
grit	1
limestone	1 max 15 mm
snails	1

Context 11631, Sample 11645/SPT

Quercus (charcoal)	1 max 10 mm
--------------------	-------------

Context 11631, Sample 11647/BS2

'ash beads'	1
'lime' concretions	1 max 5 mm
bird bone	1
bone fgts	1 max 40 mm
Cecilioides acicula	1
charcoal	2
glassy slag	1 max 20 mm
limestone	1 max 100 mm
oyster shell fgts	1 max 15 mm
Polygonum aviculare agg.	1 modern
snails	1

Context 11658, Sample 11659/BS2

'lime' concretions	1 max 5 mm
baked clay/daub	1 max 5 mm
bone fgts	1 max 20 mm
charcoal	1 max 10 mm
grit	1
limestone	1 max 25 mm
snails	1 1 fgt, v dec

Context 11663, Sample 11769/T

?earthworm egg caps	1
---------------------	---

bone fgts	1
Cecilioides acicula	1
charcoal	2 max 10 mm
sand	4

Context 11682, Sample 11684/BS2

'lime' concretions	1 max 10 mm
ash concretions	1 max 10 mm
bone fgts	1 max 50 mm
burnt bone fgts	1 max 5 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
concreted sediment	1 max 40 mm
eggshell fgts	1 max 5 mm
gravel	1
snails	1 fgts only

Context 11694, Sample 11695/BS2

'lime' concretions	1 max 10 mm
baked clay/daub	1 max 10 mm
bone fgts	1 max 30 mm
Cecilioides acicula	1
charcoal	1 max 10 mm
fish bone	1
limestone	1 max 20 mm
snails	1

Context 11699: Phase 3bii, occupation deposit (yard)

Context 11699, Sample 11820/T2 (1.5 kg)

'ash beads'	1
?peat fgts	1 max 5 mm
amphibian bone	1
ash	1
bone fgts	1 max 30 mm
Carex sp(p). (ch)	1
Cerealia indet.	1
cf. Avena sp(p).	1
cf. Triticum sp(p).	1
charcoal	2 max 15 mm
charred herbaceous detritus	1
fish bone	1
Hordeum sp(p).	1
sand	4
Scirpus lacustris sl (ch)	1
silicified herbaceous detritus	1
snails	1
wood fgts (min)	1

Context 11699, Sample 11857/BS (5 kg)

'ash beads'	1
'pinched' stems (ch)	1
ash concretions	1
bird bone	1
bone fgts	1
Cecilioides acicula	1
cf. Bromus sp(p).	1
cf. Hordeum sp(p).	1

charcoal	1 max 15 mm
Corylus avellana (ch)	1
Juncus sp(p). (ch caps)	1
Sambucus nigra	1 ?modern
snails	1
Triticum aestivo-compactum	1

Context 11699, Sample 11857/T

'ash beads'	2
?daub	1
charcoal	2 max 15 mm
charred herbaceous detritus	1
earthworm egg caps	1
insects	1
sand	4
snails	1

Context 11759, Sample 11760/BS?

charcoal	1 max 10 mm
----------	-------------

Context 11761, Sample 11661/T2

charcoal	1 max 5 mm
sand	4

Context 11785, Sample 11786/SPT

Quercus (charcoal)	1 max 25 mm
--------------------	-------------

Context 11847, Sample 11848/SPT

Salix/Populus sp(p). (charcoal)	1 max 15 x 10 mm
---------------------------------	------------------

Context 11852, Sample 11853/SPT

cf. Pomoideae (charcoal)	1 max 20 mm
Corylus avellana (charcoal)	1 max 10 mm
Salix/Populus sp(p). (charcoal)	1 max 15 mm

Context 12057, Sample 12224/SPT

Salix/Populus sp(p). (charcoal)	1 max 20 mm
---------------------------------	-------------

Context 12057, Sample 12225/SPT

cf. Corylus avellana (charcoal)	1 max 10 mm
Fraxinus excelsior (charcoal)	1 max 10 mm

Salix/Populus sp(p). (charcoal)	1 max 10 mm
---------------------------------	-------------

Context 12057, Sample 12227/SPT

Alnus (charcoal)	1 max 10 mm
bark fgts (ch)	1 max 10 mm
Corylus avellana (charcoal)	1 max 10 mm
Fraxinus excelsior (charcoal)	1 max 10 mm
Quercus (charcoal)	1 max 10 mm

Context 12127, Sample 12128/BS2

'lime' concretions	1 max 5 mm
bird bone	1
bone fgts	1 max 40 mm
burnt stone	1 max 20 mm
Cecilioides acicula	1
charcoal	1 max 5 mm
glassy slag	1 max 20 mm
gravel	1
limestone	1 max 40 mm
snails	1

Context 12212, Sample 12213/SPT

Quercus (charcoal)	1 max 40 mm
--------------------	-------------

Context 12212, Sample 12214/SPT

Quercus (charcoal)	1 max 45 mm
--------------------	-------------

Context 12218, Sample 12219/SPT

Quercus (charcoal)	1 max 15 mm
--------------------	-------------

Context 12235, Sample 12257/BS2

bird bone	1
bone fgts	1 max 110 mm
burnt bone fgts	1 max 15 mm
charcoal	1 max 10 mm
fish bone	1
grit	1
limestone	1 max 25 mm
pottery	1 max 15 mm
woody root fgts (modern)	1

Table 4. Contexts at Flixborough from which more than traces of charred plant remains were recovered in one or more samples.

Phase	Context	Context type and associated buildings
2	4950	occupation deposit (floor) (associated with building 20)
	4624	soakaway fill
2-3a	5369	dump
3a	3911	postpipe fill (associated with building 1a)
3bi-3bv	4616	posthole fill (associated with building 5)
3bii	6465	occupation deposit (yard)
	11699	occupation deposit (yard)
3biv	5983	dump
3biv-3bv	6446	pit fill
3bv	6235	dump
3bv-4ii	3280	dump
4i	10064	posthole fill (associated with building 24)
4i-4ii	4675	trench fill (associated with building 3)
4ii	3758	dump
5a-5b	492	posthole fill (associated with building 36/37)
	4920	posthole fill (associated with building 27)
	10870	posthole fill
5a-5b	300	posthole fill (associated with building 38)
6i	5930	trench fill (associated with building 7)
6ii-6iii	1708	pit fill
7	1410	pit fill

Table 5. Numbers of records of taxa recorded from samples at Flixborough where the abundance score was greater than 1 (a trace); in all cases, the score was 2.

Taxon	Type of sample	No. contexts from which taxon was recorded at an abundance >1
<i>Alnus/Corylus</i> (charcoal)	BS	1
<i>Carex</i> sp(p). (ch)	BS	2
'Cerealia' indet.	BS	2
<i>Eleocharis palustris</i> s.l. (ch)	BS	1
<i>Quercus</i> (charcoal)	BS	1
<i>Triticum</i> sp(p).	BS	1
<i>Juncus</i> sp(p). (ch caps)	BS	1
<i>Juncus</i> sp(p). (ch)	BS	1
<i>Linum usitatissimum</i> (ch)	BS	1
<i>Plantago maritima</i> (ch caps)	BS	1
<i>Alnus</i> (charcoal)	SPT	1
<i>Corylus avellana</i> (charcoal)	SPT	1
<i>Quercus</i> (charcoal)	SPT	3
Gramineae (ch)	T	1
<i>Carex</i> sp(p). (ch)	T	1

Table 6. Assemblages from Flixborough with more than two records for cereal remains.

Records	Phase	Context	Sample	Context type
barley, ?oats, ?wheat	3bii	11699	11820/T2	occupation deposit (yard)
barley, bread/club wheat, ?oats	3bv	6235	11570/BS	dump
barley, rye, ?oats	5a-5b	10870	10868/BS2	posthole fill

Table 7. Assemblages from Flixborough with records for nutshell and fruitstones.

Records	Phase	Context	Sample	Context type and associated buildings
<i>Corylus avellana</i> (ch)	2	4223	4224/SPT	posthole fill (associated with building 20)
	2-3a	5369	6765/BS2	dump
	3bii	11699	11857/BS	occupation deposit (yard)
	3bii-3biii	7385	7386/T2	posthole fill
	3bv	5617	13819/SPT	dump
	3bv	6235	11570/BS	dump
	4ii	3758	5183/BS	dump
			6287/BS	
			13916/SPT	
	5a	5640	13915/SPT	demolition deposit
	5b	5553	13914/SPT	dump
	5b-6i	4195	5433/T2	occupation deposit
			6490	11066/BS
6i	5871	13917/SPT	trench fill (associated with building 7)	
<i>Prunus domestica</i> ssp. <i>insititia</i> (ch)	5a	5640	13915/SPT	demolition deposit
	5b	3217	3298/SPT	dump
	6i	5871	13917	trench fill (associated with building 7)
<i>Rubus</i> sp(p).	4i-4ii	4675	4720/BS	trench fill (associated with building 3)
<i>Rubus fruticosus</i> agg.	5a-5b	10798	10799/SPT	posthole fill

Records	Phase	Context	Sample	Context type and associated buildings
<i>Rubus fruticosus</i> agg. (ch)	5a-5b	492	496/BS2	posthole fill (associated with buildings 36/37)
<i>Sambucus nigra</i>	2-3a	4967	4965/T2	posthole fill (associated with building 6)
	2i-4ii	269	1254/BS	ditch fill
	3bii	11699	11857/BS	occupation deposit (yard)
	5a	7364	7441/T	oven
<i>Sambucus nigra</i> (sf)	5a	8771	8782/T2	demolition deposit

Table 8. Assemblages from Flixborough with records for flax and hemp.

Records	Phase	Context	Sample	Context type and associated buildings
<i>Linum usitatissimum</i> (ch)	4i	10064	10070/BS	posthole fill (associated with building 24)
	5-5b	492	496/BS2	posthole fill (associated with building 36/37)
	6i	5930	5962/BS	trench fill (associated with building 7)
<i>Cannabis sativa</i> (ch)	2	4950	5108/BS2	occupation deposit (floor associated with building 20)

Table 9. Contexts and samples from Flixborough with moderate to high concentrations of ash and related components, with a combined score, CP, for the abundance of selected charred plant remains—charred herbaceous detritus, ‘pinched’ stems, sea plantain remains, rush remains, ?Puccinellia, Suaeda, and charred seaweed—where any of these were recorded). For the 15 subsamples from 14 contexts where there were charred remains of these kinds but no ‘ash’ component, the combined abundance score never exceeded 3. Contexts marked ‘’ were examined by Canti (1992) as part of a study of the nature of the archaeological sediments at Flixborough.*

Phase	Context	Sample	Context type and associated buildings	Abundance of			CP
				‘ash beads’	ash or ?ash	ash concerns	
2	4624	4662/BS	soakaway fill	2	-	2	10
		4664/BS		2	-	2	12
		4664/T2		-	-	4	0
2-3a	5369	5691/T2	dump	-	-	4	1
3a	10025	10026/T2	pit fill	-	-	2	0
3bi-3bii	10675	10676/T2	post hole fill (associated with building 13)	-	-	2	1
3bii	11699	11857/T	occupation deposit (yard)	2	-	-	1
3biv	5983*	6780/BS	dump	-	-	2	5
		10220/BS		-	2	-	7
		10221/BS		-	3	-	5
		10221/T		2	-	-	2
		10222/BS		2	3	-	2
		10252/BS		-	3	-	6
		10252/T		2	-	-	2
		10254/T		3	-	-	2
3biv-3bv	6446	6448/BS2	pit fill	-	-	3	9
3bv	3541	3560/BS2	occupation deposit	-	-	2	0
	6136	6156/BS2	dump	-	-	3	0
3bv-4ii	3280	6043/BS	dump	-	-	2	4
4i	10064	10070/BS	post hole fill (associated with building 24)	2	-	-	5

Phase	Context	Sample	Context type and associated buildings	Abundance of			CP
				'ash beads'	ash or ?ash	ash concrns	
4i-4ii	11029	11075/T2	post hole fill (associated with building 15)	-	-	3	2
4ii	3758*	5396/BS	dump	2	3	-	2
6i	7025	7030/T2	post hole (associated with building 7)	-	2	-	0
6ii-6iii	1708	1764/BS	pit fill	2	-	-	4
		1764/T		2	-	2	4

Table 10. Contexts at Flixborough in which charred remains of saltmarsh plants (*Plantago*, *Suaeda*, and *Puccinellia*) and the saltmarsh snail *Hydrobia ulvae* were recorded.

Phase	Context	Context type and associated buildings	Combined abundance score for saltmarsh plants	No. <i>Hydrobia ulvae</i> recorded
2	4624	soakaway fill	5	19
2-3a	5369	dump	6	197
3a	3911	post pipe fill (associated with building 1a)	1	0
3a-5b	2656	post hole fill	1	no samples examined
3biv	5983	dump	7	2+?1
3biv-3bv	6446	pit fill	3	no samples examined
3bv-4ii	3280	dump	1	0
4i	10064	post hole fill (associated with building 24)	2	6
4i-4ii	4675	trench fill	1	no samples examined

Table 11. Results of analyses to test the nature of the sediments at Flixborough, with regard to degree of calcareousness, content of charcoal and other inclusions, and content of fine sediment.

Key: Turb.—turbidity; Ccalc.—degree of calcareousness. Charcoal, fine sediment scale, turbidity and calcareousness all use a five-point scale of abundant from) and '+' (traces) to 3 (abundant or strong).

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
300	315	black/golden (pepper and salt), occasionally with paler patches	moist sand	charcoal to 10 mm	2	2	<1%	1	2	0
444	441	mid slightly purplish grey-brown	slightly silty/clayey (?) almost dry sand, slightly concreted, locally paler	charcoal to 5 mm	0	0	<10%	2	1	0
500	508	light/mid golden grey-brown	moist sand		0	0	<1%	1	2	0
1136	3233	mid/dark grey-brown	moist sand	white flecks	+	+	<1%	1	1	2
1728	1793	dark grey-brown	moist slightly ?silty/ashy sand		+	+	<1%	1	2	0
1739	3472	mid grey-brown	sand	abundant whity ashy flecks and concretions to 10 mm	0	0	~20%	2	2	3

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
1982	3574	dull brick red	slightly concreted dry sand		0	0	10-15%	2	1	0
2004	2037	dark, slightly purplish brown	sand	rare stones to 60 mm, bone to 40	+	0	<1%	1	2	3
2033	2055	mid/dark golden-grey-brown	moist sand		+	0	<1%	1	1	1
2047	2056	mid slightly purplish grey-brown	moist sand		+	0	<1%	1	1	0
2085	2086	dark purplish grey-brown	almost dry sand (locally lighter and darker)	rare stones to 10 mm and hard and calcareous ?clay clasts to 10 mm	+	0	<1%	1	0	0
2120	2149	dark grey-brown	moist sand		+	0	~10%	2	2	0
2141	2164	mid-dark greyish-golden brown	sand		0	0	0	0	1	1
2146	2166	mid/dark grey-brown	moist sand	stones to 30 mm	+	0	~10%	2	1	1
2148	2167	mid/dark golden brown	moist sand	stones	+	0	~25%	3	2	1
2356	2360	dark, slightly purplish grey-brown	moist sand		0	0	~10%	2	2	0

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
2376	2377	mid/dark grey-brown	moist sand	angular burnt ?shelly 1st to 70 mm	0	0	~20%	2	2	1
2394	2407	dark grey-brown	wet sand		0	0	~10%	2	2	0
2480	2489	mid/dark golden-grey-brown	moist sand		+	0	<1%	1	1	0
3239	5455	pale reddish greyish brown	ashy sand/sandy ash	lumps of ?baked clay to 30	+	0	~20%	2	2	3
3256	5466	light grey-brown	dry running sand with ?ash (perhaps mostly ash)	modern roots?	2	1	~30%	3	2	3
3303	3360	dark grey-brown	moist to wet sand	paler flecks	+	+	<5%	1	2	2
3464	3465	purplish mid grey-brown	dry sand	ash to 25, charcoal to 5	2	2	<10%	2	1	1
3479	3507	light/mid golden brown	running dry sand	stones to 60 mm	+	0	+	1	0	0
3483	3494	very light greyish-brown	sand	abundant whitish ash, included concrete d material to 20 mm	0	0	20+%	3	1	3
3486	3498	mid slightly reddish-brown	moist sand		0	0	<1%	1	1	0

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
3531	4541	mid golden-grey brown	moist sand	clasts of calcareous pale yellow-grey- brown clay to 15 mm, bone to 15, charcoal to 10	+	+	<1%	1	1	0
3582	3602	mid/dark grey- golden-brown	moist sand	white flecks, bone 80 (ab. 2), stone 40	+	0	<1%	1	2	1
3605	3698	very dark grey to black	moist sand	bone to 60 mm, charcoal to 15 mm	3	+	<1%	1	2	3
3672	3862	mid golden gingery brown (locally lighter and darker)	moist sand	stones to 25, bone to 100	0	0	<10%	2	1	0
3758	11469	dark grey (speckled white)	dry sandy ash	clasts of whitish mortar-like ?ash to 20 mm	2	1	~30%	3	2	3
3879	3880	mid/dark golden grey-brown	moist sand		+	+	<1%	1	1	0
3888	3890	mid-dark grey- brown	sand		0	+	+	1	2	0
3981	3982	mid gingery golden brown	sand	stones to 30 mm and bone to 150 mm with some charcoal to 5 mm	+	+	<10%, dark coloured	2	2	1

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
4009	4034	dark grey-brown	wet sand	stones to 40 mm	0	0	~30%	3	3	0
4177	4178	mid greyish-golden-brown	sand		0	0	<10%	2	1	0
4195	5433	light/mid grey-brown	almost dry (locally indurated/cemented) silty/ashy sand	white flecks	2	+	<5%	1	2	3
4216	4217	mid golden grey-brown	moist sand		0	0	~30%	3	2	3
4242	4243	mid golden grey-brown	wet sand	white lime patches/lumps to 30mm	0	0	~15%	2	2	3
4287	4289	mid golden grey-brown	moist sand	plae flecks	+	0	<1%	1	1	3
4506	4513	light/mid golden grey-brown	dry, running slightly indurated/cemented sand	lumps of slightly clayey sand	+	0	<1%	1	1	0
4624	4664	dk greyish brown	sand	lighter buff ?ash to 20 mm (slightly concreted)	1	0	+	1	2	3
4641	4642	light yellow-orange-brown	almost dry running sand	bone to 30 mm	+	0	+	1	1	0

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
4645	4649	mid reddish-grey-brown	sand	abundant white flecks, bone to 100 mm, lumps of white calcareous material to 40 mm	+	0	<1%	1	2	3
4654	4667	mid golden grey brown (locally slightly lighter and darker)	moist sand	white flecks	+	+	<1%	1	2	1
4741	4782	mid/dark grey-brown	wet sand	?white flecks	0	0	~10%	2	2	1
4849	4856	mid/dark grey-brown	moist sand	somewhat lighter and darker in colour in patches	+	+	~20%	2	2	1
4851	4852	light/mid golden grey-brown	dry running sand (locally slightly concreted)	yellowish flecks	+	+	~10%	2	0	1
4879	4880	mid reddish golden-brown	moist sand (very clean)		0	0	<1%	1	1	0
4899	4922	light/mid grey brown	dry sand (with lighter and darker patches)	charcoal to 5 mm	2	+	<1%	1	1	2

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
4957	4958	mid/dark golden grey-brown (locally lighter and darker in patches)	moist sand		+	0	<10%	2	2	0
4967	4965	light/mid golden brown	almost dry running sand	very deg bone to 40 mm, grey calcareous ?ash to 5 mm and rare clasts of grey to brown clay to 20 mm	+	0	0	0	1	0
4975	4976	light golden brown, locally greyer	dry, locally sl. concreted sand	white calc flecks, charc to 2 mm and modern roots	+	0	<1%	1	0	0
5045	5046	mid/dark grey-brown	wet sand		0	0	<10%	2	2	0
5059	5077	mid/dark slightly reddish grey-brown	moist sand, slightly indurated/cemented in places		+	0	<1%	1	1	0
5102	5103	light/mid golden brown	sand		0	0	<10%	2	1	1
5162	5161	mid golden orange-grey-brown	moist (slightly ashy?) sand		0	0	<1%	1	2	0
5369	5691	dark grey-brown (locally paler)	silty/ashy moist sand	(some sulphides)	2	+	~10%	2	1	1

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
5553	5613	dark purplish grey	almost dry silty/ashy sand	white flecks (sulphides present)	2	+	~5%	1	2	3
5617	6433	dark grey	moist sand	abundant bone to 70 mm and a stone to 80 mm	+	+	<5%	1	2	3
5992	5993	dark grey-brown	wet thixotropic sand		0	0	25%	3	3	0
6046	7216	dark grey	moist ashy sand		0	0	~30%	3	2	3
6235	6555	very dark grey-brown	moist sand	abundant bone to 100	+	0	<1%	1	2	2
6372	10164	mid golden grey-brown (internally dark grey-brown within lumps)	slightly silty.	slightly silty/ashy moist sand	0	0	<5%	1	2	0
6680	6782	dark slightly olive grey	moist somewhat silty/ashy sand	?modern roots	0	0	~25%	3	1	0
6886	8493	dark grey	moist sand	whitish flecks (sulphides released with HCl)	+	+	~20%	2	3	3
7025	7030	dark grey-brown	moist silty/ashy sand	white flecks and stone to 50 mm	+	0	~30%	3	2	3
7316	7346	dark grey-brown	moist sand	oyster shell to 70, rare pellets of clay to 10 mm	0	+	<1%	1	1	3

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
7385	7386	mid/dark grey-brown	sand	white flecks	0	0	<1%	1	1	3
7461	7493	light/mid grey-brown	moist, ?silty/ashy sand	abundant whitish patches	0	0	~50%	3	2	3
7523	7605	mid golden grey-brown	moist sand	frequent white flecks	0	0	<5%	1	2	3
7529	7530	mid/dark (locally lighter)	moist sand	rare whitish flecks	+	0	<5%	1	2	3
7539	7537	mid/dark grey-brown	sand	rare tiny white flecks	1	1	<10%	2	3	3
7577	7595	mid/dark grey-brown	moist sand	?ash to 10	+	0	~25%	3	2	3
7581	7597	dark grey-brown (locally lighter in patches)	moist slightly sticky (ashy/silty?) sand		0	0	<5%	1	1	3
7621	7619	patchily light orangeish brown to mid/dark grey brown	wet thixotropic sand	stones to 50 mm	0	0	~20%	2	2	0
7665	7664	dark grey-brown	moist sand	white flecks	+	0	<1%	1	2	3
7673	7674	mid golden grey-brown	moist sand	white flecks	0	0	<5%	1	2	3

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
7676	7677	dark grey-brown	moist sand, ?slightly silty	angular and sub-rounded stones to 70 mm	0	0	~10%	2	2	3
7741	7742	mid/dark grey-brown (locally paler)	moist ?slightly silty/ashy sand	white ?ash flecks	0	+	<5%	1	2	3
8159	8157	dark grey-brown	slightly silty sand	pale ?ashy flecks and ?gravel to 20 mm	0	0	~50%, very slow to settle	3	3	3
8161	8162	mid-dark grey-brown	wet sand with paler and darker patches	bone to 100 mm and stones to 50 mm	0	0	<10%	2	3	3
8541	8744	dark purplish brown	moist sand		0	+	~20%	2	2	3
8749	8750	dark grey-brown (locally paler and darker)	ashy/silty sand	white flecks	0	0	~20%	2	1	3
8771	8782	buff to light/mid grey-brown to light reddish-brown	ashy silt, perhaps also somewhat sandy and clayey		0	0	~50%	3	2	3
8835	8833	mid/dark yellowish-grey-brown (very variable)	moist ashy/silty sand	pale flecks and pale red ash/burnt soil	+	+	<10%	2	2	3
8852	8853	dark grey	moist silty/ashy sand	white flecks	2	+	~20%	2	3	3

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
9943	9944	dark grey-brown	just moist ?slightly ashy/silty sand	stones to 80 mm common	+	0	<1%	1	1	3
10025	10026	dark grey	moist silty/ashy sand	pale flecks (some sulphide present)	+	+	~30%	3	2	3
10067	10136	mid/dark grey-brown	moist silty/ashy sand	white lime material	+	0	<5%	1	2	3
10133	10134	dark grey-brown (with patches of ochre, buff, red, pale grey)	sandy silty clay		+	0	>90%	3	3	3
10170	10203	varicoloured (patchily reddish to greyish brown)	moist sandy ash or ashy sand	lumps of bright red-orange burnt soil/ash and whitish patches	0	0	~50% (evidently flocc easily)	3	1	3
10675	10676	mid/dark grey-brown	moist slightly ashy sand	white calc flecks (matrix calc = 1)	+	+	<10%	2	2	1
10739	10740	mid/dark grey-brown (locally lighter and darker)	sandy clay silt		+	0	~25%	3	2	3
10840	10838	dark grey-brown	slightly silty/ashy sand with paler patches		0	0	+	1	1	3
10973	10974	mid/dark grey-brown	moist sand (with paler patches)		0	0	<10%	2	2	1

Context	Sample	Colour	Texture	Inclusions	Charcoal		Fine sediment		Turb.	Calc.
					floating	sinking	volume	scale		
11013	11015	mid (slightly greyish) golden-brown	moist sand		+	+	<1%	1	1	0
11029	11075	mid/dark grey-brown (with paler patches)	moist silty/ashy sand		+	0	~10%	2	2	3
11151	11152	dark grey-brown	moist, slightly ashy or silt sand	white flecks	+	+	<10%	2	2	3
11301	11353	mid golden-grey-brown	moist sand (slightly dark locally)		+	0	<10%	2	2	0
11438	11439	light golden brown	sand	clasts of slightly darker greyish sand	0	0	<10%	2	1	0
11447	11448	light/mid golden brown	moist sand		0	0	<1%	1	1	0
11581	11592	mid/dark golden gingery brown	moist sand		0	0	<10%	2	2	0
11699	11820	mid purplish grey-brown	dry ashy/silty sand	bone to 30 mm, ?burnt bone to 10, white flecks	2	2	~20%	2	2	2
11761	11661	light grey-brown	almost cemented almost dry sand	charcoal, ash, very variable in proportions of components	2	+	~10%	2	1	3

Table 12. Numbers of contexts (total 105) from Table 11 by parameter and score.

Score		0	+	1	2	3
charcoal	floating	45	46	2	11	1
	sinking	72	27	3	3	0
fine sediment		2	-	46	39	18
turbidity		4	-	36	57	8
calcareousness		37	-	16	5	47

Table 13. Concentrations of charcoal, fine sediment and calcareousness and coincidence of charred plant remains perhaps from saltmarsh, amongst the contexts included in Tables 11-12.

Key: Ph/FT—phase and feature type; Context types: BE—beam slot fill; DE—demolition deposit (part of oven); DF—ditch fill; DU—dump; GF—grave fill; HE—hearth; OC—occupation deposit; OY—occupation deposit (yard); OB—oven base; OW—oven wall; PH—post hole fill; PF—pit fill; SF—slot fill; SO—soakaway fill; TF—trench fill; TU—turf line. Parameters: C—floating and/or sinking charcoal scores 2 or 3; F—fine sediment scale >1; T—turbidity >1; L—calcareousness score >1; P—total number of plant 'taxa' recorded from contexts for this phase and feature type from the list: 'pinched' stems (ch), cf. *Puccinellia maritima* (culm frags), cf. *Puccinellia* sp(p). (ch), charred herbaceous detritus, charred seaweed, *Plantago maritima* (ch caps), *Plantago maritima* (ch), *Suaeda maritima* (ch).

Ph/ FT	BE	DE	DF	DU	GF	HE	OC	OY	OB	OW	PH	PF	SF	SO	TF	TU
0																1 F, T
1a											1 F	2 1F, 1T				
1a-1b											1 T	1 T				
1b											4 1F, 2T, 1L					
2	1										4 4F, 3T, 2L			1 T, L P6	1 P1	
2-3a				1 C, F P8			1 C, F, L				6 1C, 2F, 2T, 2L	1				

Ph/ FT	BE	DE	DF	DU	GF	HE	OC	OY	OB	OW	PH	PF	SF	SO	TF	TU
3a					3 1F, 2T						3 1C, 1F, 2T, 2L	1 F, T, L				
3a-3bi							1 C, F, T, L									
3bi-3bii											1 F, T P1					
3bi-3bv						1 F					10 5F, 7T, 6L					
3bi-4ii												1 F, T, L				
3bi-5b											1 F, T					
3bii								1 C, F, T, L P2								
3bii-3bii											3 2F, 2T, 3L					
3bv				3 3T, 3L P2												

Ph/ FT	BE	DE	DF	DU	GF	HE	OC	OY	OB	OW	PH	PF	SF	SO	TF	TU
4-5a												1 F				
4i											2 2F, 2T, IL P2					
4i-4ii											4 4F, 4T, 2L P1	1 C, F			1	
4i-5a												1 T, L				
4i?/5b						1 F, T, L										
4ii				2 2C, 2F, 2T, 2L P1												
5a		1 F, T, L P1		1 F, T, L P2					1 F, L	1 F, T, L	7 3F, 2T, 2L P2	1 T, L	1			
5a-5b											3 1T, 1L	3 1C, 1F, 2T P1				

Ph/ FT	BE	DE	DF	DU	GF	HE	OC	OY	OB	OW	PH	PF	SF	SO	TF	TU
5b				2 1C, 1T, 1L P1			1 F, T, L				3 1F, 1T, 1L P2	3 2F, 2T, 3L P1				
5b-6i							1 C, T, L									
6i											2 1F, 1T, 2L					
6i-6ii							1 F				2 1F, 1T, 2L	1 F, T				
6ii							1 F, T, L									
7			1 T													

N.B. The file containing scanning electron micrographs of plant remains is >93MB in size, and has not been attached to this file