

Assessment of the Romano-British pottery from Elloughton (OSA02 EX08)

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The excavations at Elloughton carried out as part of the Transco Hull West pipeline construction are divided for administrative purposes into two sites which are assessed separately. This document refers only to site OSA02 EX08.

The pottery from the site is mainly of Romano-British date with a few sherds of definite or possible prehistoric date. Most of the material is stratified and includes assemblages of mid 2nd/3rd, 3rd to 4th and later 4th-century date. Much of the pottery consists of large fragments, including many joining sherds and others belonging to the same 'sherd family'.

Factual Data (MAP2.A4.1)

There are 438 sherds of pottery from the site coming from at most 270 vessels. Because of the number of joining/same vessel sherds present we have counted every definite instance of such vessels singly. It is, of course, possible that there are cross-context joins which have not been spotted and instances where sherds were from one vessel but where individual vessels could not be isolated. Therefore, this figure of 270 vessels may itself be an over-estimate.

The record created for the assessment is a catalogue of pottery by context, ware, form and quantity (sherd count, weight and no of vessels). Details of condition (abrasion) and use (mainly sooting) were also noted together with a note of decoration (Appendix 1).

The pottery comes from 44 excavated contexts. Initially, the assemblage from each context was examined as a group and a date assigned to the assemblage. These were then examined alongside stratigraphic information and on that basis these 44 groups were assigned to 33 groups, mostly consisting of the fills of a single feature. This was possible because in the few cases where multiple fills were present in one of these features the pottery recovered from them had the same characteristics.

Table 1 shows the groups to which each context belongs.

Table 1

Context	Group	Provisional dating
		LIA-
1020	1021	EROM
1026	1027	MLIA
1032	1021	3C?
1065	1066	IA
1071	1072	EROM
1073	1074	PREH?
1075	1170	M3C+
1076	1078	L3-M4C
1077	1078	L3-4C
1079	1080	3-4C
1107	1108	M3-4C
1109	1110	4C
1111	1144	M3-E4C
1113	1144	M3-E4C
1119	1118	L2-3C
1123	1118	L2-3C
1125	1126	M2-3C+
1133	1134	M3-4C
1136	1135	3-4C
1143	1144	L3-4C
1148	1149	4C
1154	1118	2-3C

1156	1157	M3C+
1164	1165	3C+
1167	1169	M3C+
1175	1178	M3C+
1177	1178	2-3C
1188	1187	RO?
1197	1198	M3C+
1211	1212	3-4C
1220	1221	3-4C
1224	1228	M2-3C+
1225	1228	M2C+
1238	1239	M3C+
1249	1250	4C?
1251	1252	M2-3C+
1253	1254	L3-4C
1257	1257	M3C+
1258	1259	4C
1263	1262	M2-3C+
1271	1241	4C
1274	1241	4C

The revised dating, including stratigraphic information, allowed the groups to be assigned to one of four phases:

Phase 1 consisted of features which contained either prehistoric or early Romano-British 'native' wares, ie up to the early 2nd century.

There are five such features. 1021 (arguably), 1027, 1072 and 1074 (Table 2).

Table 2

Cname	Data	1021	1027	1066	1072	1074	Grand Total
DWSH?	Nosh	1					1
	NoV	1					1
	Weight	3					3
FLIN	Nosh					1	1
	NoV					1	1
	Weight					2	2
GRSH	Nosh	1					1
	NoV	1					1
	Weight	27					27
LOOL	Nosh	16	2	1	3		22
	NoV	5	2	1	3		11
	Weight	96	67	2	22		187
LOOL?	Nosh				1		1
	NoV				1		1
	Weight				11		11
OX	Nosh	1					1
	NoV	1					1
	Weight	3					3
Totals	Nosh	19	2	1	4	1	27
	NoV	8	2	1	4	1	16
	Weight	129	67	2	33	2	233

Phase 2 consisted of features which contained pottery assigned to the mid 2nd (or later) or late 2nd to 3rd centuries.

The main deposit of this phase is 1118 (incorporating 1120, 1124 and 1155). 1262 may also be of this phase and 1228 certainly seems to belong. 1126, however, is stratigraphically later than 1118 and it may be that the associated pottery is later. In total, these contexts only produced 13 sherds, most of which are sandy greywares (GREY) although they include Central Gaulish Samian ware (SAMCG) of mid 2nd-century date (Table 3).

Table 3

Cname	Data	1118	1228	Grand Total
GREY	Nosh	5	9	14
	NoV	4	3	7

	Weight	73	37	110
GRFF	Nosh	1		1
	NoV	1		1
	Weight	13		13
SAMCG	Nosh		1	1
	NoV		1	1
	Weight		2	2
Totals	Nosh	6	10	16
	NoV	5	4	9
	Weight	86	39	125

Phase 3 consists of features which contained pottery assemblages which include Dales ware and can be dated to the mid 3rd century or later.

There are 16 groups which date to this phase: 1078, 1108, 1134, 1144, 1157, 1165, 1169, 1170, 1178, 1198, 1239, and 1262 (Table 4).

Greywares are still the most common ware in these groups but 9 of the groups contain Dales ware.

Table 4

cname	Data	1078	1108	1134	1144	1157	1165	1169	1170	1178	1198	1239	1262	Grand Total
CALC	Nosh	1												1
	NoV	1												1
	Weight	38												38
COAR	Nosh	9												9
	NoV	6												6
	Weight	195												195
DR20	Nosh		1											1
	NoV		1											1
	Weight		484											484
DWSH	Nosh	61	20	1	58	1		3	4		1	1		150
	NoV	60	7	1	6	1		3	3		1	1		83
	Weight	1205	605	61	1448	6		1	67		8	3		3404
DWSH?	Nosh		2											2
	NoV		2											2
	Weight		10											10

GFIN	Nosh													1
	NoV													1
	Weight													1
GREY	Nosh	40	43		10		1	1	5	5		3	2	110
	NoV	39	2		4		1	1	4	3		2	2	58
	Weight	1019	838		325		8	2	80	112		31	4	2419
GRFF	Nosh	7	12							4				23
	NoV	6	1							1				8
	Weight	316	344							42				702
GYBN	Nosh						1							1
	NoV						1							1
	Weight						21							21
LOOL	Nosh	7												7
	NoV	5												5
	Weight	253												253
MORT	Nosh	5							1					6
	NoV	2							1					3
	Weight	308							40					348
NVCC	Nosh								1					1
	NoV								1					1
	Weight								23					23
OX	Nosh	1												1
	NoV	1												1
	Weight	25												25
OXF	Nosh	1							2					3
	NoV	1							2					3
	Weight	15							7					22
OXWS	Nosh	1												1
	NoV	1												1
	Weight	20												20
Totals	Nosh	133	79	1	68	2	1	4	17	5	1	4	2	317
	NoV	122	14	1	10	2	1	4	12	3	1	3	2	175
	Weight	3394	2282	61	1773	27	8	3	259	112	8	34	4	7965

Phase 4 consists of features containing pottery assemblages which include Calcite-tempered wares or Crambeck Greyware. Both of these types were in production in the later 3rd century and were both made to the north of Elloughton, in the Vale of Pickering. Here, however, they must post-date the peak of Dales ware production and

so can be dated to the mid/late 4th century (Table 5). Ten groups contain pottery of this phase. These are: 1080, 1110, 1135, 1149, 1212, 1221, 1241, 1250, 1254 and 1258. The latter two groups are at the base of the sequence of natural hillwash deposits. The lowest of these, 1258, contains an abraded fragment of what appears to be a medieval flat roof tile of the type produced in Beverley from the 12th to at least the 14th centuries. It may therefore be that this entire sequence is of post-Roman date.

Table 5

Cname	Data	1080	1110	1135	1149	1212	1221	1241	1250	1252	1254	1257	1258	Grand Total	
CALC	Nosh	1	1	2	5	1	1	2				1		14	
	NoV	1	1	1	1	1	1	2				1		9	
	Weight	12	7	25	26	7	1	42				15		135	
COAR	Nosh											1	1	2	4
	NoV											1	1	2	4
	Weight											4	5	5	14
CRGR	Nosh		1										1	2	
	NoV		1										1	2	
	Weight		20										17	37	
CRGR?	Nosh								1					1	
	NoV								1					1	
	Weight								5					5	
DWSH	Nosh	1	6									1	1	9	
	NoV	1	3									1	1	6	
	Weight	2	95									6	3	106	
FLIN	Nosh										1			1	
	NoV										1			1	
	Weight										2			2	
GREY	Nosh		7						2	2	3	2	1	17	
	NoV		7						2	2	3	2	1	17	
	Weight		162						7	6	16	23	2	216	
GROG	Nosh											1		1	
	NoV											1		1	
	Weight											4		4	
LOOL	Nosh					1								1	
	NoV					1								1	
	Weight					3								3	
MOMH	Nosh										1		1		

	NoV													1	1	
	Weight													57	57	
MTIL	Nosh														1	1
	NoV														1	1
	Weight														7	7
OX	Nosh					2										2
	NoV					2										2
	Weight					4										4
PREH	Nosh														1	1
	NoV														1	1
	Weight														1	1
Totals	Nosh	2	15	2	5	4	1	2	3	3	6	5	7			55
	NoV	2	12	1	1	4	1	2	3	3	6	5	7			47
	Weight	14	284	25	26	14	1	42	12	8	92	38	35			591

The Pottery

Wares

Most the wares identified at Elloughton are standardised Romano-British types which are well-known on either side of the Humber. In fact, the collection is more similar to that from Lincoln than that from York and therefore the Lincoln fabric series codes have been used for classification (Table 6).

Table 6

Cname	Data	1	2	3	4us	Grand Total
CALC	Nosh			1	14	15
	NoV			1	9	10
	Weight			38	135	173
COAR	Nosh			9	4	13
	NoV			6	4	10
	Weight			195	14	209
CRGR	Nosh				2	2
	NoV				2	2
	Weight				37	37
CRGR?	Nosh				1	1
	NoV				1	1
	Weight				5	5
DR20	Nosh			1		1
	NoV			1		1

	Weight		484		484	
DWSH	Nosh		150	9	159	
	NoV		83	6	89	
	Weight		3404	106	3510	
DWSH?	Nosh	1	2		3	
	NoV	1	2		3	
	Weight	3	10		13	
FLIN	Nosh	1		1	2	
	NoV	1		1	2	
	Weight	2		2	4	
GFIN	Nosh		1		1	
	NoV		1		1	
	Weight		1		1	
GREY	Nosh	14	110	17	2	143
	NoV	7	58	17	2	84
	Weight	110	2419	216	30	2775
GRFF	Nosh	1	23			24
	NoV	1	8			9
	Weight	13	702			715
GROG	Nosh			1		1
	NoV			1		1
	Weight			4		4
GRSH	Nosh	1				1
	NoV	1				1
	Weight	27				27
GYBN	Nosh		1			1
	NoV		1			1
	Weight		21			21
LOOL	Nosh	22	7	1		30
	NoV	11	5	1		17
	Weight	187	253	3		443
LOOL?	Nosh	1				1
	NoV	1				1
	Weight	11				11
MOMH	Nosh			1		1
	NoV			1		1
	Weight			57		57
MORT	Nosh		6			6
	NoV		3			3

	Weight						348	348
NVCC	Nosh						1	1
	NoV						1	1
	Weight						23	23
OX	Nosh	1		1	2			4
	NoV	1		1	2			4
	Weight	3		25	4			32
OXF	Nosh			3				3
	NoV			3				3
	Weight			22				22
OXWS	Nosh			1				1
	NoV			1				1
	Weight			20				20
PREH	Nosh				1			1
	NoV				1			1
	Weight				1			1
SAMCG	Nosh		1			1		2
	NoV		1			1		2
	Weight		2			19		21
Totals	Nosh	27	16	317	55	4		419
	NoV	16	9	175	47	4		251
	Weight	233	125	7965	591	52		8966
av sh wt		9	8	25	11	13		21
av vess wt		15	14	46	13	13		36
av sh / vess		1.7	1.8	1.8	1.2	1.0		1.7

Amphorae

DR20. A single large fragment from a Dressel 20 amphora of late type (ie 2nd/3rd century) was found.

Coarse wares

CALC. Calcite-tempered wares. Petrological analysis has confirmed that the majority of the calcite tempered wares found in the late Roman period in the north were produced at kiln sites in the Vale of Pickering. Three phases in production have been recognised. The first three are based mainly on the development of jar rims and the last on firing. Towards the end of the 4th century calcite tempered wares which were completely oxidized, CALOX, replace the earlier black-cored vessels. No such vessels were present at this site, however.

COAR – Vessels with a coarse gravel temper. The ten vessels in this group from this site have distinctive fabrics containing individual ooliths and/or limestone. Neither of these inclusion types occur in local solid rocks nor are they noted in the local superficial sands and gravels, where the only calcareous inclusions are likely to be from the chalk. It is likely,

therefore, that these vessels were produced in Lincolnshire. However, this requires confirmation using scientific characterisation methods.

DWSH – Dales shelly ware. Petrological analysis of shell-tempered jars with a lid-seated rim from East Yorkshire, South Yorkshire and Lincolnshire in the 1970s indicated that they probably had a single source, in north Lincolnshire. The high proportion of Dales shelly ware at this site is in agreement with this conclusion. However, a number of sherds contained either oolites or shelly limestone fragments. Neither inclusion type has been noted in the Dales ware from Lincoln or York examined by the authors. It is recommended, therefore, that scientific characterisation is carried out on a selection of Dales shelly ware vessels, to cover both 'standard' and 'variant' fabrics.

FLIN. Two sherds of flint-tempered ware were found. Both were abraded but come from thin-walled vessels, rather different in character from the typical late Bronze Age to early Roman coarse wares found in North and East Yorkshire. The fabric of these two vessels is similar. Both contain abundant rounded quartz sand up to 0.5mm across, but mainly finer. Some of the grains appear to be haematite coated. The flint fragments are angular and patinated with some rounding/polishing of the edges. These are therefore detrital grains rather than debitage.

GREY. Roman greyware. Wheelthrown vessels with a quartz sand temper and either deliberately reduced surfaces or completely reduced. These vessels probably come from a variety of sources.

GRFF. Grey fairly fine ware.

GRSH. Grog with shell tempered ware

GYBN. Greywares with burnished decoration

LOOL. Coarsewares with Oolitic gravel temper

PREH? Prehistoric wares

CRGR. Crambeck greyware.

GFIN. Misc fine Greywares

Fine wares

NVCC. Nene Valley colour-coated ware

Oxidized wares

OX. Misc oxidized wares

OXF. Misc oxidized finewares

OXWS. Misc oxidized

Samian ware

SAMCG. Central Gaulish Samian ware. Two small pieces of this ware were found on the site, one unstratified and the other from 1225.

Mortaria

MOMH. Mancetter-Hartshill Mortaria.

MORT. Misc Mortaria.

Forms and function

Three hundred and fifty five sherds could be assigned to a form (Table 7). These represent no more than 187 vessels. The most common type present was the jar, followed by misc closed forms, most which would have also come from jars. Bowls were the next most common form, most of which were

wide mouthed vessels. The next most common form group consisted of sherds which might be from jars or bowls. Other forms were rare. They include Mortaria, amphora, lids, beakers and dishes. The low variety of forms represented in the collection is in strong contrast with the situation in York or Lincoln, and even with the material from Brough on Humber.

Traces of use were rarely present. Burning or internal sooting on the inside of vessels was noted in five instances, all jars or other closed forms. Limescale, caused by the use of a vessel for boiling water, was even rarer, with just two examples. Sooting on the exterior of vessels was noted on 11 examples, mostly Dales shelly ware jars. But also on one dish. Thus, most of the vessels showed no signs of use. It may be that they too were used in cooking but that the soot traces do not survive in the harsh soil conditions of the site but it is also possible that the majority of the vessels were used for storage.

By comparison with Roman urban pottery assemblages, therefore, the Elloughton pottery shows a strong bias towards jars with no signs of use. This, however, may simply be an indication of the poverty of sites like Elloughton rather than a concentration on specific activities.

Table 7

group	Data	1	2	3	4	Grand Total
Jar	NoV	2	7	67	14	90
	Nosh	3	13	141	17	174
	Weight	75	108	3793	219	4195
Closed	NoV	5	1	35	14	55
	Nosh	15	2	40	19	76
	Weight	61	15	564	128	768
Bowl	NoV	1	1	13	1	16
	Nosh	1	1	73	1	76
	Weight	11	2	1753	43	1809
Jar/bowl	NoV	2		5	2	9
	Nosh	2		5	2	9
	Weight	17		87	67	171
Mortaria	NoV			3	1	4
	Nosh			6	1	7
	Weight			348	57	405
Lid	NoV			3		3
	Nosh			3		3
	Weight			80		80
Beaker	NoV			2		2
	Nosh			2		2
	Weight			25		25
Bowl/dish	NoV				2	2

	Nosh			2	2
	Weight			30	30
Cook pot	NoV	2			2
	Nosh	2			2
	Weight	67			67
Amph	NoV		1		1
	Nosh		1		1
	Weight		484		484
Dish	NoV		1		1
	Nosh		1		1
	Weight		243		243
Jar/beaker	NoV		1		1
	Nosh		1		1
	Weight		5		5
Open	NoV		1		1
	Nosh		1		1
	Weight		15		15
	NoV	12	9	132	34
	Nosh	23	16	274	42
	Weight	231	125	7397	544

Statement of potential (MAP2 A4.2)

The pottery from Elloughton spans four centuries although the main period of activity was in the mid 3rd to early 4th centuries. For that period the collection is large enough to provide a clear picture of pottery use on an agricultural settlement. For earlier and later periods the main interest and potential of the collection is to establish the date of occupation and abandonment of the settlement. This requires dialogue between the site stratigraphy and the pottery evidence. Four hours is probably sufficient time, plus travel to York if this proves necessary. It may also prove necessary to examine some of the pottery in more detail once a final phasing of the site has been agreed. A further four hours is estimates for this. At 2002 rates these two tasks amount to £174.

A number of vessels have been selected for illustration (Table 8). In most cases the selection criterion is that they are unusual forms not present in either the York or forthcoming Lincoln corpora. Most of these drawings are of undecorated vessels which should, therefore, be relatively quick to draw. Assuming one hour per drawing this is a total of £343 at 2002 rates.

Table 8

Phasegroup	Context	Context	Cname	Form	DN	Description
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1	1027	1026	LOOL	CPN	D01	RIM SHLDR FLAKE; UNUS; TS
1	1021	1020	LOOL	JCUR	D02	RIM BS; SOME OL W FE TS
1	1072	1071	LOOL?	BFL	D03	RIM GIRTH; LGE LIMEST NO FOSSILS
3	1078	1076	MORT	MBF	D04	RIMS BSS V UNUS FLINT TRITS SHOW K HARTLEY
3	1078	1076	GREY	JNN	D05	RIM SHLDR V LGE SH
3	1078	1076	GREY	BWM	D06	RIM SHLDR SHRT NECK
3	1078	1076	GREY	BWM	D07	RIM SHLDR SHRT NECK; LGE VESS
3	1078	1076	OXWS	BGR	D08	RIM LWR WALL
3	1078	1076	CALC	JCURS	D09	RIM PROTOHUNT;KNAPTON TS
3	1108	1107	GRFF	BWM	D10	RIM LWR WALL BSS V UNSU BIFURC ATED
3	1108	1107	GREY	B	D11	RIMS W COLLAR FRAGS;POSS LID;SAME AS
3	1108	1107	GFIN		D12	BS EXTRACT AGV; POSS FABRIC IMPRESSION
3	1108	1107	GREY	DPR	D13	RIM BASE PROF; USED AS LID?; SWL UNDER BASE
3	1108	1107	DWSH	JDW	D14	RIMS
3	1144	1111	DWSH	JDW	D15	RIMS SHLDR BSS; W FOSSILS TS
3	1144	1143	GREY	BFB	D16	RIM BASE PROF; NR COMP; NEAT FINE VESSEL
3	1108	1107	DWSH	JDW	D17	BASE BSS SHLDR PROF RIM MISS CREM? <1>
4	1149	1148	CALC	CLSD	D18	BSS FRAGS CORDON W NOTCH;UNUSUAL
4	1110	1109	GREY	BNN	D19	RIM GIRTH NECKLESS BWM
3	1144	1113	DWSH	JDW	D21	RIM SHLDR BSS W OOLITHS?;TS
3	1078	1077	GREY	BWM	D22	RIMS GIRTH SHORT NECK
3	1078	1077	COAR	JCUR	D23	RIM; OOLITHS; TS
3	1078	1077	LOOL	JCUR	D24	RIM NECK

Twenty sherds were selected for thin-section analysis (Table 8). They were chosen for further analysis mainly because of the presence, observed at x20 magnification, of ooliths and limestone which may indicate an origin in an area of Jurassic rocks rather than the Cretaceous rocks and Quaternary drift which characterises Elloughton itself. Both thin section analysis and chemical analysis are recommended. At 2002 rates this amounts to £840.

Table 9

No	Phase	period code	context group	Contextname	Form REFNO	Description
1	3	LROM	1078	1076	COAR J	BASE W LOOL TS
2	3	LROM	1078	1076	COAR L?	BSS W LOOL TS
3	3	LROM	1144	1113	DWSHJDW	BSS NECK; SOME OOLITHS?; TS?
4	3	LROM	1144	1113	DWSHJDW	BASE BSS THICK; TS?

5	3	LROM	1078	1077	DWSHJDW		RIM SHLDR TS?
6	3	LROM	1078	1077	DWSHJ		BASE BS V THICK TS?
7	3	LROM	1078	1077	DWSHJ		BS BASAL V THICK TS?
8	3	LROM	1078	1077	COAR CLSD		BASE BSS; OOLITHS; TS
9	1	PRE-EROM	1021	1020	SHEL		BS W GROG? LIMESTONE TS?
10	1	PRE-EROM	1021	1020	SHEL JBEV		RIM OXID SOME OOL TS?
11	4	VLROM	1212	1211	LOOL		BS W ROCKS;TS?
12	4	VLROM	1110	1109	DWSHJDW		RIM BS; SOME OL W FE TS
13	4	VLROM	1241	1271	CALC CLSD		BS; POSS HUNT TYPE;TS?
14	4	VLROM	1241	1274	CALC JHUNV		RIM NO GROOVE; POSS BHUNV;TS?
15	1	PRE-EROM	1027	1026	LOOL CPN	D01	RIM SHLDR FLAKE; UNUS; TS
16	1	PRE-EROM	1021	1020	LOOL JCUR	D02	RIM BS; SOME OL W FE TS
17	3	LROM	1078	1076	CALC JCURSD09		RIM PROTOHUNT;KNAPTON TS
18	3	LROM	1144	1111	DWSHJDW	D15	RIMS SHLDR BSS; W FOSSILS TS
19	3	LROM	1144	1113	DWSHJDW	D21	RIM SHLDR BSS W OOLITHS?;TS
20	3	LROM	1078	1077	COAR JCUR	D23	RIM; OOLITHS; TS

Storage and curation (MAP2 A4.3)

The pottery is stable and requires no special storage conditions or treatment with the exception of a Dales shelly ware vessel which was excavated as a block and still retains its contents. These contents seem to consist of a fine ashy material rather than cremated bone but it would be worthwhile undertaking an X-ray of the vessel before submitting the contents to sieving or other destructive analysis.

Appendix One. Catalogue of recorded pottery

Context	cname	subfabric	Form	Nosh	NoV	Part	Weight	REFNO	Condition	Use	Description
SURF	SAMCG			1	1BS		19		VABR		FTRG
SURF	ZDATE										ML2/POSTRO
US	GREY		CLSD	1	1BS		17				BS; ID BLSF
US	GREY		CLSD	1	1BS		13		ABR		BS
US	ZDATE										L3-4C
1020	GRSH		J?	1	1BS		27				BASE
1020	LOOL		CLSD	1	1BS		4				BS
1020	LOOL		CLSD	11	1BS		35			SOOTIN	BSS
1020	LOOL		CLSD	2	2BS		9				BSS W SAND
1020	LOOL		JCUR	2	1BS		48D02				RIM BS; SOME OL W FE TS
1020	OX		JB	1	1BS		3				RIM FRAG NO LIP
1020	SHEL			1	1BS		16				BS W GROG? LIMESTONE TS?
1020	SHEL		JBEV	1	1BS		14				RIM OXID SOME OOL TS?
1020	ZDATE										LIA-EROM
1020	ZZZ										UNUS LOOL W FE; EXTR CXT FOR TS
1026	LOOL		CPN	2	2BS		67D01				RIM SHLDR FLAKE; UNUS; TS
1026	ZDATE										MLIA
1026	ZZZ										LGE SH
1032	DWSH?			1	1BS		3				BS
1032	ZDATE										3C?

1065	LOOL		1	1BS	2		FRAG INC FOSSILS
1065	ZDATE						IA
1065	ZZZ						INC PEBBLE
1071	FCLAY	A SA Q >0.2MM;M MUSC >0.1MM	8	8BS	3		FRAGS RED SANDY
1071	LOOL		2	2BS	9		BSS
1071	LOOL	CLSD	1	1BS	13	SOOTIN	BS
1071	LOOL?	BFL	1	1BS	11D03		RIM GIRTH; LGE LIMEST NO FOSSILS
1071	ZDATE						EROM
1071	ZZZ						PROB FLAV
1073	FLIN	A RQ>0.5MM;S A WHITE FLINT >2.0MM	1	1BS	2	ABR	FRAG; EXTR
1073	ZDATE						PREH?
1075	DWSH	J	1	1BS	18	SOOTIN	BS NECK
1075	DWSH	JDW	3	2BS	49		RIMS NECK BS
1075	GREY		1	1BS	24		BS
1075	GREY	B	2	1BS	24	ABR	RIMS POSS USED AS LID SAME AS
1075	GREY	CLSD	1	1BS	4		BS
1075	GREY	J	1	1BS	28	ABR	BS NECK GIRTH GROOVES
1075	GRFF	J	4	1BS	42		BSS
1075	MORT	M	1	1BS	40		BS RDBN FAB Q TRITS EXTR
1075	NVCC	BK	1	1BS	23	BURNT	FTM WHT FAB
1075	OXF	BK	1	1BS	2	ABR	BS ORANGE NR BROUGH?
1075	OXF	JBK	1	1BS	5	ABR	BS ORANGE

1075	ZDATE						M3C+
1076	CALC	JCURS	1	1BS	38D09		RIM PROTOHUNT;KNAPTON TS
1076	COAR	J	1	1BS	31		BASE W LOOL TS
1076	COAR	L?	3	3BS	80		BSS W LOOL TS
1076	DWSH		35	35BS	529		BASES BSS
1076	DWSH	JDW	4	4BS	105		BSS SHLDRS
1076	DWSH	JDW	1	1BS	29		RIM
1076	DWSH	JDW	2	1BS	35		RIMS
1076	GREY	BWM	1	1BS	48		BS SHLDR BLK FAB
1076	GREY	BWM	1	1BS	50D06		RIM SHLDR SHRT NECK
1076	GREY	BWM	1	1BS	96D07		RIM SHLDR SHRT NECK; LGE VESS
1076	GREY	BWM?	1	1BS	18		BS BODY GROOVES
1076	GREY	CLSD	2	1BS	40	BURNT	BSS BURNT PART OXID
1076	GREY	CLSD	16	16BS	157		BSS PROB JARS
1076	GREY	J	4	4BS	118		BASES
1076	GREY	JB	2	2BS	32		BSS J
1076	GREY	JBCUR	1	1BS	12		RIM
1076	GREY	JNN	1	1BS	132D05		RIM SHLDR V LGE SH
1076	GRFF	J	2	1BS	128	BURNT	BASE BS BURNT OXID
1076	LOOL	INDIVIDUAL DESCRIPTIONS NEEDED J	3	1B	171		BASES BS UNUS WHEEL MADE
1076	LOOL	A RQ AND S OOLITHS >2.0MM J	1	1BS	7		BS
1076	LOOL	A RQ AND S OOLITHS JBL	1	1BS	35		BS THICK

						>2.0MM
1076	MORT	MBF	4	1BS	296D04	RIMS BSS V UNUS FLINT TRITS SHOW K HARTLEY
1076	OXWS	BGR	1	1BS	20D08	RIM LWR WALL
1076	ZDATE					L3-M4C
1076	ZZZ					LGE SHS; MORT HAS LGE LIMEST
1077	COAR	CLSD	4	1BS	70	BASE BSS; OOLITHS; TS
1077	COAR	JCUR	1	1BS	14D23	RIM; OOLITHS; TS
1077	DWSH	J	1	1BS	24	BS BASAL
1077	DWSH	J	2	2BS	107	SCALE BASE BS V THICK TS?
1077	DWSH	J	9	9BS	140	BSS BASE
1077	DWSH	J	1	1BS	107	BS BASAL V THICK TS?
1077	DWSH	JDW	1	1BS	62	RIM SHLDR TS?
1077	DWSH	JDW	5	5BS	67	SOOTEX RIM NECK BSS
1077	GREY	BWM	3	3BS	202D22	RIMS GIRTH SHORT NECK
1077	GREY	CLSD	3	3BS	44	BS W RDBN MARGINS
1077	GREY	CLSD	3	3BS	58	BASE BS FLAKE
1077	GREY	J	1	1BS	12	BS V COARSE Q
1077	GRFF	CLSD	1	1BS	85	BS BODY GROOVES
1077	GRFF	CLSD	3	3BS	41	BSS
1077	GRFF	J	1	1BS	62	BS
1077	LOOL	CLSD	1	1BS	10	BURNTINBS RDBN
1077	LOOL	JCUR	1	1BS	30D24	RIM NECK
1077	MORT	M	1	1BS	12	BS CF MOSP; WHT SLIP; W MIXED Q FE

								TRITS
1077	OX	CLSD	1	1BS	25			BS BN W DK GRY CORE
1077	OXF	OPEN	1	1BS	15			FTM RDBN
1077	ZDATE							L3-4C
1077	ZZZ							LGE SHS SOME SMASH
1079	CALC		1	1BS	12			BASE
1079	DWSH		1	1BS	2			BS
1079	ZDATE							3-4C
1107	DR20	A	1	1BS	484			BS HANDLE SCAR; LFAB
1107	DWSH	J	4	4BS	25			BSS
1107	DWSH	JDW	1	1BS	34			RIM
1107	DWSH	JDW	2	1BS	109D14			RIMS
1107	DWSH	JDW	13	1BS	437D17			BASE BSS SHLDR PROF RIM MISS CREM? <1>
1107	DWSH?		2	2BS	10			BSS W ECH SPINES? (EXTR)
1107	GFIN		1	1BS	1D12	VABR		BS EXTRACT AGV; POSS FABRIC IMPRESSION
1107	GREY	B	42	1BS	595D11			RIMS W COLLAR FRAGS;POSS LID;SAME AS RIM BASE PROF; USED AS LID?; SWL UNDER BASE
1107	GREY	DPR	1	1BS	243D13	SOOT		
1107	GRFF	BWM	12	1BS	344D10			RIM LWR WALL BSS V UNSU BIFURC ATED
1107	rpot	shell/calcite	jar	1	1			
1107	ZDATE							M3-4C
1107	ZZZ							LGE SHS; SMASH; CREM?

1109	CALC	CLSD	1	1BS	7		BS
1109	CRGR	JBL	1	1BS	20		BS
1109	DWSH	BD?	1	1BS	13		BASE SOME FOSS/ROUND LIMEST
1109	DWSH	JDW	2	1BS	14		RIM BS; SOME OL W FE TS
1109	DWSH	JDW	3	1BS	68	SOOTR	RIMS BSS; RARE ECH SPINES LIMEST
1109	FIRED CLAY	DAUB	1	1BS	8	ABR	FLAT FACE AND WATTLE IMPR
1109	GREY	BNN	1	1BS	43D19		RIM GIRTH NECKLESS BWM
1109	GREY	J	1	1BS	26		BS AS IN
1109	GREY	J	4	4BS	46		BSS
1109	GREY	JB	1	1BS	47		BASE BLK W RARE ROUND LIMEST; CF BLSF
1109	ZDATE						4C
1111	DWSH	JDW	11	1BS	285D15	SOOTR	RIMS SHLDR BSS; W FOSSILS TS
1111	GREY	J	1	1BS	7		BS
1111	ZDATE						M3-E4C
1111	ZZZ						SMASH? LGE SHS
1113	DWSH	JDW	28	1BS	405		BSS NECK; SOME OOLITHS?; TS?
1113	DWSH	JDW	1	1BS	13		BS NECK
1113	DWSH	JDW	4	1BS	113	SOOT	BSS NECK
1113	DWSH	JDW	11	1BS	523		BASE BSS THICK; TS?
1113	DWSH	JDW	3	1BS	109D21	SOOT	RIM SHLDR BSS W OOLITHS?;TS
1113	GREY	J	2	1BS	18		BASES J
1113	GREY	J	1	1BS	24		BS BASAL

1113	ZDATE						M3-E4C
1113	ZZZ						SMASHED LGE SHS
1119	GREY	J	2	1BS	44		BSS AS IN
1119	GREY	J	1	1BS	6	ABR	BS
1119	GRFF	JEV	1	1BS	13		RIM
1119	ZDATE						L2-3C
1123	GREY	J	1	1BS	20		BS AS IN
1123	ZDATE						L2-3C
1133	DWSH	J	1	1BS	61		BURNTINBS LGE SH
1133	ZDATE						M3-4C
1136	CALC	CLSD	2	1BS	25		BSS
1136	ZDATE						3-4C
1143	GREY	BFB	6	1BS	276D16		RIM BASE PROF; NR COMP; NEAT FINE VESSEL
1143	ZDATE						L3-4C
1143	ZZZ						SMASH
1148	CALC	CLSD	5	1BS	26D18		BSS FRAGS CORDON W NOTCH;UNUSUAL
1148	ZDATE						4C
1154	GREY	JCUR	1	1BS	3		RIM
1154	ZDATE						2-3C
1156	DWSH	J	1	1BS	6		BS
1156	GYBN	J	1	1BS	21		BS
1156	ZDATE						M3C+

1164	GREY		JB	1	1BS	8		BS BODY GROVE
1164	ZDATE							3C+
1167	DWSH			3	3BS	1	VABR	FRAGS
1167	GREY		CLSD	1	1BS	2		BS
1167	ZDATE							M3C+
1167	ZZZ							V SMALL SHS
1175	GREY		BWM	3	1BS	80		RIM BSS J; SHORT NECK
1175	GREY		J	1	1BS	3		BS BODY GROVE
1175	ZDATE							M3C+
1177	GREY		J	1	1BS	29		BASE HIGH FIRED
1177	ZDATE							2-3C
1188	STONE	PINKISH CHALK	PEBBLE	2	2BS	18		FRAGS
1188	ZDATE							RO?
1197	DWSH		J	1	1BS	8		BS W LIMEST
1197	STONE	NATURAL IRON CONCRETION;CRYSTALS >3.0MM		1	1BS	1		FRAG
1197	ZDATE							M3C+
1211	CALC		CLSD	1	1BS	7	SOOTEX	BS KNAPTON
1211	LOOL			1	1BS	3	ABR	BS W ROCKS;TS?
1211	OX			2	2BS	4		BSS RO?
1211	RTIL	CALC GROUNDMASS;MIGHT BE MED BEVO?		1	1BS	1		

1211	RTIL	MICACEOUS GROUNDMASS		1	1BS	1		
1211	ZDATE							3-4C
1220	CALC			1	1BS	1		SCRAP
1220	ZDATE							3-4C
1224	GREY		CLSD	2	1BS	15	ABR	BSS J
1224	ZDATE							M2-3C+
1225	GREY		J	1	1BS	7	ABR	BS
1225	GREY		JCUR?	6	1BS	15		BSS FLAKES CORDON
1225	SAMCG		37	1	1BS	2		BS OVOLO
1225	ZDATE							M2C+
1225	ZZZ							MIX?
1238	DWSH			1	1BS	3		FLAKE
1238	GREY		CLSD	2	1BS	24	BURNT	BSS J; GYBN
1238	GREY		J105	1	1BS	7		RIM
1238	ZDATE							M3C+
1249	CRGR?		J	1	1BS	5		BS POSS NVGR
1249	GREY			1	1BS	3	ABR	FLAKE
1249	GREY		CLSD	1	1BS	4		BS
1249	ZDATE							4C?
1251	FLIN	A RQ >0.5MM;S A WHITE FLINT >1.0MM		1	1BS	2	VABR	BS
1251	GREY		CLSD	2	2BS	6		BSS
1251	ZDATE							M2-3C+

1253	CALC		CLSD	1	1BS	15		BS PROB HUNTCLIFF TYPE
1253	COAR		CLSD	1	1BS	4	ABR	BS W LIMEST
1253	GREY		CLSD	2	2BS	10	VABR	BSS BLK W LIMEST
1253	GREY		J	1	1BS	6	ABR	BS
1253	MOMH		MHH	1	1BS	57		RIM UPPER WALL LIP
1253	ZDATE							L3-4C
1253	ZZZ							MEDIUM - SMALL SHS
1257	COAR		CLSD	1	1BS	5		BS W R LIMEST- OOLITHS?
1257	DWSH			1	1BS	6		BS
1257	GREY			1	1BS	2		FLAKE
1257	GREY		JNN	1	1BS	21		BS
1257	GROG	OXID AND WHITE-FIRING GROG	CLSD	1	1B	4		FLAT BASE
1257	ZDATE							M3C+
1258	COAR			2	2BS	5	ABR	BSS W LIMEST
1258	CRGR		BD	1	1BS	17		BASE
1258	DWSH		J	1	1BS	3	ABR	BS W LIMEST
1258	GREY		J	1	1BS	2		BS
1258	MTIL	BEVO?		1	1BS	7	ABR	BS RDBN;THICK
1258	PREH	S A FINE-GRAINED SST >3.0MM;A SA Q (INC MGSST)	J	1	1BS	1		ABR PREH?
1258	ZDATE							4C
1258	ZZZ							SMALL ABR SHS

1263	GREY	CLSD	2	2BS	4	BS FRAG
1263	ZDATE					M2-3C+
1263	ZZZ					V SMALL SHS
1271	CALC	CLSD	1	1BS	15	BS; POSS HUNT TYPE;TS?
1271	ZDATE					4C
1274	CALC	JHUNV	1	1BS	27	RIM NO GROOVE; POSS BHUNV;TS?
1274	ZDATE					4C

Appendix Two. List of Ware codes

cname	group	name
COAR	Reduced	Miscellaneous coarse wares
CRGR	Reduced	Crambeck grey wares
CRGR?	Reduced	Crambeck grey wares
DR20	Amph	Dr 20 amphorae
DWSH	Shell	Late shell-tempered; Dales ware; lid-seated jars
DWSH?	Shell	Late shell-tempered; Dales ware; lid-seated jars
FLIN	Reduced	Flint-tempered
GFIN	Reduced	Miscellaneous fine grey wares
GREY	Reduced	Miscellaneous grey wares
GRFF	Reduced	Grey fairly fine tempered ware
GROG	Reduced	Grog-tempered wares
GRSH	Shell	South Lincs Grog with shell
GYBN	Reduced	Grey with brown surfaces
LOOL	Reduced	Coarse sandy with ooliths
LOOL?	Reduced	Coarse sandy with ooliths
MOMH	Mort	Mancetter-Hartshill mortaria
MORT	Mort	Mortaria; undifferentiated
NVCC	Fine	Nene Valley colour-coated
OX	Oxid	Miscellaneous oxidized wares
OXF	Oxid	Fine oxidized wares
OXWS	Oxid	Oxidized with white slip
PREH	Prehistoric	Miscellaneous Prehistoric wares
SAMCG	Samian	Central Gaulish
shel	Shell	Miscellaneous undifferentiated shell-tempered

Appendix Three. List of Form codes used

form	group	Name	Nosh	NoV	Weight
37	Bowl	Dr 37	1	1	2
A	Amph	unclassified	1	1	484
B	Bowl	unclassified	44	2	619
BD	Bowl/dish	Bowl or dish	1	1	17
BD?	Bowl/dish	Bowl or dish	1	1	13
BFB	Bowl	Bead and flange bowl	6	1	276
BFL	Bowl	Flanged rimmed	1	1	11
BGR	Bowl	with grooved rim	1	1	20
BK	Beaker	unclassified	2	2	25
BNN	Bowl	BWM un-necked	1	1	43
BWM	Bowl	Wide-mouthed	21	8	820
BWM?	Bowl	Wide-mouthed	1	1	18
CLSD	Closed	form	78	57	798
CPN	Cook pot	native tradition	2	2	67
DPR	Dish	Plain rim	1	1	243
J	Jar	unclassified	61	53	1363
J?	Jar	unclassified	1	1	27
J105	Jar	Coppack 1973;fig 5;no 17; original ts	1	1	7
JB	Jar/bowl	unclassified	5	5	90
JBCUR	Jar/bowl	curved rim	1	1	12
JBEV	Jar/bowl	everted rim	1	1	14
JBK	Jar/beaker	Jar or beaker	1	1	5
JBL	Jar/bowl	large	2	2	55
JCUR	Jar	curved (not clearly cp)	5	4	95
JCUR?	Jar	curved (not clearly cp)	6	1	15
JCURS	Jar	Strongly curved S-profile	1	1	38
JDW	Jar	Dales ware	95	25	2457
JEV	Jar	everted rim	1	1	13
JHUNV	Jar	Huntcliff jar with no internal seating	1	1	27
JNN	Jar	Narrow-necked	2	2	153
L?	Lid	unclassified	3	3	80
M	Mortaria	unclassified	2	2	52

form	group	Name	Nosh	NoV	Weight
MBF	Mortaria	Bead-and-flange rimmed	4	1	296
MHH	Mortaria	Hammerhead	1	1	57
OPEN	Open	Bowl/dish	1	1	15