THE LAYER LIST

Doubtful features are preceded on the layer list by a question mark and marked on plan with a dashed line. Where a feature definitely exists but its identification as a particular category is doubtful a question mark is put after the feature. Features are only shown on plans of those phases to which they belong or probably belong. The finds are ordered in the sequence of the finds report.

List of Abbreviations in Layer List

AF	Architectural fragment	MF	Mortae flenks or fragments
£F	Charcoal flecks	NOP	Not on plan
CP	Clay pipo	Nu	Coin or token
Cr	Crucible	Pb	Lead
Cu	Copper alloy	PH	Posthole
Fæ	Ir an	Q	Quern
۴Ľ	furnace lining >100g	RT	Stone roof tile
f1	Furnace lining <100g	SD	Surviving depth
FS	Forging slag >100g	SFB	Sunken-fewtured building
fs	Forging slag <100g	SH	Stakehole
BL	Glass	sw	Spindlewhorl
Н	Hone	T	Textile
HAR	Radiocarbon measurement	TS	Tap stag >100g
1 F	lronstone fragment	ts	Tap slag <100g
LF	Limestone fragment	WB	Worked bone
(M)	Munsell colour	WS	Other worked stone

LAYER	PHARE	DESCRIPTION
1	4Bi i	(2, 4, 5, 9, 12-20, 22, 25-6, 29, 44, 47, 53; W1, 2, 6, 8, 9, 20, 47, 72-3, 77, 91-3; X3-9; Z3-4, 9, 11, 14). Layer(s); brown (M) sandy luam, hF, CF, IF, mixed pit fills, 'garden soil', and demolition rubble; material spaded off in initial clearance, NOP, Finds: Cu6, 10, 90; Fe33, 40, 113, 114, 115, 127; fl; FS; ts; NS5; GL; CP; W844.
(2)		= 1
3	491 i	Pipm trench, SD 0.43m; modern drain pipm and construction trench. NGP.
(4)		= 1
(5)		= 1
(6)		= 1
7	3/4Ai	= (8, 10, 39, 41, 48, 61). Layer; strong brown (M) sand, CF, many MF, NDP.
(B)		= 7
(9)		= 1
(10)		# 7
11	2//4Ai	Layer; reddish yellow (M) sand, CF, MF. NOP.
(12)		= 1
(13)		= 1
(14)		= 1
(15)		= 1
(16)		= 1
(17)		= 1
(18)		- 1
(19)		= 1
(20)		∞ 1
21	4A 1	" (66-7, 74). Pit, SD 0.67m; .1 yellowish brown (M) clay loam, MF, CF, IF; .2 (66) IF, LF set in very pale brown (M) line ? morter slurry; .3 (74) reddish yellow (M) sandy loam, MF2 and .3 probably redeposited material from 68. Finds: Fe102.
(22)		= 1
23	4Ai	= (32). Layer; olive brown (M) sandy
		clay loam, CF, IF, MF. Subsidence into pit 24 but may be redeposited from earlier context. NOP.
24	4A1	= (46, 49, 50). Pit, SD 0.70m; yellowish brown (M) clay loam, MF, CF, IF. Finds: fl: fs.
(25)		= 1
(26)		= 1
27	3/ 4Ai	= (33, 42-3, 55-6, 45, 78). Pit; .1 (33) awh; .2 (42) dark grayish brown (M) clay loam, MF, CF, IF; .3 (43, 55) dark grayish

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brown clay loam and light yellowish brown
                       (M) sandy loam, lumps of mortar; .4 (55,
                       65) strong brown (M) wandy loam, MF; .5
                       (78) wixed strong brown sandy loam and
                       yellowish brown loam, MF.
                       Finds: Fe41, 89, 90.
                      Wall, ironstone blocks. NOP.
 26
          48
(29)
                       ≖ 1
                       (31, 52). Pit, SD 0.44m, not bottomed;
 30
          4Ai
                       .1 (30-1) brown (M) clay loam, CF, IF; .2
                       (52) dark brown (M) sandy loam, CF, IF,
                      patches of pink sand and mortar.
(31)
                      - 30
(32)
                      - 23
(33)
                      = 27
 34
         4Ai
                      Pit, SD 0.52m; brown clay loam, If, Cf.
 35
          4Ai/ii
                      = (36). Layer, mixed brown (M) clay loam,
                      strong brown (M) wand, IF, CF, MF%
                      subsidence or collapse into pit 34. NOP.
(36)
                      - 33
         3/4Ai
                      Pit, SD 0.23m; brown (M) clay lowm, MF,
 37
                      CF, IF.
                      = (51, 57, AA210). Pit, SD 0.40m; .1 (38)
 38
         4Ai
                      dark grayish brown (M) clay loam, MF, CF,
                      IF, probably redeposited material; .2 (57)
                      yellowish brown (M) sandy loss, MF, flecks
                      of strong brown mand.
                      a 7
(39)
                      = (62). Layer; dark grayish brown (M) clay
 40
         3
                      lose, CF, MF. NOP.
(41)
                      = 7
(42)
                      - 27
                      = 27
(43)
(44)
                      Pit, SD 0.50m; dark yellowish brown (M)
 45
         4Ai
                      clay loam, CF, IF.
(46)
                      = 24
                      - 1
(47)
(4日)
                      <del>-</del> 7
(49)
                      = 24
(50)
                      - 24
(51)
                      - 38
(52)
                      - 30
(53)
                      - 1
54
         4Ai
                      Pit, SD 0.40m; brown (M) sandy loam, IF,
                      clay flecks.
(55)
                      ~ 27
(56)
                      = 27
(57)
                      - 38
58
                      Pit, SD 0.53m; yellowish brown (M) sandy
         4A
                      loam, MF, CF, IF.
59
         3/4A1
                      Pit, 8D 0.77m; ironstone rubble and brown
                      clay loam, CF.
         3//4Aii
60
                      PH, SD 0.20m; brown (M) sandy loam, MF.
                      CF.
                      - 7
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(61)

(62)		= 40
63	3/4Ai	Layer: IF, LF, MF, set in brown (M) sandy loam. Material derived from 68 disturbed by pits 54 and 59. NOP.
64	3	Layer: loose rubble. If, LF, set in brown (M) sandy loam. NOP.
(65)		= 27
(66)		= 21
(67)		= 21
6B	2	= (49-73, 81; W119, 142; see also V81). Foundation trench, SD 0.40m; .1 irrigularly laid ironstone blocks, occasional brick fragments, in places lime/mortar around blocks, elsewhere no matrix; .2 strong brown (M) sand, flacks of pinkish grey clay and ash, small IF, natural flint, pebbles.
(69)		= 48
(70)		= 68
(71)		⇔ 6 9
(72)		= 68
(73)		= 68
(74)		= 21
75	2//4Ai	Layer: mortar/plaster fragments in matrix of yellowish brown (M) sandy clay loam. NOP.
76	1	Foundation trench, SD 0.55m; strong brown (M) sandy loam, Ir.
77	1	Foundation trench, SD 0.45m; strong prown (M) sandy loam; 1F in N half represents packing?
(78)		# 2 7
7 9	prob 2	PH, SD OOm: plaster chunks, little matrix.
80	prob 2	PH, SD 0.25m; plaster chunks, little matrix.
81	2	= (82, 84; wee also VAS). Foundation trench; .1 (81) strong brown (M) sand, clay flecks, MF; .2 (84) small IF, LF; .3 (82) strong brown (M) sand, lF.
(82)		= 81
83	1	?PH, SD 0.15m; strong brown (M) sandy loam. IF.
(日4)		= 81
85	4A	Foundation trench: IF, LF set in dark yellowish brown (M) loam, MF, CF, IF, NOP.
86	1	PH. SD 0.12m; strong brown (M) sandy loam, IF. CF.
87	1	= (N44, 126, 137, 154-5, 166, 168, 182, 190, 195, 203-4, 231-2, 236; X27, 30-1; Y70, 176, 180, 185-6, 189, 199, 211, 242, 254). Layer; strong brown sandy loam, clayey in places, sandier towards bottom. NOP. Finds: fs; ts; W81; 8L; W885.

超過

LAYER	PHASE	DESCRIPTION
+ (1)		Finds: Null; Cul7, 48, 55, 65, 66; AF12-14; RT13, 14; CP. = V1
(2)		= V1
3	4B2.i	= (7, 237). Cellar, SD 1.50m; ironatone walls. Fill (237) - layers of rubble and clay loam - removed mechanically. NOP. Finds: RT12.
4 5	4 4Ai	Wall, ironstone. - (16-7). Pit, SD 0.75m; .1 dark brown (M) sandy loam, CF, 1F; .2 dark brown (M) sandy loam, CF; .3 dark brown (M) sandy loam, CF, 1F; .4 dark grayish brown (M) sandy clay, CF; .5 dark brown (M) sandy loam, CF, 1F; .6 yellowish brown (M) sandy loam, MF. Finds: Cu2; Fe45, 73; fs; ts.
(6)		- V1
(7)		= 3
(B) (9)		= V1 = V1
10	4	=(19,22). Pit/weil, SD 0.45m, not bottomed:
		.1 (19) construction trench and (22) ironstone lining - Phase 4Ai; .2 (10) plive brown (M) clay loam, final infill - Phase 4Bii. Finds: Nul2; fl; fs; GL.
11	4Ai	Pit. SD 0.70m; 1 olive brown (M) sandy loam, 1F; 3 brown sand; 4 greyish brown clay loam, MF. Finds: RT2.
12	3	= (40). Fit, SD 0.50m; .1 (12) dark greyish brown (M) sandy clay loam, CF, burnt soil; .2 (40.1) burnt clay; .3 (40.2) black and brown loam; .4 (40.3) burnt clay overlaid by charcoal; .5 (40.4) yellow orange sand; .6 (40.5), burnt loam; .7 (40.6) pale yellow clay, LF. Connected with metalworking?. Finds: Pb5: F8: ts: WB86.
13	3	Pit, SD 0.50m; plive brown (M) loam, MF, lF, CF, lenses of strong brown (M) sand. Finds include material from pit 35. Finds: Fe79; ts: WB89,
14	3	= (21, 37, 86, 93, X11). Robber trench, SD 0.44m; .1 (14) dark yellowish brown (M) sandy loam, MF; .2 (86.12, .45) yellowish brown (M) sandy loam, many MF, some small IF, natural flint frags; .3 (86.3) strong brown (N) loamy sand, a few MF and small IF, occasional larger IF, LF at bottom and sides. Possibly this layer is

		actually the remains of the bottom of the foundation trench (VéS.2) rather than the robber trench. Finds: FeSO, 129: FS: WBBO, 81.
15	4	PH, SD 0.20m; light plive brown (M) wandy clay. Finds: Cu67.
(16) (17)		≖ 5 = 5
16	4A1	= (25). Pit, SD 0.45m; .1 strong brown (M) silty clay, IF, CF; .2 dark brown (M) silty clay, IF, CF; .3 yellowish brown (M) silty clay, IF; .4 dark brown silty clay; .5 dark brown silty clay, CF, IF. Finds: WB43.
(19)		= 10
(20)		= V1
(21)		= 14
(22)		= 10
23	4Ai	Laver: brown (M) loamy sand, If, CF, clay lecks, compressed. NOP.
24	3	= (31). Pit, &\ O.20m; plive brown milty clay loam, CF. Relationship with 33 uncertain. Finds: fm.
(25)		= 19
26	4A	= (27, 38, 62, 68; Y34, 40-2, 164). Pit, SD 0.75m, not bottomed, with ironstone lining; .1 dark brown (M) sandy loam, IF, CF; .2 dark yellowish brown (M) sandy loam, IF, CF; construction trench (62, 68; Y40, 42) orange brown clay loam, IF, strong brown (M) sandy loam, IF. Finds: fl; fs; H4.
(27)		= 26
28	3	Pit, SD 0.70m; dark yellowish brown (M) clay loam, CF, IF. Finds: fs.
2 9	3	Pit, SD 0.60m; dark yetlowiwh brown (M) clay loam, CF, IF. Findm: F#70; fm.
30	3	Pit, SD O.Büm; dark brown (M) clay toam, CF, IF, patches of blue clay.
(31)		= 24
32	2	= (80). Layer: yellowish brown (M) sand, MF. NOP. Finds: GL.
33	prob 3 po ss 1	PH, SD 0.33m; dark brown (M) clay loam, CF, IF. Relationship with 24 uncertain.
34	prob 3 poss 4	PH, SD 0.12m; dark yellowish brown (M) loam, IF, CF.
35	3	Pit, SD 0.50%; plive brown (M) loam, MF, IF, CF, lenges of strong brown (M) sand. Fill removed as part of pit 13.
34	2	Pit, SD 0.60m; .1 dark brown (M) loam, CF, IF, LF; .2 very dark greyish brown (M)

		1 cam.
(37)		= 14
(38) 39	4Ai	= 26 = (186). Pit, SD 0.25m; yellowish brown (M)
37	444	clay loam, 1F, CF, NF.
(40)		= 12
41	3	= (96), Pit, SD 0.50m; dark brown (M) loam,
		IF, MF, CF.
		Finds: fs.
42	3	Pit: brown sandy loam.
		Finds: fs.
43	3	Pit, BD 0.50m; dark brown (M) clay loam,
		CF, MF, 1F.
		Finds: fs.
(44)	•	= V87
45 46	1 3//4 A li	PH, SD 0.25m; yellowish brown (M) sand. Pit, SD 0.20m; dark yellowish brown (M)
70	3//4811	loamy sand.
(47)		w Vi
48	4Aii/Bi	= (58, 43), Pit/well, SD 0.43m; not
	***************************************	bottomed: .1 (48.1, 63) construction
		trench, grange brown clay loam, IF, LF;
		(58) irunstone and limestone liming - Phase
		4Aii: .2 (48.2) final infill of dark
		greyish brown (M) loam, 1F - Phase
		4A11/4B1,
45		Finds: Pb6.
49	prob 3 pos s 4	PH, SD 0.15m; brown (M) clay leam, CF, IF, MF.
50	2	= (95, 162). Morter mixer. Central PH (95),
20	_	SD 0.50m; brown (M) clay loam, CF, IF, MF.
		Paddle marks2 (= .5), .3 (= .4), .8
		yellow (M) morter, few inclusions. Mix
		residues12 disturbed MF in brown (M)
		clay loam (? disturbed version of .9); .9
		white (M) morter, small IF inclusions; .6
		vellow (M) mortar, small 1F, LF inclusions;
		.7 as .6, fewer inclusions. Base of
		retaining material (162) - yellowish brown
		(M) sand, patches of dark yellowish brown (M) clay loam and light brownish gray (M)
		clay, MF, CF, IF. Spillage material .i (=
		.1011) yellow (M) mortar, few inclusions.
51	prob 3	PH, SD 0.07m; dark greyish brown (M) clay
	poss 4	loam, CF, IF, MF.
52	4A	= (53, 57, 59, 67, 69). Pit(s): dark
		grayish brown clay loam, group of pits
		removed without detailed examination.
48		Finds: Cu96: Pb9: fm; tm; H5.
(53) 54	40:	= 52
54	4Ai	Pit, SD 0.35m; dark yellowish brown (M) clay loam, CF, MF, IF, patches of blue
		clay loam, or, my, ir, pateness of blue clay.
55	4A1	= (N101). Pit, SD 0.80m; dark brown (M)
	-	loam, IF, CF, MF.
		Finds: ts.

56	3	Pit/PH, SD 0.60m; dark brown (M) clay loam; difficult to distinguish from pits 29, 30.
(57)		= 52
(58)		- 48
(59)		= 52
60	4A	Pit. SD 0.26m; greyish brown clay lown, MF. brick.
61 (62)	4Ai	Layer; greyish brown clay loam. NOF. = 26
(63)		= 49
44	3	Foundation trench, SD 0.13m; brown (M) sandy loam, patches of yellowish brown (M) sand, CF, JF, flint fragments.
65	prob 3 poss 4	= (66). PH, SD 0.17m; dark yallowish brown (M) loam, CF, MF, IF.
(66)	poss 4	= 65
(67)		= 5 2
(BB)		= 26
(69)		= 52
70	3	= (74). Layer: dark brown (M) clay loam. MF. LF. NOP.
71	prob 3 poss 4	= (141). PH, SD 0.10m; dark yellowish brown (M) mandy loam, MF, IF.
(72)	PG-1	* V1
(73)		= V1
(74)		= 70
75	3	PH/SH BD 0.25m; .1 derk brown (M) mandy loam, CF; .2 yellowish brown (M) mandy
76	3	loam, CF. SH, SD 0.20m; black (M) wilt loam.
(77)	J	s VI
79	3// 4A 11	Layer: mixed mainly brownish yellow (M) mortar, patches of dark greyish brown (M) clay loam and yellowish brown (M) sand, CF, IF. NOP.
7 9	3	SH, SD 0.15m; dark brown (M) sandy loam, CF.
(80)		= 32
(B1)		- ∨1
(82)		= V1
(83)		= V1
84	2//4Bii	?= N14. Layer: MF in greenish orange loam. NOP.
85	3/ 4A i	Pit, SD 0.10m; yellowish brown (M) sandy loam. IF, MF.
(86)		= 14
87. 1	3//4Aii	Laver: If in dark yellowish hrown (M) sandy loam. NOP.
97. 2	3//4Ai i	Layer: mixed brown (M) clay loam and yellowish brown (M) wand, CF, MF. NOP.
88	1/2	# (192). PH. SD 0.60m; yellowish brown (M) sandy clay loam, MF. IF: packing (192) of dark yellowish brown (M) loamy sand, IF. LF.
87	prob 2	Laywr; dark brown (M) loamy sand, CF, MF. NDP.

		Finds: ts.
90	1/2	= (151; N142). PH, SD 0.70m; yellowish
	_, _,	brown (M) sandy clay loam, MF, CF; packing
		(151) of yellowish brown (M) lgamy sand,
		IF, LF.
71	prob 3	PH, SD 0.07m; dark ymllowish brown (M)
	poss 4	claywy sand, CF, MF, IF.
92	p rob 3	= (130). Tranch? 80 0,15m; brown (M) sandy
	poss 4	loam, IF.
(93)		= 14
94	prob 3	PH, SD 0.14m; brown (M) sandy loam, IF.
(95)	poss 4	= 50
(96)		= 41
97	prob 3	Pit/PH, SD 0.15m; mixed brown (M) clay
••	poss 4	loam, sand, MF, CF.
98	2	= (N133). Layer; vellowish brown (M) clayey
		sand, MF, IF. NOP.
የ ኖ	3	SH, SD 0.25m; dark vellowish brown (M)
		sandy loam, CF.
100	3	SH, SD 0.28m; dark yellowish brown (M)
		sandy loam, CF.
101	3	SH, SD 0.15m; dark yellowish brown (M)
105	••	sandy loam, CF.
102	3	SH, SD 0.13m; dark yellowish brown (M) sandy loam, CF.
103	3	SH. SD 0.15m; dark yellowish brown (M)
100	•	sandy loam, CF.
104	prob 3	PH, SD 0.20m; dark yellowish brown (M)
•	poss 4	sandy loam, CF, MF, IF.
105	3	SH, SD 0.15m; dark yellowish brown (M)
		sandy loam, CF, IF.
106	3	SH, SD 0.11m; dark yellowish brown (M)
	_	sandy loam, CF.
107	3	PH/SH(s), SD 0.15m; dark yellowish brown
400	3	(M) sandy loam, CF, MF.
108	3	SH, SD 0.09m; dark brown (M) sandy loam with patches of yellowish brown (M) sandy
		loam, CF.
109	4A	= (110). Rubble; limestone blocks (109) set
	•••	in brown (M) sandy loam, mortar/plaster
		frags.
(110)		= 1 0 9
111	4A1	Layer; strong brown (M) sand, MF, NDP.
112	2	= (143). Layer; gravel set in strong brown
		(M) mand.
(113)	-	# + #
114	3	PH, SD 0.20m; yellowish brown (M) sandy loam, CF, MF, IF.
(115)		n +
116	3	SH, SD 0.15m; dark yellowish brown (M)
	_	sandy loam, CF, IF.
117	3	Layer; yellowish brown (M) sandy loam,
		patches of brown (M) clay loam, CF, MF, IF.
		NOP.
(118)		= +

(119)		= V68
120	3	Layer; dark brown (M) loam, CF, MF. NOP.
121	3/4	Layer: mortar. NOP.
122	3/4	?PH, SD 0.05m; ash, CF, burnt IF, burnt
		clay flecks.
123	3/4	= (146). PH, SD 0.28m; strang brown (M)
		sand, IF, MF. Animal disturbance to upper level.
124	3	Layer; dark brown (M) clay loam, CF, MF, compressed. NDP.
125	3/4	Layer, dark brown (M) sandy loam with
	-	ymllowish brown (M) mandy loam, MF, IF, CF. NOP.
(126)		= ∨87
127	2	= (128). Layer; strong brown (M) sand, IF. NDP.
(128)		= 127
129	2	= (133). Mortar mixer. Central PH (133), SD
		0.60m; dark yællowish brown (M) loamy sand,
		1F. Base layer and backfill of PH7
		yellowish brown (M) sandy clay, IF, LF. Mix
		residues2 brownish yellow (M) sandy
		mortar, pebbles; .3 light yellowish brown
		(M) sandy mortar; .1 very pale brown (M)
		sandy mortar, 1F. Unmixed constituents5
		yellow (M) sand with red (M) and reddish
		yellow (M) mottling: .6 brownish yellow (M)
		sandy .4 white (M) sandy ?lime with patch
		of pale yellow (M) sandy ?lime.
		Construction material8 mixed yellow (M)
		sand and yellowish brown (M) loamy sand,
		wattlework impressions. Paddle marks -
		Phase 1: .17, .18; Phase 2: .9 (=.12), .10
		(=.14), possible paddle marks: .11, .13, .15, .16 (? =.19), .19 (? =.16), .20.
(130)		= 92
131	prob 3	PH, SD 0.30m; dark yellowish brown (M) mlay
	poss 4	loam, CF, MF, IF.
132	1	PH, SD 0.25m; strong brown (M) loamy wand, LF, 1F.
(133)	. .	= 129
134	2/3	Layer; yellowish brown (M) sand, 1F, MF, CF. NOP.
135	2/3	Layer; yellowish brown (M) sand, IF, MF, CF. NOP.
136	prob 3	?PH, SD 0.40m; yellowish brown (M) loamy sand, CF, MF, IF.
(137)		= V87
138	2/3	= (139). Layer; yellow (M) mortar, burnt LF. NOP.
(139)		= 138
140	2	Layer: strong brown (M) loamy sand, LF,
		plaster chunks. NOP.
(141)		= 71
(142)		- V68
(143)		= 112

144	1	PH, SD 0.13m; dark yellowish brown (M) loamy sand, CF, MF. Post-pipe for 210 showing through at a higher level?
145	prob 3	PH, SD 0.12m; brownish yellow (M) sandy loam, MF. IF.
(146)		= 123
147	1/2	= (179). Layer; strong brown (M) loamy sand, MF. NOP.
148	3/4	Layer; yellowish brown loamy sand, IF. NOP.
(149)		≠ •
(150)		* +
(151)		= 90
152	prob 3 po s # 2	?PH, SD 0.03m; .1 strong brown (M) sand; .2 very pale brown (M) mortar.
153	prob 3	?PH, SD 0.08m; brownish yellow (M) sand,
	poss 4	MF, IF, LF.
(154)		= ∨87
(155)		= V87
156	1	= (157: N170). Foundation trench, SD 0.40m; yellowish brown (M) sandy loam, IF.
(157)	_	= 156
158	1	Pit/PH, SD 0.52m; strong brown (M) clayey sand, IF.
159	1/2	= (202). PH, SD 0.70m; yellowish brown (M) loamy mand, MF, IF, CF, LF; packing (202) strong brown (M) mandy clay IF, MF, CF.
160	prob 3	Finds: Cu64. PH, SD 0.06m; dark ymllowish brown (M)
160	poss 1/2	loamy sand, MF, CF.
161	1/2	= (200), PH, SD 0.40m; ymllowish brown (M)
101	2,72	clay loam, MF, CF, IF; packing (200) IF set in dark yellowish brown loamy sand.
(162)		= 50
163	1/2	= (164-5). Layer; strong brown (M) sandy loam, CF. MF. IF. NOP.
(164)		≖ 163
(165)		= 163
(166)		= V87
167	1	?PH, SD 0.25m; dark yellowish brown (M) loamy sand, IF.
(168)		= V87
169	1	= (Y198; N199; ?= Y234). Foundation
		trench, SD 0.75m; .1 strong brown (M) clay
		loam, mandy mottling, MF, CF, IF; .2 as .1;
		.3 brown (M) clay loam, MF, CF, IF; .4
		vellowish brown (M) sandy loam, small IF;
		.5 reddish yellow (M) sandy loam, small IF. Finds: Cu60.
(170)		= +
171	1	7PH, SD 0.20m; yellowish brown (M) clay loam, IF, CF, MF, natural flint.
172	1	PH. SD 0.25m; yellowish brown (M) sandy
		loam, MF, CF, IF, patches of brown clay
173	í	PH. SD 0.40m; yellowish brown sandy loam. CF. MF.

```
174
                      PH; yellowish brown (M) sandy loss, MF, CF,
         prob 1
         pass 2
                      IF.
 175
         prob 1
                      PH. SD 0.80m; ymllowich brown (M) sandy
         poss 2
                      loam. IF.
 176
                      ?PH, SD 0.25m; strong brown (M) sandy clay,
         1
                      ıŗ.
                      ?Pit, SD 0.25m; yellowish brown (h) clay
 177
         1
                      loam, 1F.
                      ?Trench, SD 0.20m; yellowish brown (M)
 178
                      loamy sand, IF.
(179)
                      = 147
 180
                      ?PH, SD 0.20m; yellowish brown (M) loamy
                      sand, IF.
                      = (183). ?Pit/hollow, SD 0.35m; strong
 181
         prob 1
                      brown (M) loumy sand, CF, IF.
(182)
                      - VB7
(183)
                      = 181
                      ?PH, yellowish brown (M) loamy sand, IF.
 184
         1
 185
         1
                      ?Pit/trench, SD 0.16m; strong brown (M)
                      loamy sand, a few MF.
(186)
                      = 37
 187
         1/2

    (194, 205). Layer; strong brown (M)

                      loamy sand, MF. NOP.
 188
         1
                      PH, SD 0.27m; yellowish brown (M) loamy
                      sand, IF.
 189
         1//4
                      Layer; ironstone rubble. NOP.
(190)
                      - V97
 191
         prob 1
                      7PH, SD 0.10m; strong brown (M) sand, small
         poss 2
                      1F.
(192)
                      = 88
 193
                      ?PH, SD 0.07m; yellowish brown (M) sandy
                      loam, 1F, CF, MF.
(194)
                      ≖ 187
(195)
                      VB7
 196
         1
                     PH, SD 0.32m: .1 strong brown (M) loamy
                      wand, a few MF: .2 streng brown (M) sand,
                      IF.
 197
                      ?PH/Pit, SD 0.40m; .1 strong brown (M)
         1
                     loamy sand, IF: .2 as .1 but many IF.
198
                      ?PH, SD 0.10m; strong brown (M) loamy sand.
 199
                      ?PH, SD 0.15m; strong brown (M) loamy sand,
         1
                      IF-
(200)
                      = 161
201
                      ?PH, SD 0.05m; strong brown (M) loamy sand.
         prob 1
                     = 159
(202)
                     ≖ V87
(203)
                      = V87
(204)
                     = 187
(205)
206
        prob 1
                     ?PH, SD 0.36m; strong brown (M) sandy clay,
        poss 2
207
                     ?PH, SD 0.10m; brown (M) loamy wand.
208
                     PH, 8D O. 15m; strong brown (M) sandy clay,
                     IF.
209
         1
                     PH, 8D 0.20m; strong brown (M) loamy sand,
                     IF.
```

210	1	PH, SD 0.15m; brown (M) loamy sand, 17 . 144
244		may be post-pipe of 210.
211	i	?PH, SD 0.15m; ,1 dark yellowish brown (M) loamy mand, IF; .2 strong brown (M) loamy
		sand, if,
212	1	?PH, SD 0.15m; strong brown (M) loamy sand,
2.2	4	IF.
213	1	?PH: dark yellowish brown (M) loamy sand,
2.5	•	MF, CF, 1F.
214	1	PH, SD 0.15m; strong brown (M) loamy sand:
(215)	•	= +
216	1	?PH. SD 0.17m; strong brown (M) sandy clay.
-14	•	CF, MF.
217	1	= (226). ?Trench/gully, SD 0.25m; strony
	-	brown (M) sand, IF.
218	1	PH, SD 0.35m; yellowish brown (M) clay
	-	loam, IF, LF, CF, MF.
(219)		= 44
220	1	?Trench/gully, SD 0.16m; strong brown (M)
		sand, IF. Probably animal disturbance.
221	3	PH; brown (M) loam, CF, MF.
222	1	= (223). PH, SD 0.25m; strong brown (M)
		loamy sand, IF, MF; packing (223) as above
		with more IF.
(223)		= 222
(224)		≖ +
225	prob 1	?PH/trench, SD 0.25m; strong brown (M)
	poss 2	loamy sand, IF.
(225)		= 217
(227)		= +
226	1	?Gully, SD 0.20m; strong brown (M) sand.
2 29	1	PH, 8D 0.07m; strong brown (M) loamy sand,
_		IF.
230	1	?Gully, SD 0.05m; yellowish brown (M)
4074		loamy sand.
(231)		= V87
(232)		= VB7
233	1	?Gully, SD 0.10m; strong brown (M) sand.
234	1	?PH, 8D 0.10m; strong brown (M) loamy sand,
075		IF.
23 5	1	?PH, SD 0.25m; strong brown (M) loamy sand,
10741		1F.
(236)		≖ V87
(237)		= 3 = +
(238) 239	arch 1	?PH, SD 0.07m; strong brown (M) sandy loam.
237	prob 1	· · · · · · · · · · · · · · · · · · ·
	poss 2	MF, CF, 1F.

TRENCH X

LAYER	PHASE	DESCRIPTION
+		Finds: AF15.
1	4Aì	Layer; dark grey loam, subsidence into pit. 2. NOP.
2	4Ai	Pit, not bottomed; yellowish brown clay loam, IF, CF.
(3)		a Vi
(4)		= V1
(5)		= Vī
(6)		= Vi
(7)		₩ V1
(8)		= Vi
(9)		≖ Vi
10	prob 3	= (AA149). Pit, SD 0.70m, not bottomed; brown lowm, lenses of charcoal and burnt sand, patches of light grey clay, IF.
(11)		= W14
12	prob 1	?Trench, SD 0.35m; yellowish brown (M)
13	poss 2/3	sand, MF, some pebbles. Animal disturbance?
	3/4	Layer/disturbance; .1 strong brown (M) sandy clay; .2 brown (M) clay loam, IF, CF. NOP.
14	prob 3	?Trench, SD 0.15m; strong brown (M) sand,
	poss 2	IF, MF.
15	4A1	Pit, SD 0.40m: brown (M) clay loam, If, CF.
16	3	Layer; yellowish brown (M) clay loam, CF, MF, IF, LF. NOP.
17	prob 3	?Pit/PH, SD 0.10m; Yellowish brown (M) clay
	poss 2	loam, sand patches, burnt IF, MF, CF.
18	prob 1 poss 2/3	PH, SD 0.20m; strong brown (M) sandy loam.
19	prob 1 poss 2/3	PH, SD 0.15m; strong brown (M) sandy loam.
20	prob 1	PH, SD 0.15m; yellowish brown (M) sandy
	poss 2/3	loam, IF.
21	prob 3	Pit/PH, SD 0.15m; yellowish brown (M) clay
	po ss 2	loam, sand patches, burnt IF, IF, MF, CF.
22	prob 1	?PH. SD 0.10m; strong brown (M) sand, IF.
	poss 2/3	MF, CF.
23	prob 1	?PH, SD 0.05m; wtrong brown (M) sand, IF.
	0088 2/3	MF.
24	prob 3	PH, SD 0.17m; yellowish brown (M) sandy
3 =	pass 2	clay loam.
25	prob 3 poss 2	# (40). ?Pit/PH, SD 0.05m - 0.20m; strong
	poss z	brown (M) sandy clay loam, irregular feature on edge of pit 35, some animal disturbance.
26	2	= (29). Layer; reddish yellow (M) sandy loam, MF, LF, IF. NOP.
(27)		= V87
28	1	Pit/trench, SD 0.25m; reddish yellow (例) loamy sand, If.
(29)		¥ 26

(30)		= 487
(31)		= VB7
32	2	Foundation trench; base for column/post? SD 0.12m; ironstone blocks set in strong brown (M) sandy loam.
33	prob 1 poss 2	= (34). PH, SD 0.35m; post-pipe (34) - strong brown (M) sandy loam, MF, IF, patches of light grey (M) clay; packing - strong brown (M) sandy loam, MF. IF.
(34)		= 33
35	prob 1	Pit, SD 0.28m; strong brown (M) clay loam,
	poss 2	CF, MF, IF.
36	prob 1 prss 2	?PH, SD 0.05m; reddish yellow (M) sand, MF, lF.
37	prob 1 poss 2	?PH, SD 0.10m; redddish yellow (M) sand, MF. IF.
38	prob 1 pose 2	PH, SD 0.07m; strong brown (M) sandy loam, MF. IF. CF.
39	prob 1 poss 2	PH, SD 0.57m; strong brown (M) clay loam, Mr.
(40)	.	= 25
41	prob 1	PH, SD 0.20m; reddish yellow (M) sand, MF.

TRENCH Y

io Berga

LAYER	PHASE	DESCRIPTION
+		Finde: Nu6, 7, 13; Cu7, 15, 19, 20, 24, 25,
1	401	46, 47, 54, 59, 68-71, 91, 93; fm; SW1. Foundation; ironatone blocks set in
2	4B1 1	grayish brown loam in foundation trench. = (4). Pit, SD 0.70m; stone lining of
		ironstone blocks (4); .1 yellowish brown (M) sandy loam; .2 IF set in greyish brown (M) silty clay; .3 greyish brown (M) silty clay, IF. Finds: Q7; GL; CP.
3	4A11	= (76). Wall; ironstone and limestone blocks, line of stones (76) set against SW of wall where it is subsiding.
(4)		● ∡
5	4 B 1 1	Layer; brick and tile floor. NOP.
6	4B1 1	= (12). Wall; ironstone and limestone blocks with brick relieving arch where wall crosses pit 10.
7	481 i	Layer; greyish brown (M) loam, MF, CF. NOP. Finds: MB39.
8	4A11	= (33). Stone-lined pit, SD 0.90m, not bottomed; greyish brown (M) wilty clay with
9	4 B1 1	pinkish gray (M) silty clay and pinkish gray (M) ash, limestone and ironstone blocks, CF, IF; lining (33) - ironstone with some limestone; construction tranch - stone rubble in dark grayish brown (M) sandy loam. Finds: Cul2: AF3, 4: RT8, 9. = (13, 16, 21, 23). Stone-lined pit, BD O.18m; .1 loose dark grayish brown loam, bricks, concrete; .2 dark grayish brown clay loam, IF; lining (13) - subdivided into N wall (16) - ironstone, set in yellowish brown (M) clay loam -, E wall (21) - ironstone set in yellowish brown (M) clay loam -, E wall (21) - ironstone set in promish prown (M) clay loam -, 8 wall (23) - ironstone, few pieces of limestone set in brownish yellow (M) sand -, W wall - part of wall 17.
10	4A11/B1	Finds: Fe2; CP. = (28, 36). Stone-lined pit, SD 0.75m; greyish brown (M) silty clay, lumps of brown (M) clay, CF; lining (28) - chiefly limestone slabe, average size c. 0.30m x 0.15m x 0.05m; construction trench (36) -
11	4A11	dark greyish brown (M) sandy loam. Finds: Fe69; AF7, 8. = (29). Stone-lined pit, SD 0.23m; .1 yellowish brown (M) sandy loam; .2 greyish brown (M) silty clay; .3 very dark grey (M) silt loam; .4 grey (M) clay; lining (29) -

(12)		ironstone and limestone blocks. Probably overdug into underlying pit 32. = 6
(13) 14	4Aii/Bi	= 9 = (15, 22, 37). Construction = Phase 4Aii; final infill = Phase 4Bi. Stone-lined pit, SD 0.50m; .1 (14) soft grayish brown loam;
		.2 (15.1) dark yellowish brown (M) clay loam: .3 (15.2) very dark gray (M) clay loam ash, CF: .4 (15.3) dark yellowish brown (M) clay loam. CF. clay lenses: .5
		(15.4) dark yellowish brown (M) and brown (M) clay loam, IF: .6 (22, 37) lining -
		ironstone and limestone blocks set in soft dark brown (M) loam, IF, CF, and clay flecks.
(15) (16)		Finds: Fe69; H12. = 14 = 9
17	3/4	= (18, 19, 25, 38, 74, 64). Construction (17.1); final destruction (17.2). Wall; ironstone blocks set in strong brown (M)
		sand, reddish yellow (M) mand, yellowish brown (M) mandy clay loam, light yellowish brown (M) loamy mand; includes step (25)
		and foundations (84); set down into pit 102 where the wall crosses it.
(18) (19)		Finds: Cull. = 17 = 17
20 (21)	3	Pit. SD Q.50m; strong brown (M) sandy loam, yellow mortar flecks, CF.
(22) (23)		- 14 - 9
24 (23)	491 i	Shallow pit/PH, SD 0.13m; strong brown (M) sand. = 17
24	481 i	? Shallow pit/PH, SD 0.07; dark yellowish brown (M) sandy loam, MF. NOP.
27 (28)	3	Fit. 8D 0.30m; strong brown (M) mandy loam. Finds: WB2. → 10
(29)		= 1t
30	4A11/B1	Layer: yellowish brown (M) clay loam. NOP.
31	4611	Trench, SD 1.80m, not bottomed: .1 olive brown (M) loam, IF; .2 very dark grayish brown (M) clay loam, CF, ash; .3 dark olive gray (M) clay loam; .4 olive gray (M) clay loam; .5 olive gray (M) clay loam, MF, CF. Finds: Fe56; fs; AF5, 6; R5, 6; RT7; GL10; WB38.
32	4A1.1 /B1	Pit, BD 0.64m; .1 dark brown (M) clay loam, CF, IF; .2 moft dark grayish brown (M) ashy loam, CF, burnt IF; .3 dark brown (M), dark grayish brown (M) and yellowish brown (M)

		clay loam, IF, CF; .4 dark brown (M) loam,
		CF, IF; .5 dark brown (M) loam, CF, IF; .6
		dark grayish brown (M) and dark brown (M)
		losm, CF; .7 dark brown (M) losm, CF, IF;
		.8 yellewish brown (H) and dark brown (H)
		loam and sand, CF, IF.
		Finds: Cu26, 72; Pb14; Fe12, 20.
(33)		∞ 8
(34)		= W26
35	4Ai	Pit. SD 1.00m, not bottomed; brown (M)
	7114	losmy clay.
(36)		* 10
(37)		+ 14
(38)		= 17
39	3	= (52, 120, 125, 128). Pit, \$D 0.85, not
A.11	_	bottomed; capping (39, 120) - limestone and
		ironstone set in strong brown sendy loams
		subsidence (125) dark yellowish brown (M)
		sandy loam IF, CF; .1 (52) dark brown (M)
		and dark yellowish brown (M) clay loam CF.
		cut by 14 ?stakeholes (52.114); .2
		(128.3) dark brown (M) clay loam, 1F, CF,
		LFs .3 (128.2) dark brown (M) loam, CF, IFs
		.4 (128.6) dark brown (M) clay Icam, CF; .5
		(128.5) strong brown (M) sendy clay loam,
		IF: .6 (128.7) dark brown (M) clay loam,
		CF: .7 (128.8) strong brown (M) loamy mand.
		IF: .8 (128.9) dark brown (M) and dark
		grayish brown (M) clay loam, CF, IF; .9
		(128.10) yellowish brown (M) loamy sand;
		.10 (128.11) dark brown (M) and dark
		yellowish brown (M) clay loam; .11 (128.13)
		yellowish brown (M) loamy sand, IF.
		Finds: WB13, 14, 46-48, 82, 90.
(40)		= W26
(41)		+ ₩26
(42)		- M26
43	3	PM. SD 0.27: light plive brown (M) sandy
	•	loam, strong brown send mottling, IF, CF.
	_	
44	3	Slot? 80 0.15m; IF set in yellowish brown
		sendy clay loom.
45	4 8 1	Pit, SD 0.60m, not buttcamd; .1 dark
		yellowish brown (M) luam: .2 compacted IF:
		.3 dark greyish brown (M) clay loam. Cf.
		Finder Cu75: Pb7.
46	4Ai	Layer; dark brown (M) sandy loam, CF. NOP.
47	4Ai	Layer; thin compacted white ash lenses
		interspersed with lenses of clay loam.
		Occupation/floor level, MOP.
48	461	Layer: dark brown (M) and dark grayish
70	7771	
		brown (M) clay loam, many CF. Occupation
		level. NOP.
49	4A1	Layer: very pale brown (M) and white (M)
		ash. Occupation/floor level. NOP.
50	4Ai	Layer: dark brown (M) and dark greyish
	VF-18	brown (M) clay loam, CF. Occupation level.
		ALTONI 111. ETEN TRIBUN PL. MCERNETIEN TRANS

		hunda.
51	441	NOP. Layer: dark brown (M) loam, CF. NOP.
(52)		= 37
53	441	= (87). Robber trench, 8D 0.35m; .i yellowish brown (M) sand, LF, IF, some burnt, some pubbles; .2 dark brown (M) clay loam, CF, IF, clay and sand patches; .3 dark yellowish (rown (M) loamy sand, CF,
5 .,	3/461	IF. Layer: dark brown (M) sand loam. NOP.
55	3	= (59, 141, 148, 173, 175). Layer: olive brown (M) sandy loam, IF, CF, LF. NOP. Finds: Cu45, 94; Pb2, 11; Fe74; Cr; GL2; WB4, 15, 42, 49, 78, 79, 85, 102.
56	4A 1	Layer; dark brown (M) and dark yellowish brown (M) sandy loam, CF, MF, LF. Occupation level. NOP.
57	401	Wall; ironstone and limestone blocks set in dark yellowish brown (M) clay loam.
56	prob 3	= (122, 157, 144-7, 149). Pit, SD 0.50m; olive brown (M) sandy loam, IF, CF. Finds: Pb12.
(57)		- 55
40	481	Layer; dark brown (M) and dark yellowish brown (M) clay loam, CF, MF, IF. NOP.
(61)		
62	441	= (43, 69, 80, 88, 98, 127). Robber trench, BD 0.70m; i light yellowish brown (H) sandy loam, IF; .2 yellowish brown (H) clay loam, IF. Finds: Cu27; Fe43, 44, 91, 92, 123; fs.
(63)		• 62
(64)	•	# 4
45	4	Layer; white and gray ash. Figor/occupation level. NOP.
66 67	4A1	Layer: CF. NOP. Layer: dusky red (M) and derk red (M) burnt
w.r	7111	send, CF. Fluor level/occupation level.
40	461	# (101). Foundation tranch; ironstone blocks set in yellow and gray clay; set down deeper into pit /3, where wall would have crossed.
(69)		- 62
(70)		m V87
71	4A1	Layer; dark yellowish brown (M) sandy loam, with clay lenses, IF, CF, MF. NOP.
72	4Ai	= (77). Wall; small ironatone blocks set in yellowish brown loam.
73	481	Pit, SD 0.40m, not bottomed; yellowish brown (M) sendy loam, 1F.
(74)		# 17
75	4A1	Layer; dark yellowish brown (M) clay isam, IF, CF. NOP.
(76)		= 3
(77)		a 72

78	4Ai	Layer: dark yellowish brown (M) sandy loam, IF, CF, MF. Occupation level. NOP.
79	4A1	Layer: brown (M) sandy loam, CF. Occupation layer. NOP.
(BO)		= 62
81	4	Layer; mixed yellowish brown (M) sand and dark yellowish brown (M) sandy loam, IF, CF. NOP.
82	4A1	= (Z65). Pit/PH, SD 0.10m; dark brown (M) clay loam, CF.
83	3	* (121, 139, 140). Pit, SD 0.33m; disturbed brown (M) clay loam, with lens of yellowish brown (M) sandy loam. Excavated outline suggests originally two pits (139, 140).
(84)		= 17
85	prob 3	PH, SD 0.22m; dark yellowish brown (M)
	pose 4Ai	· loam, CF. NOP.
86	4A1	Layer; dark yellowish brown (H) sandy loam, CF, IF. NOP.
(87)		= 53
(88)		= 42
69	3/4A1	, Pit, SD 0.43m; light olive brown (H) clay loam.
90	3/4A1	= (137). Pit. SD 1.20m; not bottomed; .1 olive brown (M) sandy loam; .2 If. Finds; FS.
71	48	Layer: dark brown (M) sandy loam, CF, IF, MF. NOP.
92	4A1	Lavers dark yellowish brown (M) sandy loam, CF, IF, hard packed, NOP.
93	3/4A1	Layer; dark yellowish brown (M) sandy loam, CF, IF, hard packed. NOP.
94	3/4A1	Layers charcoal and burnt sand. NOP.
95	3/4A1	Layer; charcoal, ash, burnt sand. NOP.
9 6	3	Layer; yellowish brown (H) sandy loam, CF. NOP.
97	3/4Ai	Layer; dark ymllowish brown (M) mandy loam. CF, IF, LF. NOP.
(字母)		- 62
77	40 1	= (117). Pit, SD 0.45, dark brown (M) sandy loam, 1F, LF, CF. Finds: WB103.
100	4 A1	= (104). Robber trench, SD 0.35m; yellowish brown (M) clay loam.
(101)		- 49
102	3	Pit, SD 0.35; .1 If set in strong brown (M) sand; .2 CF; .3 yellowish red (M) sandy loam; .4 CF; .5 dark yellowish brown (M)
		sandy loam. In W site section. Finds: Q4.
103	3/4A1	Inhumation, SD 0.15m; yellowish brown (M) sandy loam.
		Finder fs.
(104)		- 100
105	461	Layer; dark greyish brown loam, CF. NDP. Finds: Fe71. 75.

		
106	4Ai	Layer/foundation; ironstone blocks set in
403	AA 2	dark yellowish brown (M) clay loam.
107	4Ai	Wail, ironstone blocks.
108	prob 3	?PH, SD 0.06m; light yellowish brown (M)
109	2055 4 441	sandy loam.
107	441	Robber trench, 8D 0.13m; dark yellowish
		brown (M) Wilt loam, IF; three well laid pieces of limestone part of foundation
		trench?
110	481 / /Bi	Layer: yellowish brown (M) loam. NOP.
111	4Ai	Pit, SD 0.80m, not bottomed; yellowish
	761	brown (M) sandy loam.
112	3/461	Layer: dark grayish brown (M) loam, patches
***	37 4HI	of yellowish brown (M) sandy loam, MF, CF,
		IF. NOP.
113	441	Foundations/pit capping; rounded ironstone
110	7774	blocks. NOP.
114	461	Layer: dark yellowish brown (M) clay loam.
		NOP.
115	4A1	= (117). Pit/PH, SD 0.53m; plive brown
	.,,,	sandy loam, ashy lenses.
116	3	= (142, 171, 172). Layer; cobbled surface,
	•	natural filmts and publics, IF, LF, set in
		dark yellowish brown (M) and light olive
		brown (M) wandy loam.
		Finds: NB16.
(117)		= 115
118	3//4Ai1	= (143), Layer; yellowish brown (M) sandy
		loam. NOP.
		Finds: fl.
(119)		= 99
(120)		- 39
(121)		= 83
(122)		7 59
123	prob 3	ጉማዚ SD 0.10m; light office brown (M) mandy
	poss 4	loas.
124	4A1	# (126). Pit, SD 0.30m; brown (M) sandy
		losa, CF.
(125)		- 39
(126)		• 124
(127)		= 62
(128)		- 37
1 27	4A1	Pit, SD 0.80m; olive brown (M) sandy loam.
130	3	* (136, 143). Pit, SD 1.00m; greenish brown
		loam. If.
		Finds: ts: 8L4.
131	3/4A1	Inhumation, SD 0.25m; dark brown (M) loam,
	• • •	CF.
132	4A1	Pit. SD 1.50m, not bottomed; dark yellowish
		brown (M) clay loam, patches of light
		brownish gray (N) clay and light yellowish
		brown (M) sandy loam, CF, LF, IF and
	44.	rubble.
133	461	Shallow pit, BD 0.06m; brownish yellow (M)
		sand, IF.
		Finds: Pb13.

134	3/ 4A i	Inhumation, SD 0.10m; dark yellowish brown (M) loam.
135	3	Pit, SD 0.12m; olive brown (M) sandy lnam, CF, ash, grey clay.
		Finds: Cu58; Pb10; Cr; WB3.
(136)		= 130
(137)		= 9 0
138	3/4A1	Inhumation, SD 0.40m; dark brown (M) loam, CF.
(139)		cr. ≈ 83
(140)		= 83
(141)		- 55
(142)		= 116
(143)		= 119
144	3/4Ai	Inhumation, child; yellowish brown (M) sandy loam.
145	3/4Ai	Inhumation, SD 0.15m; dark brown (M) sandy
		loam, CF.
146	3/4AL	Inhumation, SD 0.15m; dark brown (M) sandy loam, with patches of brown (M) sand, CF.
		Finds: NB4.
147	3/ 4 A1	Inhumation, SD 0.25m; dark yellowish brown (ff) loam, CF, IF.
(148)		= 55
149	3/ 4Ai	Grave, SD 0.15m; dark yellowish brown (M) loam, CF. IF.
150	3/4Ai	(151). Inhumation, SD 0.20m; yellowish brown
		(M) sandy loam.
(151)		* 150
152	3/4Ai	Inhumation, SD 0.30; dark brown (M) loam, if.
153	3/4Ai	Inhumation, SD 0.10m.
154	3/4Ai	Inhumation.
t 55	3/4Ai	Inhumation, SD 0.10m; dark yellowish brown (M) loam. IF.
156	3/4Ai	Inhumation, SD 0.20m; dark yellowish brown (M) loam, CF, IF.
(157)		≈ 56
158	3	= (165, 194, 196). Probable SFB, SD 0.55m;
		.1 reddish yellow (M) sandy loam, IF: .2
		olive brown (M) clay loam, LF; .3 dark
		græyish brown (M) clay lowm, CF, burnt; .4
		possible PH at N end, fill as .3.
		Finds: WB50.
159	3	Layer; reddish yellow (M) sandy loam, MF,
		clay mottling. NOP.
160	3	Layer; white fine sand. NOP.
161	3	Layer; olive brown (M) sandy loam, reddish mottling. NOP.
162	3	Layer; light olive brown (M) clay loam. strong brown wand mottling. NOP.
(163)		= 130
(164)		■ W26
(165)		= 159
(166)		- 150 - 58
(167)		= 58
		

168	3/ 4A 1	Inhumation, SD 0.15m; yellowish brown (M) sandy loam.
(169)		= 58
170	40 1	7PH, SD 0.10m; dark brown (M) 10am, CF, IF.
(171)		= 116
(172)		= 116
(173)		- 55
174	3	Layer; metalled surface; IF, LF, set in brown () sandy loam.
(175)		· 55_
(174)		= V97
177	prob 1 poss 2	= (195). Pit/PH, 8% Q.35m; .1 strong brown (M) loamy sand, IF; .2 IF set in strong brown (M) loamy sand.
178	prob 1	Pit/PH SD 0.22m; .1 strong brown (M) loamy
1,0	pose 2	sand; .2 strong brown (M) loamy sand; .3 If set in strong brown (M) loamy sand.
179	prob 1	Trench, 80 0.35m; brown (M) sandy loam, If.
.,,	poss 2	yellow sand.
(180)	,	= V97
181	prob 1	PH. 80 G. 10m; strong brown (M) sandy silt
	poss 2	loum. IF. CF.
192	prob 1	Trunch, SD 0.25m; strong brown (M) loamy
-	POSS 2	sand, IF.
183	prob 1	?PH, SD 0.35m; yellowish brown (M) sandy
	poss 2	loem.
184	prob 1	7994, SD 0.35m; olive brown (M) sandy loam,
·	poss 2	if.
(185)	-	= V87
(186)		- ∨87
187		# +
188	1	PH. SD 0.20m; .1 post-pipe, brownish yellow (M) sand; .2 packing strong brown (M) loamy sand.
(187)		= V0 7
190	1	7PH, SD 0.11m; strong brown (M) loamy sand, IF.
191	1	Tranch/hollow, 8D 0.15m; strong brown (M) loamy sand.
172	1	7PH, SD 0.12m; strong brown (M) lowmy sand.
173	1	7PH, SD 0.12m; strong brown (M) Icamy sand.
(194)		= 150
(175)		= 177
(176)		= 158
177	prob 3	?81ot, SD 0.25m; yellowish brown (M) loamy
	poss 4	sand.
(194)		= W167
(199)		= VB 7
200	prob <u>l</u>	PH, BD 0.23m; .I dark yellowish brown (M)
	poss 2	sandy loam, IF, CF: .2 reddish yellow (M) sandy loam, IF.
201	prob 1	4 (202). ?Trench, SD O.11m; dark yellowish
	poss 2	brown (M) mandy loam, IF, CF.
(202)		* 201
203	prob 1	PH, SD 0.20m; dark yellowish brown (M)
	poss 2	sandy loam, If.

204	1	?PH, SD 0.20m; dark yellowish brown (M)
		sandy silt loam, 1F, CF.
205	prob <u>1</u>	?PM, SD 0.20m; strong brown (M) loamy sand,
	poss 2	XF.
206	prob 1	?PH, SD 0.10m; strong brown (M) loamy sand,
	poss 2	IF.
207	prob 1	= (213). PH, SD 0.13m; brown (M) clay loam,
	poss 2	IF (packing) at side.
208	prob 1	= (214). PH, SD 0.31mt strong brown (M) and
	poss 2	dark yellowish brown (M) sandy loam and
	,	lowny sand, IF.
209	prob 1	PH, SD 0.20m; brown (M) loamy sand, IF, CF,
	poss 2	MF.
210	•	?PH. SD 0.05m; dark yellowish brown (M)
210	prob 1	· · · · · · · · · · · · · · · · · · ·
.=	poss 2	clay loam, CF.
(211)		= V87
212	prob 1	?Pit, SD 0.10m; yellowish brown (M) silty
	poss 2	send, IF.
(2/3)		± 207
(214)		= 208
213	pr ob 1	?Pit, SD 0.15m; dark ymllowish brown (M)
	ppss 2	sandy loam, IF.
216	1	PH. SD 0.05m; brown (M) clay loam, IF, CF.
217	i	Trench. SD 0.10m; yellowish brown (M) sandy
2.47	•	loam, 1F.
218	1	?PH, BD 0.15m; brown (M) loamy sand.
	_	
219	prob <u>i</u>	?SH, SD 0.07m; greenish brown, loamy sand.
	poss 2	4 mm a
220	1	= (230) ?Trench, SD 0.15m; reddish yellow (M) loamy sand.
(221)		= +
222	1	PH, SD 0.23m; .1 strong brown (M) sandy
222	L	loam, 1F: .2 strong brown (M) sandy loam,
		1F.
223	1	?PH. BD 0.20m; strong brown (M) loamy sand,
		CF, NF, IF.
224	1	?PH, SD 0.11m; strong brown (M) mandy loam,
		IF, CF.
225	1	PH, SD 0.10m; brown (M) wandy loam, Cf, If.
226	1	PH. SD C.10m; strong brown (M) sand.
227	1	?PH, SD 0.12m: yellowish brown (M) sandy
		loam, IF, CF.
228	1	?PH, SD 0.12m; dark yellowish !an (M)
	-	sandy loam, IF, CF.
229	1	PH, SD 0.10m; yellowish brown (M) sandy
227	•	
45301		lgam, 1F, LF.
(230)		= 220
231	1	PH, 8D 0.25m; dark yellowish brown (M)
		sendy loam, IF. CF.
232	1	7PH, 9D 0.10m; strong brown (M) sandy loam,
		IF.
233	i	PH, SD 0.05m; strong brown (M) clay loam,
		red mottling, IF.
234	1	7# W169. Trench, SD 0.55m; reddish yellow
		(M) sand, red iron-rich mottling.
235	1	PH. BD 0.13m; strong brown (M) sandy loam,
		· · · · · · · · · · · · · · · · · · ·

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		CF, IF.
236	1	PH/Trench, SD 0.11m; strong brown (M) sand, IF.
237	prob 1 poss 2	PH, SD 0.15m; yellowish brown (M) sand, IF.
238	1	PH, SD 0.12m; strong brown (M) loamy sand, IF.
239	prob 1 poss 2	PH, SD 0.60m; yellowish brown (M) clay loam, IF.
(240)	bhaa r	= 237
241	prob 1	= (243,247). Pit, SD 0.35m; strong brown
	poss 2	(M) - reddish yellow (M) sand, CF, IF, red and green mottling.
(242)		= V87
(243)		= 241
244	prob 1	= (248). ?Pit, SD 0.38m; .1 strong brown
	poss 2	(M) sand, IF; .2 yellowish brown (M) sand.
245	1	SH, SD 0.20m; dark brown (M) sandy loam, IF.
246	1	?Trench, SD 0.10m; strong brown (M) loamy sand, IF, CF.
(247)		= 241
(248)		= 244
249	prob i	PH/Pit, SD 0.40m; atrong brown (M) sandy
084	poss 2	loam, IF.
250	1	PH, SD 0.22m; strong brown (M) sand, IF.
251	1	= (252). Pit, SD 0.30m; .1 (252) yellowish brown (M) loamy sand, IF, MF; .2 (251) strong brown (M) sand, IF.
(252)		= 251
25 3	1	?Pit/PH, SD 0.17m; yellowish brown (M) sand, IF, lenses of yellow/sh red (M) sand.
(254)		= V87
255	1	Pit/PH, SD 0.12m; strong brown (M) loamy sand, IF, CF.
256	1	Pit, SD 0.21m; strong brown (M) loamy sand, IF, CF.
257	1	PH, SD 0.13m; brownish yellow (M) sand.
258	1	PH, SD 0.29m; brownish yellow (M) sand.
25 7	1	PH, BD 0.40m; yellowish brown (M) sand, JF.
260	1	7PH, SD 0.12m; brownish yellow (M) sand.
261	1	?Treach, SD 0.25m; brownish yellow (M) sand.
262	1	PH, SD 0.28m; yellowish brown (M) sand, IF, natural flint gravel. Animal disturbance?
26 3	1	PH, SD 0.10m; yellowish brown (M) sand.
264	1	PH, SD 0.14m; yellowish brown (M) sand, IF.
265	1	?PH, SD 0.25m; yellowish brown (M) sand, IF. Animal disturbance?
2 66	3/4A1	Grave (?), SD 0.30m; yellowish brown (M) sandy loam.
267	3/4Ai	Grave, SD 0.15m; recognised in W site section.
(268)		= 153
269	3/ 4Ai	Grave, SD 0.10m; yellowish brown (M) sandy loam; recognised in W site section.

270	1	PH, SD 0.28m; yellowish brown (M) sand, IF, flint gravel.
271	1	PH/trench, 9D 0.21m; strong brown (M) sand.
272	prob 1 poss 2	PH, SD 0.25m; brown sandy (M) loam.
273	3/4Ai	Grave, SD 0.15m; yellowish brown (M) sandy loam, seen in W site section.
274	3/4Ai	Grave, SD 0.15m; yellowish brown (M) sandy loam, seen in W site section.
275	3/4A1	Brave, SD 0.15m; yellowish brown (M) sandy loam, seen in W site section.

TRENCH Z

LAYER	PHASE	DESCRIPTION
i	49i i	Finds: CP. Drain trench, SD 0.36m; limmstone flagged cover and base, brick sides.
2	4Bi i	Finds: Cu18. Pit, 9D 0.10m; sides lined with bricks and ironstone, floor of limestone flags; fill of ash and burnt organic debris. Finds: GL.
(3) (4)		* Vi * Vi
5	4	21 22 (54,58). Wall; ironstone blocks set in matrix of pale brown (M) sandy clay, CF; blocks dressed on W face only; E cellar wall and robbed residue of N wall.
6	4	Wall; ironstone blocks set in a matrix of yellowish brown (M) sand; dressed faces with rubble core. S cellar wall.
7	4	= (13). Wall; ironstone blocks set in a matrix of light yellowish brown (M) sandy mortar. Part of W cellar wall.
8	4	= (24). Wall; small ironstone blocks, many burnt, set in a matrix of brown (M) clay loam, IF, CF.
(9)		= V1
10	4Bi i	Trench, for modern water pipe.
(11)		= V1
12	4 Bi i	= (42-4, 46, 49-51). Layet (e), fills of cellar, not fully excavated; .1 (12, 42) brown (M) clay loam, IF, CF, MF, clay patches; .2 (43-4, 49) light yellowish brown (M) sandy clay, CF, IF, MF; .3 (46, 50) strong brown (M) sandy loam, MF, CF, IF; .4 (51) very dark greyish brown (M) loam, CF, IF. NOP.
		Finder Cu89; Fe111, 112; CP.
(13)		= 7
(14) (15)		= V1 = +
(16)		# +
17	3/4	Pit, SD 0.40m, not bottomed, .1 yellowish brown (M) sandy loam, IF, CF; .2 strong brown (M) sand, MF.
(18)		= 1 5
19	prob 3	PH, SD 0.25m; brown (M) clay loam, CF,
	poss 4	IF.
20	314	Layer; IF in mixed brown (M) clay loam, CF, with patches of strong brown (M) sand. Hard core surface or cap over pits 56, 57 and SFB 260. NOP.
21.1	4A1 1	= (21.25, 41, 55.12). Layer(s); subsidence into and capping of pits 21.3 and 55; .1 very dark grey (M) ash with patch of grey (M) clay; .2 (55.1) ironstone

		hlocks set in brown clay loam; .3 (21.5) dark greyish brown (M) clay loam, IF, CF; .4 (21.4) ironstone fragments; .5 (21.2, 55.2) reddish yellow (M) sand and ironstone fragments. NOP.
(21.2) 21.3	4Ai	= 21.1 Pit, SD 0.70m, not bottomed; dark yellowish brown (M) clay loam, CF.
(21.4) (21.5)		= 21.1 = 21.1
22	3/4	Pit, SD 0.25m; .1 brown (M) clay loam, CF, IF, MF, brick fragments; .2 dark græyish brown (M) clay loam, CF, IF, MF.
23	3/4	Pit? SD 0.05m; brown (M) clay loam, CF, IF.
(24) 25	3	= 8 = (26). Pit, SD 0.30m; dark yellowish brown (M) clay loam, IF, CF. Finds: Fet.
(26)	- • -	= 25
27	4Ai	
28	4	Construction tranch? SD 0.10m; .1 pale brown (M) sand, CF, IF; .2 dark yellowish brown (M) sand, CF, IF, MF; .3 pale brown
29	48i i	(M) sand, CF. Pit, SD O.BOm; brown (M) clay loam, IF, CF, MF, clay patches. Finds: CP.
30 31	3	PH, SD 0.40m, not bottomed, yellowish brown (M) clay loam, CF, IF.
32	3	
33	3/4	# (47). Pit, SD 0.50m; .1 strong brown (M) sand, IF; .2 mixed ash and burnt sand; .3 pinkish grey (M) clay; .4 brown (M) sandy loam with blue grey clay patches; .6 (47) small IF.
34	3	Pit, SD 0.20m; dark yellowish brown (M) sandy loam, IF, CF, MF.
(35) 36	3/4	= 32 Pit? SD O.llm: yellowish brown (M) clay Loam, CF, MF, IF, patch of reddish brown (M) clay.
(37)		= 4
(38) 39	4A1	= 4 Pit, SD 0.14m; .1 olive brown (M) clay Toam, IF, CF, ash; .2 strong brown (M) Bend; .3 brown (M) clay loam, CF, TF.
40	3	= (62). Pit, SD 0.30m; olive brown (M) clay loam, CF, ash, IF.
(41) (42)		= 21.1 = 12

```
(43)
                     = 12
(44)
                     = 12
(45)
                     × 27
                     = 12
(46)
                     = 33
(47)
                     Layer; reddish yellow (M) sand. Floor of
 48
                     cellar. NOF.
(49)
                     = 12
(5<u>0</u>)
                     = 12
                       12
(51)
                     ==
(52)
                       32
(53)
                     ...
(54)
                       5
(55.1)
                     = 21.1
(55.2)
                     = 21.1
 55.3
        4ALI.
                     Pit, SD 1.00m; partially stone lined with
  -. 6
                     ironstone blocks (.5); .3 dark brown (M)
                     clay loam, CF, IF; .4 dark greyish brown
                     (M) clay loam, IF, CF, ash; .7 plive brown
                     (M) silty loam, CF; .8 yellowish brown (M)
                     silt loam, CF, clay flecks; .6 light olive
                     brown (M) silty clay, IF, CF.
                     Finds: Fe7; GL8.
 56
        3/4
                     Pit, SD 0.45m; yellowish brown (M) clay
                     loam, IF, CF.
57
        3/4
                     Pit. SD 0.35m; dark greyish brown (M) clay
                     loam, CF, IF, MF.
(58)
59
                     Construction trench? yellowish brown (M)
                     sandy loam, IF, MF, CF. Not excavated. NOP.
                     SFB, SD 0.30m; brown (M) fine sandy loam.
60
                     CF, IF. Not fully excavated.
                     Finds: Nul; fs; ts; Q1; WB75.
61
                     Layer, 50 0.20m; brown (M) clay loam, CF,
                     If; subsidence into PH 69. NOP.
(62)
                     = 40
63
        1
                     SFB, SD 0.15m; dark brown (M) fine clay
                     loam with sand, CF, 1F.
        3/4Ai
                     Pit, SD 0.28m; plive brown (M) clay loam,
6.4
                     CF, IF, strong brown (M) sand patches.
(55)
                     - Y82
                     Pit, SD 0.30m; olive brown (M) silt loam,
        3/4A1
66
                     CF, IF.
67
        3/4Ai
                     Pit, SD 0.25m; yellowish brown (M) silt
                     loam, IF, light blue and grey clay flecks.
68
        prob 3
                     PH, SD 0.45m; brown (M) fine mandy loam,
        poss 4Ai
                     CF, IF. Limestone packing.
69
                     PH, SD 0.30m; strong brown sand, IF.
70
        prob 3
                     PH, SD 0.40m; yellowish brown (M) sandy
                     silt loam CF, TF, limestone packing.
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TRENCH AA

LAYER	PHASE	DESCRIPTION
+		Finde: Nu5, 8, 10; Cui, 9, 14, 16, 21, 43, 57, 98; Fe32, 35, 114, 117; Cr; FL; FS; te;
		AF16; RT15; H7-9, 13-15; WS6; WB2, 40, 45,
		71, 73, 74, 77, 84, 101.
(1)		- +
(2) (3)		= + = +
(4)		= + = +
5	4Bi	Pit, SD 1.13m; ironstone rubble and grey
_		clay loam fill; wtone lined.
		Finds: AF9, 10.
(6)	_	
7	3	Pit, SD 1.22m, not bottomed; .1 dark brown
		(M) clay loam, CF, IF; .2 crushed ironstone and rubble; .3 clive brown (M) silt loam.
		CF, IF: .4 dark grayish brown (M) silt
		loam, CF, IF.
		Finds: ts; WB83.
8	4Aii/4Bi	Pit, SD 0.61m, not bettomed; brown (M)
		sandy loam, CF, MF, IF, some limestone blocks.
9	3	Pit, SD 1.00m, not bottomed; .1 dark brown
-	•	(M) silt loam, IF, CF, with a band of light
		grey (M) mandy clay; .2 dark brown (M) milt
		loam, IF, CF.
10	4Ai	Finds: Fa38; F8.
10	4H1	Pit, 9D 0.75m; dark brown (M) loome clmy loam, CF, MF; "1 stonm lining; "2 dark
		yellowish brown (M) sandy loam, CF, MF,
		patches of very pale brown (M) sand and
		clay, IF and rubble.
		Finds: Fe45, 47.
11	4Ai	Pit, 9D 0.55m; dark brown (M) clay loam, CF, IF; .1 very dark grayish brown (M) ash;
		.2 dark brown (M) clay loam, CF, IF; .3
		brown (M) sandy loam, IF.
		Finder WB21.
12	4A1	Pit, 8D 0.9im, not bottomed; yellowish
		brown (M) friable mandy loam; .1 stone lining: .2 very dark greyish brown (M) lens
		of ash.
13	4Ai	= (33). Pit, SD 0.45m; brown (M) clay
-		loam, CF, IF, MF.
		Finds: fs.
14	4A1	= (15). Oven, SD O.83m; firing chamber:
		(14.1) dark yellowish brown (M) clay loam, CF. IF, MF; (14.2) ash and burnt limestone
		fragments - residual lining of base; stoke
		chambers (15) brown (M) clay loam, CF, ash
		patches.
44=		Finds: Fe21.
(15)		- 14

16	3	Pit, SD 0.56m; dark brown (M) silt loam, IF, CF, MF.
17	3	Pit, SD 0.166, not bottomed; dark brown (M) silty clay loam, CF, IF.
(18)		= +
19	4Ai	Pit, SD 0.43%; dark brown (M) clay loam, CF, IF, MF.
20	4Ai	Pit, SD 0.95m, not bottomed; brown (M) clay loam, CF, MF.
21	3/4Ai	Pit, SD 0.11m; brown (M) clay loam, CF, IF.
(22)		= +
(23)		* +
(24)		= +
25	prob 3	Pit, SD 0.90m, not bottowed; .1 angular ironstone blocks; .2 dark brown (M) clay loam, CF, IF; .3 yellowish brown (M) light silt loam/cess, MF, CF, IF. Finds: Cul00; FeBi; Cr.
26	4Ai	Pit, SD 0.22m; two stone lined cess pit bases.
27	3?	Pit, SD 0.09m; brown (M) clay loam, CF, IF.
28	3	Pit, SD 0.60m; dark brown (M) milty clay
29	3	= (31~2). Pit, SD 0.40m; mixed fill, mainly brown (M) silt loam, with grey (M) clay, sand patches, LF, MF, CF. Finds: WB5. 94.
30	2	Pit, SD 0.70m; dark brown (M) silt Loam, CF, IF, MF.
(31)		= 29
(32)		= 29
(33)		= 13
34	3/4Ai	Pit, BD 0.50m; dark yellowish brown (M) clay loam, CF, IF and rubble, partial ironstone lining to east edge.
35	4Ai i	Pit, SD 0.65m; dark greyish brown (M) clay loam, MF, CF, IF, clay patches and ash lenses, mixed limestone and ironstone lining, inclined sides.
(36)		= +
(37)		= +
(38)		= +
(39)		= +
(40)		= +
(41)		= +
(42)		= +
(\$3)		= +
(44)		m +
(45)		-
(46)		= +
47	4Ai	Pits, SD 1.80m; probably two pits; a)14 and t)5121 very dark greyish brown (M) clay loam, CF, IF; .2 very dark greyish brown (M) clay loam, IF,

CF, sand patches, ash lenses: .3 dark greyish brown (M) silt loam, 1F, CF and ash, MF, sand patches: .4 ash lenses, very dark red (M) - red (M): .5 very dark
grayish brown (#) silty clay loam, CF, LF;
.6 mixed dark brown (M) - dark yellowish
brown (M) clay loam, 1F, CF; .8 mixed dark
brown (M) - dark yellowish brown (M) clay
loam, IF, CF; .9 lens of CF; .10 mixed
yeilowish brown (M) - brownish yellow (M)
sand with mortar: .11 mixed dark yellowish
brown (M) - yellowish brown (M) loam and
sandy clay loam, MF, CF, LF; .12 dark
yellowish brown (M) sandy clay loam, IF.
LF.
_, -
C1-3 C-EA

Finds: Fe50. (4日) = (82). Pit, SD 1.10m, not bottomed; brown 47 4Ai (M) clay loam, IF and rubble, CF, sand patches, ash. Finds: Fe24; H1. (50) 51 4Ai Pit, 50 0.90m, not bottomed; brown (M) clay loam, CF, 1F, MF; .i crushed ironstone rubble: .2 transtone lining. (52)= + (53) = + 54 4A Pit, SD 0.37m; dark brown (M) clay loam, CF, MF, 1F, some iron panning. Finds: Fe28, 29, 66, 67. Pit, 29 0.45m; dark brown (M) clay loam, 55 4A11 CF, MF, 1F, ash lenses. Finds: Fe26. Robber trench; general number for (56) 3 robber of Phase 2 buildings; some later finds under this number, perhaps from later slumping into the trench. For robber proper see 123. NOP. 57 4A Pit, SD 1.20m, not bottomed; brown (M) very light, friable clay loam, 16, CF, MF. Finds: Cu97; Fe31, 110; fs; GL6; WB36, 37, 70. 58 3 Pit, SD 0.72m; dark brown (M) clay loam, patches of brown (M) sand, CF, MF, IF; .1 dark greyish brown (M) silt loam, IF, CF, MF. Finds: Fe3. Pit, SD 0.55m; dark yellowish brown (M) 59 4Aii mandy clay loam, 1F and rubble, CF. 60 4Aii Pit, SD 0.51m; .1 dark brown (M) silty inam, CF and ash; .2 dark brown (M) sandy loam, CF, 1F. Pit, SD 0.65m; brown (M) clay loam, CF, 61 4Ai

= (66.2, 363). Pit, SD 0.90m; dark

yellowigh brown (M) clay loam, CF, 1F, MF,

1F, MF. NOP.

62

4A i 1

		ash lens at sides, ironstone lining (62.1) and (66.2, 363) mottled, mainly gray (M)
		clay base.
		Finds: Fe25, 27, 57, 59, 103, 104, 119, 130; fl.
43	3/4Ai	Pit, SD 0.28m; brown (M) clay loam.
64	3	Pit/PH?, SD i.i5m; .1 dark yellowish
		brown (M) silt loam, CF, IF; .2 dark
		yellowish brown (M) clay loam, IF and
		rubble, CF, MF3 dark yellowish brown (M) silt loam, 1F, CF.
(65)	AA.	# + # ### ### ### ### ### ### ###
66. i	4Ai	= (66.3, 372). Pit, SD 1.00m; brown (M)
		clay loam, CF, 1F, MF, clay flacks; .1 ironstone lining; .3 yellowish brown (M)
		silty clay loam, CF, MF. IF and ironstone
		blocks, probably part of lining set in pit
		66.4.
		Finds: RT1, 3, 4,
(66.2)		+ 42
(66.3)		= 66.1
66.4	4Ai	= (374). Pit. SD 0.45m, not pottomed; dark
		ymllowish brown (M) clay loam, CF, IF, ash
		patches.
		Finds: Fe18; H2.
(67)		= + ≤ +
(68) (69)		- ·
70	3	Pit, SD 1.50m, not bottomed; brown (M)
, ,,	J	silty clay loam, CF, MF, IF.
		Finds: Fe83; FL; NB6, 17-19, 41, 51-54.
71	4Ai	Pit, SD 0.95m, not bottomed; .1 olive brown
		(M) soft silty clay loam, CF, IF; .2 brown
		(M) moft mand, loam, CF, IF; .3 plive brown
		(M) hard silty clay loam, CF, IF and
		rubble: .4 olive (M) fire wilt loss, CF,
		IF; .5 olive grey loose silty clay loam,
		IF: .6 olive brown (M) firm silt loam, CF,
		IF, mand patches, light grey (M) ash lenges.
		Finds: WB7-9.
72	4Ai	≈ (91). Pit, SD 0.95m, not bottomed; .1
-		brown (M) firm sandy silt loam, CF, MF, IF;
		-2 dark yellowish brown (M) firm sandy silt
		loam, CF, MF, IF; .3 raddish brown (M) firm
		silt loam, CF, MF, IF.: .4 olive gray (M)
		firm milty clay loam.
-1-	4611	Finds: fs.
73	4Ai i	Pit, SD 0.40mm dark grayish brow.: (M) clay loam, MF, CF, IF and rubble.
		Finds: Cu5, 13; Fe22; H6, 11.
74	3	= (75). Pit, SD 0.40m; dark brown (M)
• •		wilt loam, CF, IF, with imms of sand and
		mortar at base and against sides.
		Finds: W991.
(75)		= 74

,d

(74)		■ +
77	3	Pit, SD 1.02m, not bottomed; brown (M) clay
		loam, HF, CF, IF.
	_	Finds: Fe82, 120.
78	3	Pit, 8D 1.40m; dark brown (M) clay loam,
		IF, ash, morter and wand lenses, some
		animal disturbance,
79	4Ai	Pit, SD 0.80m; dark brown (N) clay loam,
		IF, CF; .1 dark grayish brown (M) clay
		loam, CF, IF, MF, LF. Finds: Fe49, 122; fe; GL3; WBG7.
79.2	₹	Pit, SD 1.00m, not bottomed; dark yellowish
7744	•	brown (M) sandy clay loam, CF, IF, sand and
		ash lenses.
		Finds: Cu99; ts.
80	3/4A1	* (146). PH, BD 0.36m; brown (M) sand
	O. 1002	with one limestone fragment; possibly
		animal disturbance.
81	prob 4Aii	Pit, 8D 0.45m; dark grayish brown (M) clay
	•	loam, CF, IF, ash lenses.
(82)		• 49
83	4Ai	Pit, SD 0.48m; .1 dark yellowish brown
		(M) clay loam, CF, MF, 1F; .2 dark
		yellowish brown (M) clay loam, as .1 with
		more IF; .3 dark yellowish brown (M) loam,
		IF, CF, MF.
		Finds: Fe51.
94	4A1	Pit, BD 0.35m; dark brown (M) clay loam.
		CF, IF, MF, mand patches.
65		Finds: MB66.
63	prob 4Ai	Pit, 9D 0.20m; dark yellowish brown (M) sandy clay loam. IF, C. MF.
86	3	= (133). Pit, 8D C.40m; brown (M) milty
	•	clay loam, CF, HF, IF.
87	3/4A1	Gully, 80 0.20m; dark yallowish brown (M)
•	O1/.1	clay loam, CF, MF, IF.
88	prob 2	= (160). Floor; mixed mottled grey
	•	(M) and brown (M) clay with dark brown (M)
		loam, MF, IF, CF, LF.
89	4Ai	 (90). Dyan, SD 0.25m; firing chamber
		(90): dark yellowich brown (M) mandy milt
		loam, CF, IF and rubble, disturbed stone
		lining, some ask and traces of burning on
		base; stoke hole (89): .1 dark reddish
		brown (M) ashy loam, CF; .2 dark ymllowish
		brown (M) silt loam, MF, IF; .3 dark brown
		(M) loam, If and gravel, CF, MF, some
		patches of sandy clay loam. Finds: FeliB: fs: tw.
(90)		= 89
(91)		= 72
(92)		+
93	4Ai	* (226). Bully, SD 0.15m; brown (M) clay
		loam, IF, CF.
		Finds 8L1.

94	4Ai	Pit, BD 0.75m; .1 olive (M) silty clay loam CF; .2 olive grey (M) silty clay loam, MF, CF; .3 olive brown (M) silty clay loam, MF; .4 yellowish brown (M) sand; .5 mixed sand, grey ash, MF, CF; .6 olive (M) silty clay loam, CF. Finds: Fe48; W823, 88.
95	4Ai i	Pit, SD 0.33m; very dark grey (H) silty loam, ash lenses, IF, stone lining. Finds: Cu28-32, 73-77; FeB, 9, 60, 61, 105; WB93.
96	3/4Ai	Pit, SD 0.80m; very dark greyish brown (M) milt loam, CF, IF.
-9 7	4A i	Pit, SD 0.70m, not bottomed; .1 dark brown (M) sandy loam, CF, IF; .2 very dark greyish brown (M) sandy loam, CF; .3 dark brown (M) sandy loam, IF; .4 dark greyish brown (M) soft ashy loam, CF; .6 very dark greyish brown (M) sandy loam, CF; .7 dark yellowish brown (M) clay loam, IF, CF; .8 dark yellowish brown (M) loam, IF, CF; .9 dark yellowish brown (M) sandy clay loam, ironstone rubble; .10 dark brown (M) clay loam, IF, CF. 97.5 possibly = 10i. Finds: Cu33; Fe6, 94, 12i, 126; W867, 92.
9 8	4Aii	Pit, SD 0.95m, not bottomed; .1 loose ironstone rubble set in brown (M) clay loam, CF; .2 brown (M) clay loam, IF, CF; .3 soft ashy loam, CF, IF. Finds: Cu34; Fe19, 37, 106; SL7, 9.
99	40 1	Pit, SD 1.05m, not bottomed; dark yellowish brown (M) loam, MF, IF, CF, lenses of sand and IF. Finds: Fe17, 95.
100	4Ai	Pit, 9D 0.35m; dark yellowish brown (M) loam, CF, IF, LF.
101	4Ai	Pit, 3D 0.60m, not bottomed; .1 dark yellowish brown (H) sandy loam, CF, IF, HF; .2 dark yellowish brown (H) clay loam, IF and gravel; .3 dark yellowish brown (H) sandy loam, CF, MF, IF and some
102	3/4	blocks. 10i possibly = 97.5. Pit, SD 0.35m; .i mixed yellowish brown (M) sandy silt loam, 1F, MF, CF; .2 ash and
103	3	CF. Pit, SD 0.60m; .i dark brown (M) silty clay loam, CF, MF, IF; .2 and .3 lenses cf loose charcoal and crushed mortar.
104	2?	= (199). PH, SD 0.33m; dark yellowish brown (M) sand with strong brown (M) mottling, CF, MF, IF, flint pebbles, limestone packing.
105	2?	= (198, 600). PH, SD 0.30m; strong brown (H) - dark yellowish brown (H) sand MF, CF, IF, large limestone block as packing.

		Partially overlaid by 168; probably Phase
		2.
106	2/3	Layer; crushed ironstone over ash. NOP. Finds: FS.
107	4Ai	Pit, SD 0.37m; dark brown (M) clay loam, MF. CF, IF.
108	4A1	Pit, SD 0.45m; dark brown (M) clay loam, IF, CF, MF, patches of sand, burnt sand and ash. Finds: WB72.
109	27	Layer: IF and flint peobles. NOP.
(110)	-:	= +
(111)		* +
112	2?	Layer: IF and flint pubbles. NOP.
(113)		= +
114	3	Pit, SD 0.30m; dark brown (M) silty clay loam.
(115)		= +
(116)		- +
117	4A1	Pit, SD 1.10m, not buttomed; brown (M) clay luam, ironstone lining. Finds: Fm52, 95; WB104.
(118)		# +
(117)		# +
(120)		■ +
(121)		™ + ₩ +
(122) 123	3	= (124-6, 129-32, 1 3 5, 148, 364-7, 382-7,
		534, 587-90). Robber trench1 (124-5, 130-2, 135), SD 0.57m; inclined layers and lenses, yellowish brown (M) - dark yellowish brown (M) sandy loam - loam, NF, CF, IF, LF, occasionally with light olive (M) - cream and grey clay flecks; strong brown (M) - yellowish brown (M) - dark yellowish brown (M) sand - sandy loam, MF, CF, IF, LF; strong brown (M) sand - sandy loam, MF, CF, LF, IF and gravel; various layers forming the uppermost fill of the robber trench may be later deposite subsided into robber: - dark yellowish brown (M) - dark brown (M) loam - sandy loam, MF, CF, LF, IF and gravel2 (364-7) SD 0.19m; mainly horizontal layers; dark yellowish brown - light plive brown (M) fine sandy loam, MF, CF, IF, LF; strong brown (M) - brown (M) sand, MF, CF, IF, strong brown (M) - brown (M) - yellowish brown (M) sand, MF, CF, IF, .3 (534, 587, 589) SD 0.34m; inclined layers and lenses except for horizontal layering in northernmost 2m of E robber trench section. Predominantly mixed yellowish brown (M) sand and dark plive brown (M) - dark greyish brown (M) silt loam, verying quantities of IF, LF, CF, MF;

also lenses/layers of dark greyish brown (M) silt loam and silty clay loam, MF, GF, LF, IF; light olive brown (M) sandy clay loam - mandy milt loam, varying amounts of CF and MF, IF, LF; olive (M) - olive brown (M) wilt loam - clay loam, CF, MF, few IF; yellowish brown (M) sand, CF, MF, numerous 1F.

.4 (588) horizontal layers of dark greyish brown (M) clay loam - olive brown (M) sandy milt loam, varying amounts of MF (but more common between 143.00 and 147.00/179.00 and 181.00, CF, IF; yellowish brown (M) sand with some dark greyish brown (M) clay loam, MF, CF, IF, LF; yellowish brown sand, IF, LF, CF, MF; loose clive brown (4) silty clay loam, CF, MF, IF. It is possible that 123.4 includes animal disturbance.

.5 (590) SD 0.30m; plive brown (M) silt loam, MF, CF, IF, LF; yellowish brown (M) sand, MF, CF, 1F, LF.

.6 (384) 8D 0.43m; yellowish brown (M) loamy mand, MF and lumps, CF, IF, LF; strong brown (M) sand, CF, MF, 1F; brown (M) sandy loam, CF, IF, LF.

.7 (382-3, 385) SD 0.32m; brown (M) fine mendy loam, CF, MF, IF; mixed dark brown (M) wandy loam and morter; strong brown (M) wend, IF.

.8 (384-7) SD 0.42m; yellowish brown (M) mandy clay loam with patches of strong brown (M) sand, MF, CF, IF, LF; yellowish brown (M) sandy loam, MF, CF, IF; brownish yellow (M) sandy loam, CF, MF, IF. .9 (126, ?Robber trench/disturbance, SD 0.16m; brown (M) clay loam with patches of strong brown (M) sand and mortar, IF and

LF. .10 (129) BD 0.32m; dark yellowish brown (M) mandy loam, MF, CF, IF, LF. Finds: CuSO; Fa4, 16, 34, 84, 86, 88; FL; FS; TS; WB3; GL5; WB20, 65.

= 123.1

123.1

= 123.9

= (142-3, 404-7, 422, 901, 1113). Wall foundations for main Phase 2 hall.

.1 (143) mixed blocks of limestone and Northampton Sands neatly set in a matrix of strong brown (M) - dark yellowish brown (M) sand and small IF. Six courses surviving. .2 (142) as .2. Six courses surviving 0.55m

.3 (142, 407) scatter of isolated limestone blocks along bottom of N wall trench. .4 (1113) wall fragment of limestone and

(124)

(125)

(126)

ironstone blocks set in yellowish brown (M) sandy loam.

.5 (901.7-.9) wall fragments of limestone and ironstone blocks set in strong brown (M) sand. Mainly scattered blocks one course deep but two courses in limited area in NE corner.

.6 (901.3-.7) wall fragments of limestone blocks set in matrix of strong brown (M) sand. Three courses surviving at 143.50/180.00.

.7 (901.2) single disturbed course of limestone blocks, some ironstone rubble, set in a matrix of strong brown (M) sand. .8 (901.1) up to three courses of limestone blocks with some ironstone rubble set in matrix of strong brown (M) sand.

.9 (406) single limestone block, possibly part of wall.

.10 (405) four courses of limestone blocks with a faw IF and other stones set in a matrix of yellowish brown (M) - strong brown (M) sand.

.11 (404) six courses of limestone blocks with a few IF and other stones set in a matrix of yellowish brown — strong brown (M) sand, some small IF.

.12 (127, 422) seven courses of limestone blocks with a few IF and other stones set in a matrix of strong brown (M) sand (foundation survived 0.60m deep). A layer of very pale brown (M) sorter with patches of strong brown (M) sand and brown (M) clay loam spread over the northern part of the top of the wall and the ground surface to the N and probably relates to the superstructure of the wall.

Finder 02, 3.

	(A LICE ME)
(128)	m +
(129)	= 123.10
(130)	= 123.1
(131)	= 123.1
(132)	= 123.1
(133)	= 86

Pit, SD 0.55m; mottled mandy loam, mainly dark yellowish brown (M), IF and gravel, MF, CF, and lenses of yellowish brown (M) mandy loam.

Finds: WB10-12, 22, 24-34, 96.

(135) 136 3

4Ai

134

= 123.1 = (137). SFB, SD 0.35m; .1 (137.1, 3) brown (M) mand, IF and rubble; .2 (137.2) dark yellowish brown (M) mandy loam, IF, MF, CF; .3 (137.4) brown (M) mand, IF and rubble; .4 (136) yellowish brown (M) mandy loam, CF, MF, LF, IF. Associated PMs 140,

(137) 138	prob 4Aii	141, 144 and 145. Findm: Cu42; Fe5, 13, 36, 85, 87. = 136 Pit, SD 0.25m; .1 strong brown (M) sandy clay loam, MF, limestone blocks; .2 brown (M) sandy loam, CF; .3 brown (M) sandy loam, MF, IF, CF; .4 brown (M) sandy loam,
139	3?	CF. Pit, SD 0.62m, not bottomed; brown (M) clay loam, CF, 1F.
140	3	PH, SD 0.48m; packing: .1 mottled strong brown (M) - dark yellowish brown (M) sandy loam, MF, CF, LF and IF; post pipe: .2 dark yellowish brown (M) sandy loam, CF, LF, MF.
141	3	Associated with BFB 136. PH, SD 0.21m; packing: .1 dark yellowish brown (M) sandy loam, CF, LF, IF, MF; postpipe: .2 strong brown (M) sandy loam IF, MF, CF. Associated with SFB 136.
(142)		= 127.2, 3
(143)		= 127.1
144	3	?PH, SD 0.35m; yellowish brown (M) sandy loam, CF, MF, LF, IF. Associated with SFB 136.
145	3	PH, SD 0.47m; dark yellowish brown (M) sandy loam 1F, LF. Associated with SFB 136.
(146)		= 80
(147)		m +
148	3	Layer; yellowish brown (M) - strong brown (M) sand with some brownish yellow (M) patches, MF, CF. NDP.
149	3?	= (X10). Pit, SD 0.23m; .1 dark brown (M) clay loam, CF, burnt IF, grey clay flecks; .2 dark yellowish brown (M) clay loam, CF,
150	3	IF, gray clay flecks. Robber tranch for stone building extension (151.1), SD 0.31m; dark yellowish
151	2	brown (M) sandy loam, MF, CF, IF, LF. = (159). .1 (151) wall fragment, Phase 2 hall
		extension (cf 208); limestone blocks with very occasional IF set in strong brown (M) sand. Very few stones remaining. 2 (159) wall fragment, limestone and ironstone blocks, occasional tile fragments (many stones had mortar adhering to them but were not mortar bonded in this feature) loosely packed with dark yellowish brown (M) friable loam matrix, MF, CF. Remains of apparent mortar capping noted. With 208,
152	3	and VAB forms annexe to main building (127) Pit, SD 1.02m; .1 brown (M) clay loam, IF, %F, CF, reddish yellow (M) mortar, ironstone rubble; .2 very dark greyish brown (M) clay loam, CF, IF; .3 yellowish brown (M) sandy clay loam, CF, MF, IF.

(153)		= +
(154)		* +
155	2	= (164). Pit, SD 0.40m; .1 mixed strong brown (M) and dark yellowish brown (M) sandy loam and clay, IF and gravel, CF, MF, LF; .2 dark yellowish brown (M) clay loam, MF, CF, IF, .3 dark greyish brown (M) ashy silt loam, CF, MF, LF.
156	prob 3	PH, SD 0.18m; mottled dark yellowish brown (M) - yellowish brown (M) sandy loam, MF, CF, grey - cream clay flecks. (Possible contamination of ABI by this PH)
157	3	?PH, SD 0.18m; dark ywllowish brown (M) sandy loam, MF, LF, CF, IF.
(158)		# +
(157)		≠ 151.2 - 50
(160) 161	2	= 68 = (163, 177-8, 606), Layer, patchy mortar
161	2	spread (max thickness 0.05m); along N and W edges of main stone building trenches and NE wall of commun.
162	3?	Pit, SD 2.00m, not bottomed; .1 dark
		yellowish brown (M) sand, IF, LF; .2
		ironstone rubble with limited dark
		yellowish brown (M) sand matrix; .3 ironstone rubble in loose strong brown (M)
		sand matrix: .4 yellowish brown (M) sandy
		clay loam. MF. CF.
		Finds: AF1.
(163)		= 161
(164)	_	= 155
165	2	* (634). PH, SD c. 0.31m; yellowish
		brown (M) sandy loam and sand, MF, CF, occasional flint pubbles. Visible in the
44.43		top of 167 but probably overlaid by 161 and cut by 123. Apparently contemporary with wall 127.
(166) 167	7	= + = (170-1, 173, 420; ?= 184, 190). Layer:
10,	2	strong brown (M) sand, MF, CF, IF, (184 dark yellowish brown (M) at highest level). 184 and 190 both clearance/cleaning layers but apparently = 167 (see Fig (M)4). Finds: H10.
146	2	= (172, 174, 176, 191, 197, 421,
		610-12). Layer; mainly compact flint peoble spread, some IF and LF in strong brown (M) sand matrix. LF concentrated in three areas, centred on 128.00/201.00, 115.00/199.00 and 117.00/195.00, the latter comprising a
		small spread of IF, overlaid by pubbles, overlaid by LF, and approximately 0.10m
169	prob 3	thick (see Fig (M)3). Wall rubble; limestone blocks, no matrix, some associated morter, probably collapsed
		rubble from Phase 2 well.

```
(170)
                     = 167
                     = 167
 (171)
                     = 168
 (172)
                     = 167
 (173)
 (174)
                     = 168
                     Layer; mottled dark yellowish brown (M)
         2
 175
                     CF, IF, MF. NOP.
 (176)
                     # 168
(177)
                     = 161
 (178)
                     = 161
                     = (186, 223, 225, 230, 435-6, 443, 608,
 179
         2
                     635, 644). Layer; strong brown (M) - dark
                     yellowish brown (M) send, MF, CF, IF
                     (latter more concentrated in areas centred
                     on 129.00/184.00 and 131.00/187.00). May be
                     either 167 or 432 (see Figs (M)2, 3).
 180
         1?
                     PH, SD c. 0.24m; strong brown (M)
                     yellowish brown (M) silty sand, CF, IF.
                     ?PH, SD 0.44m; .1 strong brown (H) sand,
 181
        17
                     CF, IF, LF; .2 loamy sand, otherwise as .1.
                     Probably overlaid by 179 but relationship
                     with 187 not clear.
                     Layer: strong brown (M) luamy sand,
 182
        prob 2
                     MF, LF, IF, CF. NOP. ?= 179.
 183
        2
                     Gully, SD 0.19m; .1 mottled strong brown
                     (M) - dark yellowish brown (M) sandy loam,
                     MF, CF, IF, LF; .2 strong brown (M) sand.
                     Cut by 159 and cuts 187. Possibly an
                     earlier wall line than 159 - note presence
                     of some mortar flecks.
                     Finds: FL: F8.
(184)
                     ?= 167
 185
        prob 2
                     PH, SD 0.31m; strong brown (M) mand,
        poss 3
                     MF, IF, CF.
(186)
                     - 179
 187
        2
                     = (189, 231, 433, 437, 444, 602, 609, 613,
                     620, 622, 626, 643, 645, 649, 651-2, 657,
                     666, 733, 749; ?= 614.1, 4, 7) Layer,
                     moderate - sparse scatter of small - medium
                     IF set in strong brown (M) - brown (M) send
                     (with localised variations - yellowish
                     brown (M), red (M) and meddish yellow (M)).
                    PH?, SD 0.35m; strong brown (M) sand,
 188
        prob 2
                    MF, IF, CF.
        poss 3
(189)
                     - 187
(190)
                     ?= 167
(191)
                     - 168
 192
        prob 3
                    ?PH, SD 0.12m; dark yellowish brown (M)
                    mandy loam, LF.
        poss 4
193
        3/4Ai
                    Pit/PH, SD 0.34m; dark yellowish brown
                     (M) loam, CF, IF.
(194)
                    * +
(195)
176
        3/4A1
                    PH, SD 0.40m; dark yellowish brown (M)
                    loam, CF, IF, MF.
197)
                    # 168
```

(198)		= 105
(1 79) 200	4	= 104 Pit, dark grwy (M) wilt loam, IF, CF, MF; lining: ironstone block: wet in grwy clay. NOP.
(201)		= +
202	4	Pit, dark græyish brown (M) clay loam, MF, OF, IF, brick. NOP.
203	4Ai	Pit, SD 0.30m; brown (M) clay loam, CF, IF, MF. Finds: Fm90, 96, 97, 100; fl; fm; NB68, 69, 99.
204	4A1	Pit, SD 0.75m, not bottomed; dark brown (H) sandy clay loam. Finds: Cu3; Fe76; Cr; fs; H3; WB35, 98, 100.
205		= +
206	3	= (219). Robber trunch, of Phase 2 hall extension (208), SD 0.50m; .1 dark olive (H) silt loam, IF, MF, CF; .2 dark olive (M) silt loam, orange (H) sand patches, MF, CF, IF; .3 orange brown (M) sandy silt loam, light olive patches, MF, IF; .4 light olive brown (M) sand, MF, IF; .5 orange brown (M) sand, MF, IF; .6 dark olive brown (M) silt loam IF, CF, MF; .7 dark olive brown (M) silt loam, IF, MF, CF; .8 as .2. Finds: Cr; fs; WB55-62, 95.
207	4 A ½	Layer; IF/rubble set in sandy loam, CF.
208	2	Wall SD 0.42m; jumbled small ironstone and limestone rubble, matrix of mixed mainly light plive brown (M) silt loam with patches of dark grey (M) silt loam and orange brown sand, CF, MF. With 151 and V&E forms annexe to main Phase 2 building (127).
(209)		= +
210	4Ai	Pit, SD C.29m; dark brown (M) loam, MF, CF, IF.
211	49i	Pit, SD 0.25m, not bottomed; brown (H) clay loam, IF, CF, blue and grey clay flecks. Finds: fs.
(212)		# +
213	4Ai	Pit, SD 0.30m; .1 strong brown (M) sand IF; .2 dark yellowish brown (M) sandy loam, MF, IF, CF, lenses of brown (M) sand.
(214)	_	= +
215	4	Layer; IF, set in brown (M) sandy loam, MF, CF. Probably spread from 208. NOP.
216	4	PH, SD 0.27m; gray milt loam, Mr.
217	37	Pit, SD 0.25m; tip lenses of light olive green milt loam and orange mand, MF, CF, IF.

218	3?	Pit, SD 0.55m; light green (M) - orange (M) sandy milt loam, MF.
(219) 220	prob 1	= 206. PM, SD 0.25m; light olive brown (M) wand,
201		CF, MF, IF. Not normal fill for Phase 1/2 but presumably contaminated from above.
221	prob 3	PM, SD 0.15m; dark olive green (M) silt loam with orange brown (M) sand patches, IF, MF, CF.
222	prob 3	SH? SD 0.07m; dark olive green (M) silt loam, with orange brown (M) sand patches. IF, MF, CF.
(223)		= 179
224	prob 3	PH, SD 0.30m; post pipe: .1 olive brown (M) silt loam with orange brown (M) send
		patches, IF, CF, MF; packing: .2 strong brown (M) clay loam.
(20m)		Finds: WB63, 64. - 179
(225) (226)		= 1/7 = 9 3
227	2	= (229). Shallow gully, SD 0.20m, with
	-	PHs and SH in bottom; .1 top fill - strong
		brown (M) sand, MF, IF.
		.2 PH, 3D 0.40m from top of gully; strong
		brown (M) sand, IF, MF, CF; post pipe (229), mixed drange sand and olive green
		silt loam (not a normal Phase 2 fill).
		.3 PH. SD 0.17m; strong brown (M) send, IF,
		MF, CF, limestone and ironstone blocks.
		.4 SH, strong brown (M) sand, IF, MF.
		.5 PH? SD 0.10m; strong brown (M) sand, CF, IF.
		The quantity of morter in the slot suggests
		it post-dates the main stone building and stratigraphically it predates wall 208.
		Finds: Nu2.
228	3/4A1	PH, SD 0.25m; .1 mixed prange sand, plive
		green (M) silt loam, CF, MF, IF; .2 strong
		brown (M) sand, MF, LF.
(227)		= 227.2 = 179
(230) (231)		= 177 = 187
232	prob 1	PH, SD 0.28m; strong brown (M) sand, dark
233	1	yellowish brown (M) mottling, CF, MF, IF. = (238, 240, 242, 415, 445, 469, 490,
200	•	492-4, 615, 619, 642, 646, 654, 667-8, 670,
		474, 734, 748, 750, 761~5, 770, 907, 931, 935, 947, 982, 1002, 1020-1, 1104, 1107).
		Layer; strong brown (M) mand - mandy loam, MF, CF, IF, NOP.
		Finds: Cu51.
234	1	PH, BD 0.17m; dark yellowish brown (M)
·····		mandy milt loam, CF, MF, IF, burnt IF.
235	1	= (907). ?PH, BD 0.07m; yellowish brown (M)
		mandy loam, CF, MF.

236	prob 1	?PH, SD 0.20m; strong brown (M) sand, MF, CF.
237	prob 1	?PH, SD 0.12m; strong brown (M) sand, MF, CF.
(238)		= 233
239	1	PH, SD 0.15m; .1 dark brown (M) #andy
		loam, MF, CF, IF; .2 yellowish brown (M) sandy loam, MF, CF.
(240)		= 233
241	prob 1	?PH, SD 0.25m; dark yellowish brown (M) silt loam, MF, CF, IF.
(242)		= 233
243	1	?PH, SD 0.10m; strong brown (M) sandy loam, MF, IF.
244	prob 1	?PH, SD 0.12m; strong brown (M) sandy loam, IF.
245	prob 1	PH, SD 0.10m; strong brown (M) sandy losm, IF, CF.
246	prob 1	PH, SD 0.10m; brownish yellow (M) sand.
247	prob 1	?PH, SD 0.07m; reddish yellow (M) loamy sand, IF.
(300)		# +
(301)		#
(302)		= +
(303)		# +
(304)		* +
(305)		= +
306	4A11	Pit, SD 0.55m; dark greyish brown (M)
302	7674 4	clay loam, CF, IF; rough, incomplete
		ironstone lining.
		Finds: Cu22, 78.
307	461	·
307	4647	Pit, SD 0.61m, not bottomed; brown (M)
		clay loam, CF, IF, ash, sand and IF iensas,
		ironstone lining.
7.00	****	Finds: AF2.
30B	4Ai i	= (318). Drying oven, SD 0.75m; oven
		chamber (308): dark greyish brown (M) sandy
		clay loam, IF, CF, MF, inclined mainly
		ironstone lining, base mainly limestone
		flage: stoke chamber (318): dark græyish
		brown (M) clay loam, with vertical lining,
		mainly ironstone.
		Finds: Cu79.
309	4A1	= (316, 352). Gven, BD 0.22m; two phases.
		First phase (352): brown (M) clay loam, MF.
		CF, IF: 15mestone flagging with ironstone
		lining in circular oven area; stoke area
		robbed out. Second phase (309): yellowish
		brown (M) mandy milt loam, lenses of ash,
		burnt sand and grey clay; lining mainly
		ironstone and base mainly limestone. Oven
		set into wall 327.
		Finds: Fe53, 98.
(310)		* +
311	3?	= (915). PH, SD 0.10m: plive brown (M)

		sandy clay loam, CF, MF, IF, LF.
(3)2)	*	-
313	3/4	= (900). Pit, SD 0.38m; olive brown (M) clay loam, IF, CF, MF.
(314)		- +
(315)		- +
(314)		= 309
(317)		■ •
(318)		= 308
319	prob 4Aii	Drain, BD 0.85m, not bottomed; dark brown
317	proo 4HII	(M) silty clay loam, CF, IF; capped with limestone flags.
320	40	Pit(s), SD C.40m, not bottomed: .1 brown (M) mandy loam, MF, CF, IF, probably
		subsidence: .2 dark brown (M) clay loam CF, IF; two pits in outline but only one fill
		discerned. Finds: Fel28.
321	401	Lime kiln, SD 0.90m; brown (M) clay loam,
	-1114	CF, IF, lens of red and black ash on
		lining; ironstone lining of heatly laid blocks.
322	3/4	Pit, BD 0.75m; dark greyish brown (M)
		clay loam, CF, IF, MF, sand patches. NOP.
323	3/4	= (333-4). Pit, 50 1.25m, not bottomed;
		.1 (334.3) brown (M) clay loam, MF, CF, LF,
		IF; .2 (333.3, 334.2) dark græyish brown (M) silt loam; .3 (333.2, 334.1) dark
		greyish brown silt loam, MF, CF: .4 (333.1)
		dark yellowish brown (M) mandy clay loam,
		MF. CF. sand patches.
(324)		- +
(325)		≖ ↑
326	4A	Robber tranch, SD 0.20m; brown (M) clay
. -	•••	loam, predominantly inunstone rubble with occasional limestone pieces. Robs wall 327.
327	40 1	= (347.3, 379-81). Wall, runs N-B;
		ironstone blocks, some well dressed,
		minimal core, occasional limestone. Oven
		309 met into this wall. At 135/185 break in
		wall faced on both sides with ashlar blocks and floored with burnt limestone flags.
		Area to S badly disturbed but to N was a
		shallow depression which may have been
		stone-lined. This is probably the remains
		of some wort of oven. Finds: Fe99.
328	4Aii	Wall, runs E-W: ironstone blocks
		surviving in pit 307 as deeper foundation.
		Construction trench, brown (M) clay loam
		with clay patches. Wall line suggests that
		the wall abuts and forms a right angle with
(329)		wall 327.
(327)		= + = +
		二 个 表 小
(331)		म्बः 'र

33 2	4A1	Wall stubs one course of ironstone blocks, c. 1.2m long, matrix of brown (M) sandy
		clay loam.
(333)		= 323
(334)		- 323
335	4A	Robber trench, SD 0.20m; ironatone rubble
		in brown (M) clay loam, MF, IF, clay patches. Robs wall 327.
336	3/4	Pit, SD 0.60m, not bottomed; dark græyish brown (M) milty clay loam, MF, CF, IF.
(337)		= +
(338)		* +
(339)		• •
(340)		- +
341	4Ai	Pit, SD 0.45m; yellowish brown (M) clay loam, IF, CF.
342	4A17	Pit, SD 0.10m; plive brown (M) milt loam, CF, IF.
343	4Ai	Pit, SD 0.37m; dark yellowish brown (M) clay loam, CF, MF, IF and rubble.
344	4Ai	= (347.12, 361, 368). Various deposits
		of clive brown (M) silty clay loam, brown
		(M) clay loam, clay and rubble to N and E
		of 327 filling area centred on 135/185.
		Finde: Fe54, 99.
345.1	4Ai	m (345.2, .45). Pit, SD 0.7m; dark
		yellowish brown (M) sandy clay loam, MF,
		IF, CF, patches of very pale brown (M)
		clays brownish yellow (M) sandy milt loam,
		lenses of yellowish red (M) ash and
		brownish yellow (hi) mand. Base layer
		possibly debris from wall 127. Note 345.3 = 356.
		Finds: Fel4.
345, 3	40 1	= (356). Pit, SD 0.70m; ironstone lining
		and base, dark yellowish brown (M) sandy
		clay loam, IF, CF, MF, patches of light
		brownish gray (M) clay.
346	4Ai	Pit, SD 0.80m, not bottomed: .1 brown (M)
		sandy clay loam, IF, CF, very dark grayish
		brown (M) milty clay loam, IF, CF, ash; .5
(347.1)		dark brown (M) clay loam, IF, MF.
		= 344 - 707
(347.3)		= 327
(348)		= +
(349) (350)		* + * +
351	37	
	J.	Pit, BD 0.50m; dark brown (M) clay loam, CF, JF, MF.
(352)	464	= 309
353	4A1	PH, SD 0.20m; dark greyish brown (M) clay loam, CF, MF, IF. NOP.
(354)		•
(385)		# 4
(355)		= 345.3
357	prob 4Aii	Pit, SD 0.44m; crushed ironatone set in

		brown (H) sandy loam.
3 58	4 A 1 1	Pit, SD 0.57m; brown (M) clay loam, IF,
		CF, MF, patches of brownish yellow (H)
(359)		mend.
360	prob 4A11	Pit? yellowish brown (M) sandy clay loam,
	F-	CF, MF. IF. Most of this feature
		unexcavated.
(361)		- 344
(362)		= + · · ·
(363)		= 62 = 107 0
(364) (365)		= 123.2 = 123.2
(366)		= 123.2
(367)		- 123.2
(368)		= 344
369	3/4	Pit, SD 0.13m; light plive brown (M) wilt
		loam, IF, LF.
370.1	4A1	= (370.3). Pit, SD 0.65m; brown (H) clay
		loam, IF, MF, CF, LF, patches of light grey
		(M) clay; dark yellowish brown (M) loam, IF, KT. CF.
370.2	4A1	= (387). Pit, SD 0.53m; brown (M) clay
J. 7.2		loam, IF, MF, CF, LF, light grey (M) clay
		patches; black (M) sandy clay ash, MF, IF,
		CF.
371	4A1	Pit, 8D 0.50m, not bottomed; dark grayiwh
/ **		brown (H) sandy clay loam, CF, IF, MF.
(372) 373	4A1	= 66 Pít, SD 0.41m, not bottomed; .1 dark
3/3	7714	brown (H) clay loam, MF, ash lenses, IF and
		rubbles .2 brown (H) sandy clay loam, IF.
		MF, LF.
(374)		= 66.4
375	4A1	Pit, SD 0.62m, not bottomed; .1 dark brown
		(H) clay loam, CF, IF; .2 dark brown (H)
		clay loam, ash patches, IF, CF, MF, LF. Finds: RTS.
376	4A1	Pit/PH, shallow; brown (H) clay loam, CF.
		NOP.
377	4A1	Pit, SD 0.84m, not bottomed; dark
		yellowish brown (M) clay loam, MF, IF, CF.
378	4A1	Pit, SD O.o2m; yellowish brown (H) loam,
(379)		CF, MF, IF.
(383)		= 327 = 327
(381)		= 327
(392)		= 123.7
(3B3)		= 123.7
(384)		- 123.6
(385)		= 123.7
(386)		= 123.8
(387) 388	401	= 123.8
- अस्त	7674	Pit. SD 0.44m; grayish brown (H) sandy loam, Cf, If; ironstone lining with
		occasional limestone pieces.

(389)		370.2
390	4Ai	Pit, SD 0.25m; dark yellowish brown (M)
	_	sandy clay loam, IF, MF, CF, NOP.
391	4Ai	Pit. 8D 0.22m; very dark grayish brown
		(M) mandy clay loam with mand patches.
392	4Ai	Pit, SD 0.22m; .1 very pale brown (M)
		mand and clay with patches of white (M)
		clay, LF: .2 plive brown (M) sandy clay
	- 400 i	loam, CF, IF, MF.
393	3/ 4A i	Pit. SD 0.11m; dark grayish brown (M)
394	4	clay loam.
374	•	Wall: ironstone construction, matrix dark brown (M) sandy clay loam. Extended off
		site to S.
395	401	Pit. SD 0.24m; dark brown (M) sandy loam.
4,4	767.0	IF and rubble, some publics.
376	prob 4Ai	Pit. SD 0.45m; dark brown (M) clay loam.
		CF. MF. IF.
397	4Ai	Pit, SD 0.58m; .1 brown (M) sandy loam,
		CF. MF. If and rubble: .2 dark olive grey
		(M) clay loam, CF, IF: .3 rough ironatone
		block lining, occasional limestone: .4
		construction trench for .3, brown (M) sandy
		icem, CF, MF, IF and rubbie, grey (M) clay
		patches.
378	3/4A1	Pit SD 0.15m; brown (M) clay loam, IF, MF,
		CF. NOP.
399	3/4A1	Pit. SD 0.70m; dark brown (M) sandy clay
		loam, IF. CF, MF.
400	4Ai	Pit. SD 0.56m, not bottomed: brown (M)
401	3/461	clay loam, if, MF, CF. = (402). Hearth, SD 0.19m; burnt
701	37 THE	depression in natural ironstone: .1 red (M)
		burnt sand: .2 dark y#110wish brown (M)
		loam. IF. CF. (NOP Phase 4Ai).
(402)		= 401
403	3	Pit, BD 0.20m; dark greyich brown (M)
		gilt lose, CF, IF.
(404)		= 127.11
(405)		= 127.10
(406)		= 127.9
(407)		= 127.3
408	i	PH. SD 0.18m; yellowish brown (M) loose
		sandy loam, CF, MF.
409	1	PH, SD 0.24m; ,1 strong brown (M) mand.
		surface scatter MF: .2 as .1. no MF.
440	•	occasional IF.
410	1	= (427, 429, 452-4, 953). Foundation
		trench, SD 0.55m; strong brown (M) -
		brownish yellow (M) - yellowish brown (M)
		mand, IF, CF, MF, PH's .1 SD 0.28m; strong
	•	brown (M) sand, CF; .2 SD 0.30m; as .1; .3
		8D 0.33m; as .1; .4 8D 0.35m; strong brown
		(M) wand, If over brown (M) wandy clay loam, CF, MF: .5 SD 0.31m; brown (M) loamy
		sand, CF; .6 SD 0.40m; yellowish brown (M)

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0.55m; reddish yellow (M) - strong brown
                     (M) loamy sand, IF, MF; .10 80 0.60m; as
                     .9; .11 SD 0.26m; as .9; .12 SD 0.21m;
                     reddish yellow (M) - strong brown (M) loose
                     loamy sand, more IF at base: .13 SD 0.34m;
                     reddish yellow (M) - strong brown (M)
                     compact mand, IF, CF, MF; .14 SD 0.32m;
                     strong brown (M) compact loamy sand (with
                     bright orange (M) and yellow (M) sand
                     flacks), CF, MF, IF; .15 8D 0.31m; reddish
                     vellow (M) - strong brown (M) loose loamy
                     wand, CF, MF, IF.
 411
                     PH, SD 0.11mg strong brown (M) friable
                     loamy sand, MF, CF.
 412
                     PH, SD 0.31m; yellowish brown (M) mandy
                     loam, MF, CF, IF, and flint publish.
(413)
                     ?PH, SD 0.06m; strong brown (M) loose sand,
 414
        17
                    MF and patches, CF. IF.
                     = 233
(415)
 416
        17
                     = (478). ?PH, SD, 0.11m; mottled brown (M)
                     sand.
 417
                    PH, SD 0.24m; strong brown (M) sandy loam,
                    CF, MF.
(418)
                    * +
(419)
                    = +
(420)
                    = 167
\{421\}
                    - 168
(422)
                    = 127.12
 423
                    = (424-26, 430, 447-451, 474, 476).
        1
                    Foundation trench, SD 0.40m; strong brown (M) loamy sand, IF and I gravel. PHs; 1 SD
                    0.37m; strong brown (M) losmy sand, 1F,
                    more concentrated at base; .2 SD 0.30m;
                    strong brown (M) sandy loam, IF: .3 SD
                    0.32m; as .2; .4 8D 0.28m; as.2; .5 SD
                    0.28m; as .2; .6 SD 0.30m; as .2; .7 SD
                    0.35m; as .2; .8 SD 0.40m; as .2; .9 depth
                    not recorded (cut by later pit); as .2; .10
                    SD 0.20m; IF in sparse strong brown (M)
                    mandy loam.
(424)
                    = 423
(425)
                    - 423
(426)
                    # 423
(427)
                    - 410
428
        12
                    = (1109). ?PH. SD 0.06; strong brown (M)
                    milty mand. CF.
(429)
                    - 410
(430)
                    423
431
                    Foundation trench, 8D 0.59% strong brown
                    (M) sand, IF, MF. N edge only was clearly
                    defined as most of slot removed by Phase 2
                    wall construction trench.
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- brownith yellow (M) loamy mand, CF, IF; .7 SD 0.50m; as .6 with MF and more IF at base; .8 SD 0.58m; as .6 with MF; .7 SD

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432	2	= (604, 616-15, 623, 625). Layer; strong
		brown (M) - brown (M) wand, If, MF, CF,
		(see Fig (M)2).
(433)		= 187
434	prob 1	PH, SD 0.50; yellowish brown (M) sandy
		loam, MF, IF. Overlaid by 168, cuts 233,
		probably associated with Phase 1, unless
		construction of Phase 2.
(435)		- 179
(436)		= 179
(437)	_	= 187
438	1	Layer: SD 0.33m; yellowish red (M) sandy
		loam, IF (some heavily burnt), CF. Either
		layer across top of 79F8 441 or top fill of
		it.
439	1	Layer; small area of charcoal surrounded
		by hurnt sand and IF. Probably equivalent
	_	of 440, 641, 689, 766.1, and 1101.
440	1	Layer; mainly charcoal, occasional burnt
		IF, overlying patches of white clay.
	_	Probably equivalent of 439, 641, 689, 1101.
441	1	* (442). EFB? IF in strong brown (M) lowmy
		sand over charcoal layer mixed with dark
		yellowish (M) clay loam, 1F, gray clay
		flecks. Cut away on all sides - no posts
		surviving.
/4431		Finds: HAR-5557; ts.
(442)		= 441 - 120
(443) (444)		= 179 = 187
(445)		= 233
446	1	?PH, SD 0.41m; strong brown (M) mandy
770	•	loam, CF, MF, IF.
(447)		= 423
(448)		= 423
(449)		= 423
(450)		= 423
(451)		- 423
(452)		≈ 410
(453)		= 410
(454)		= 410
455	prob t	PH. BD 0.30m; .1 strong brown (M) sandy
	• • • • • •	loam; .2 strong brown (M) sandy loam, IF:
		possibly animal disturbance. Either
		contemporary with 410 which it cuts or
		later: perhaps contemporary.
456	1/2	PH, SD 0.30m; .1 brown (M) sand, much
		morter, IF, CF; .2 strong brown (M) sandy
		loam, If, CF and some LF1, c. 0.28m
		across, may be post pipe but is of yery
		irregular shape.
457	1	7PH, SD 0.10m; brown (M) sandy silt loam,
		CF.
458	1	7PH, 5D 0.07m; strong brown (M) sandy
		loam, CF.
(457)		• +

460	3/4Ai	Pit? brown (M) sandy loam, CF, IF,
461.2	17	limestone blocks. Not excavated. NOP. ?PH, SD 0.08m; yellowish brown (M) sandy
462	17	loam, CF, IF, MF. ?FH, SD 0.18m; strong brown (M) sandy
463	17	loam, CF, IF. ?PH, SD 0.08m; strong brown (M) sandy
464	prob 1	silt loam, CF. Pit, BD 0.50m; strong brown (M) sandy wilt loam, IF, MF, CF, occasional flint
465	1	pebbles. NDP. = (472, 675, 693). Foundation trench: SD 1.19m; strong brown (M) sandy loam - loamy send, IF and 1 gravel, CF, occasional cream clay flecks and flint and ?sandstone pebbles over 1F in sparse strong brown (M) - reddish yellow (M) sandy loam. PHs in foundation trench: .1 SD 0.47m; brown (M) frlable loamy sand, CF; .2, SD 0.54m; as .1 with occasional MF: .3 SD 0.49m; brown (M) sandy silt loam, CF, MF; .4 SD 0.38m; dark yellowish brown (M), IF and I gravel, CF: .5 SD 0.43m; strong brown (M) sandy loam, IF (across base), CF; .6 SD 0.45m; partially void, remaining fill brown (M) sandy silt loam, IF, CF, MF; .7 SD 0.53m; strong brown (M) very loose sandy silt loam, IF, CF, MF; .8 SD 1.05m; void; .9 SD 0.71m; strong brown (M) loose sandy loam, 1 gravel, CF MF; .10 SD 0.91m; strong brown (M) sandy loam, MF, CF, and IF and I gravel; .11 SD 0.90m; as .10; .12 (doubtful) SD 0.24m; loose IF in strong brown (M) sandy silt loam; .14 SD 0.20m; brown (M) sandy silt loam; .14 SD 0.20m; brown (M) sandy silt loam; .15 CF.
466	prob 1	Finds: MAR-3555. Pit, BD 0.45m; brown (M) - dark yellowish brown (M) sandy silt loam, IF, CF, MF, occasional flint pebbles. NOP.
467	17	?PH. SD 0.02m; strong brown (M) sand, CF.
(468)	- 1	= +
(469)		
		* 233
470	1	PH, SD 0.21m; strong brown (M) sandy silt loam, 1F, CF, HF.
(471)		# +
(472)		= 4 65
(473)		# +
(474)		- 423
475	1/2	PH/SH: SD 0.38m: brown (M) mandy loam, CF, MF.
(476)		= 423
477	1	PH, SD 0.09m; strong brown (M) sandy loam, (F, CF, MF.

478	1		PH, SD 0.40m; strong brown (M) sandy loam, IF. LF. CF.
477	1		= (913, 954). Foundation trench, SD 1.08e;
9/7	•		
			fills: strong brown (M) sandy loam, IF and
			gravel, CF, MF; strong brown (M) - reddish
			yellow (M) compact sand IF, CF, HF; light
			brown (M) wand, IF, CF, MF; etrong brown
			(M) loamy sand, IF, MF, CF; reddish yellow
			- strong brown (M) loamy wand, IF. In
			places fills show some horizontal banding.
			PHs: .1 BD 0.64m; strong brown (M) compact
			loamy sand, IF, MF, CF; .2 SD 0.74; strong
			brown (M) loose loamy mand, IF, CF; .3 SD
			0.74m; strong brown (M) - reddish yellow
			(M) compact sand, CF, MF; .4 8D 0.56m; as
			.1: .5 SD c. 0.94m fill not described; .6
			SD c. 1.08m fill not described: .7 SD
			0.95m; yellowish brown (M) compact send,
			IF, CF; .8 8D 0.93m; as .7; .9 SD 0.41m;
			reddish yellow (M) sand, IF; .10 SD c.
			0.73m; fill not described; .11 SD 0.70m;
			yellowish brown (M) compact wand, IF, CF,
			MFS . 12 SD c. 0.40m; strong brown (M) sandy
			milt loam, IF, CF, MF; .13 SD 0.53m; dark
			yellowish brown (M) compact sandy loam, IF,
			CF, MF: .14 8D 0.51m; as .12; .15 8D 0.51m;
			mottled strong brown - dark yellowish brown
			(M) sandy loam, CF (especially in upper
			fill), IF, HF; .16 BD 0.58m; am .12; .17 SD
			0.53m; as .12.
			Finds: HAR-5551, 5553, 5554, 5558.
(480)			*
(401)			+ +
(482)	_		* *
483	1		Pit, SD 0.24m; strong brown (M) mandy
			milt loam, IF, CF, MF.
484	i		PH, SD 0.26m; strong brown (M) sandy
			loam, If, CF, MF.
485	prob	1	PH, SD 0.37m; strong brown (M) sandy
			loam, IF, CF.
486	1		?PH, SD 0.42m; strong brown (M) sendy
			loam. IF. CF. MF: relationship with 487
			uncertain.
487	1		7PH, SD 0.38m; atrong brown (M) sandy
	_		loam, CF, MF; relationship with 486
			uncertain.
(488)			m +
(489)			= +
			= 233
(490)			
491	1		PH, SD 0.47m; .1 strong brown (M) sandy
			milt loam, IF, MF, CF: .2 strong brown (M)
			- dark yellowish brown (M) mandy wilt !.am,
			IF, LF, CF, MF.
(492)			* 233
(493)			233

(494)		* 233
495	1	?PH, SD 0.25m; strong brown (M) lowmy mand, IF. CF. Cut by 445.
476	1	?Foundation trench: SD 0.ilm: mottled brown (M) lowey mand, IF. Probably continuation of 497, 766.2 and 767, here much eroded.
497	1	?Gully, SD 0.07m; mottled atrong brown (M) sand, IF, CF. Probably continuation of 496, 766.2 and 767 here much eroded.
(498)		= 416
499	1	?PH, SD 0.17m; brown (M) loamy mand, If.
(501)		= + = +
(502)		= + = +
(503)	4411	•
504	4Aii	Robber trench, SD 0.17m; light greenish grey clay loam, small — medium IF, MF and many CF. Finds: Nu9; Cu35, 56, 80, 81, 82; Fe62.
(505)		= +
506	prob 4Ai pomm 4Aii	= (519.31, 537). Wall; .1 irregular ironstone blocks; .2 large ironstone blocks containing rubble core; .3 ironstone and limestone blocks, rubble core; .4 ironstone
		and mandatone blocks, rubble core, partially burnt; .5 limestone and ironstone blocks; .6 (519.31) limestone and ironstone blocks under thin capping of mixed clay; .7 (537) construction trench, fill not described3 may be marlimst surviving wall section (with part being incorporated into 519.67), .12, .45 later walling and/or rebuilds, (.4 and .5) after oven complex (519) went out of use.
507		= + Pit stone lined. Not excavated.
508	prob 4	Finds: Cu53.
509	4Ai	Pit, 9D 0.91m; .1 light olive brown (M) sandy clay loam, many small 1F, some CF; .2 as .1, fawer 1F, CF, MF; .3 stone lining (only W and surviving), ironstone blocks. Finds: fs.
510	4Aii	Wall; only fragments surviving; .1 (510) mixed ironstons and limestone rubble, matrix as 504, two courses surviving; .2 (515) as 510; .3 (516) as .1, four courses surviving (partially subsiding into underlying pit).
511	4	= (551). Stone foundation; ,1 (511) limestone and ironstone blocks, a few mandatone and flint frags in light grey mortar; .2 (551) construction trench, loose olive brown clay loom, IF.
512	4A1	Pit, SD not recorded; stone lining and base (limestone slabs) only surviving.
513	3/4	= (549). Pit, 8D 0.49m; .1 light olive

brown (M) silt loam, CF, MF, IF. .2 (549) olive brown (M) clay loam, CF, IF and MF. Possibly construction tranch or robber for wall 506. 514 4A Pit, SD c. 0.14m; only lining surviving limestone and ironstone blocks. clive brown (M) silt loam matrix. = 510 (515)(516)- 510 517 Pit, SD 0.69m; .1 mixed plive (M) silt loam, IF, CF, MF; .2 mixed white, gray and yellow clay. Traces of stone lining surviving but only at uppermost level. (51B) 519.1 = (519.2-.4). Layer, mixed light - dark greyish brown (M) clay loam and milt loam, ironstone rubble, MF, CF, etc. NOP. Destruction levels or deposits after ovens had gone out of use. Finds: AF11. 519.6 = (519.7-.11, .16-.20, .23-.24, .28, .30, .32-.33, .35). Oven, 8D 0.33m; two phase firing chamber. First phase (519.11, .18-.20, .23, .24, .28-.30, .32, .33, .35): floor - limestone and ironstone slabs, burnt, with burnt clay matrix and some ash overlying construction trench and other fills (mixed silt loams, sandy and clay loams, IF, rubble etc.); wall - large ironatone blocks neatly laid, backed by I rubble, burnt on inner face. Second phase (519.6-.10, .16-.17): floor - limestone slabs, burnt, with mixed burnt silt loams and clay loam matrix and some ash overlying make-up, between first and second phase structures, of mixed silty clay loam loam and burnt clay, ash etc; wall - large limestone and ironstone blocks over small If rubble, burnt on inner face. .24, .28, .32, .33 and .35 lie under 519.6 but also beneath .20 and .26 in various combinations. Possibly they may be part of an marlior (?oven) structure or construction/levelling for the complex as it stands.

519.20 4

= (519.25). Oven, - stoke chamber for 519.6 and/or 519.21? (partly built over 519.26); floor limestone and ironstone paving, mixed clay matrix and ash, wall - irregular ironstone blocks in mixed clay and loam.

519.21 4

= (519.22, .27). Oven, 50 0.38m; single firing chamber; floor - burnt limestone slabs with ash and charcoal where paving absent, wall - limestone and ironstone blocks in mixed clay matrix.

519.26	5 4	Oven, floor only of earlier phase firing chamber surviving - burnt limestone slabs. Possible position of wall on SE side indicated by change from burnt to unburnt sand.
(519.3)		= 506.6
520	4A	= (521). Pit, SD 0.22m; .1 plive brown (M) silt loam, MF, CF; .2 plive (M) clay loam, IF, ash lenses with CF and burnt mand; .3 light yellowish brown (M) silt loam, MF; .4 plive mortar with dark plive clay loam patches; .5 pale yellow (M) sandy silt loam, mortar lumps; .6 (521) light plive brown (M) sandy silt loam, MF, CF; IF. Finds: Fei09.
(521)		
522	4A1 _	Pit, SD 0.38m; .1 olive brown (M) milty loam, mortar lumps, CF, IF; .2 olive brown (M) mandy milt loam, MF, IF, CF.
52 3	3	Pit, SD 0.62m; .1 light olive brown (M) silt loam, CF, IF; .2 red (M) loamy mand, lenses of charcoal and off-white ashy clay; .3 ash, charcoal, sand and mottled cess lenses interspersed with light olive brown (M) silt loam containing much mortan; .4 mixed sand and light olive brown (M) silt loam, CF, IF; .5 yellowish brown (M) clay loam with much mortan; .6 orange sand and light olive brown (M) silt loam, CF, IF; .7 mixed dark greyish brown sand loam with much CF. Finds: WBi.
524	4A1	Pit, SD 0.12m; olive brown (M) sandy silt loem, much charcoal, some MF lumps.
525	4Ai	Pit, SD 0.49m; .1 olive brown (M) silty loam, MF, 1F, CF; .2 dark græyish brown (M) clay loam, 1F, CF.
526	prob	CF. MF, 1F, LF.
527	4Ai	= (528, 560). Pit, SD not recorded; olive brown (M) mandy milt loam, MF, CF, IF, (mome ironstone rubble at lowest level).
(528)		* 527
529	4A1	Pit, SD 0.59m; .1 light olive brown (M) silt loam, many 1F and CF, some MF and patches of light gray ashy clay; .2 stone lining of ironstone and limestone blocks set in construction trench.

530	4Ai	Pit, SD 0.62m; .1 olive brown (M) sandy silt loam, IF, CF, worter lumps and mixed clay patches; .2 yellowish brown (M) sandy silt loam, IF, CF; .4 olive brown (M) silty clay loam, IF, CF, MF and mixed clay patches; .5 olive (M) clay loam, CF, IF and clay patches; .3 stone lining — ironstone and sandstone blocks and construction trench.
531	4Ai	Finds: Cu49. Pit, 8D 0.23m; olive brown (M) sandy silt loam, IF, MF and CF.
532	3/4	Pit, SD 0.34m; light olive brown (M) sandy silt loam with patches of sand and dark brown clay loam, much mortar, CF, IF, LF.
533	4Ai	Pit, SD O.6im, not bottomed; loose olive brown (M) clay loam, CF, MF, IF.
(534)		= 123.3
535	3/4	Pit, SD 0.66m; .1 light olive brown (M) sandy loam, CF, MF, LF, IF; .2 dark yellowish brown (M) sandy clay loam, MF and lumps, CF, IF.
536	48	Pit. BD 0.64m; .1 sparse off-white ashy silt loam; .2 olive brown (M) silt loam, CF, small IF and larger ironstone and limestone blocks in upper fill. Finds: Cu4, 23.
		•
(537)		= 506.7
538	4Ai	Pit, SD 0.96m, not bottomed; olive brown (M) clay loam, CF, MF, IF. Finds: Fe10i.
539	4A1	= (561). Pit, SD 0.55m; olive brown (M) sandy silt loam, many CF, MF wome IF.
540	3/4Ai	PH. SD O.65m; .1 post pipe, dark greyish brown (M) silt loam, CF, MF, 1F; .2 mixed light plive brown (M) - plive brown (M) clay loam and strong brown (M) - reddish brown (M) sand, IF (concentrated at base), one large piece of limestone, MF, CF. Width of post pipe not recorded.
		Finds: Fe42.
541	4Aii	Pit, SD 0.30m; olive (M) silt loam, CF (and bone ash?), IF, MF.
5/12	3/4	Finds: Cu36-9, 63; Fe107. PH. SD 0.05m; .1 mixed dark grey (M)
		silty clay loam with much charcoal, olive brown (M) silt loam and light gray (M) clay: .2 olive brown (M) silt loam, with some orange brown sandy silt loam, CF, 1F.
543	4011	Pit, SD 0.95m, not bottomed; .1 light plive brown (M) sandy clay loam, CF, IF, MF; .2 light olive brown (M) silt loam, CF, MF and much animal bone (especially horn cores); .3 plive brown (M) clay loam, IF, MF, CF; .4 very firm plive brown (M) sandy

		clay loam, tightly packed IF; .5 firm olive (M) clay loam, many CF, MF, IF; .6 as .2; .7 firm dark - very dark grayish brown (M)
544	4A1	clay loam, many NF, CF, IF. Finds: fs; TS; RT10, 11. PH, SD 0.28m; .1 (post pipe?) dark greyish brown (M) silty clay loam; CF, IF; .2 mixed orange sand and greenish grey clay loam;
545	3	IF; .3 mm .1; .4 loase dark greyish brown clay loam, CF; .5 post pad - large limestone block, Fi ds: RT6; GL. = (591). Pit, SD 0.76m; .1 olive (M) silt loam, LF, CF, MF; .2 olive brown (M) clay loam, IF, LF, MF, CF; .3 light olive brown (M) sandy loam, IF (some burnt), LF, CF and lenses, MF.
546	4 A1	Finds: W897. Pit, SD 0.26m; plive brown (M) sandy
547	prob 3	silt loam, CF, mortar lumps, IF. PH/SH, SD 0.16m; light olive brown (M)
548	4Ai?	sendy milt loam, MF, CF, one vertical LF. PH/Pit, SD 0.17m; pale brown (M) ashy
(549)		clay loam, CF, IF, one large IF. NOP. = 513
350	3?	Pit, SD 0.35m; olive brown (M) clay loam, IF, CF, MF.
(551)		= 511
552	3/4	PH, SD 0.3am; .1 white ~ very pale brown (M) ashy silt with light clive brown (M) silt loam patches, CF; .2 clive brown (M) sandy clay loam. IF, CF, MF.
(553) (554)		= +
555	prob 3	PH, SD 0.36m; .1 mottled dark yellowish brown (M) — strong brown (M) loam and sandy loam, MF, CF, IF, burnt sand flecks; .2 strong brown (M) sandy loam, IF, CF; .3 dark yellowish brown (M) sandy loam, CF,
556	prob 3	burnt sand. PH, SD 0.40m; soft dark yellowish brown (M) sandy loam, IF (more dense at top), CF and ash flacks, MF. Finds: fs.
557	prob 3	PH, SD 0.15; .i plive brown (M) ashy silt loam, CF; .2 dark yellowish brown (M) silt
558	4Ai	loam, IF. Pit, SD 0.50m; .1 light olive brown (M) silt loam, IF, CF; .2 olive brown (M) silt loam, IF, CF, MF; .3 as .1, sandy silt loam, MF; .4 vellowish brown (M) loamy sand, IF, CF, MF; .5 as .2 without MF; .6 as .4; .7 as .3; .8 olive (M) silt loam, MF, IF, CF. Finds: fs.
559	4Ai	Depression? SD 0.15m; dark brownish grey

(560) (561)		(M) wilt loam, CF, MF, IF. Beneath is a patchy band of very pale brown (M) asky clay and CF which may have subsided into price top fill of underlying pits. Possibly spread of material from 575, NOP. = 527
562	441	Pit, SD not recorded; plive (M) sandy silt loam, IF, MF, CF. Finds: Nu4; CuB; tw.
(563) 564	4Ai	Pit, SD 0.76m, not bottomed; .1 light olive brown (M) silt loam, CF, MF, IF; .2 light olive brown (M) clay loam, CF, IF; .3 light grey ashy clay, CF
565	3/4Ai	Pit, SD 0.44m; .i olive (M) milt loam, CF, IF, MF; .2 mixed loam am .l and orange mand. CF, HF, IF; .3 am .l more MF, additional LF. Finds: Fe39.
566	3	Pit, SD 0.40m; .1 light olive brown (M) sandy milt loam, MF, CF, IF; .2 mtrong brown (M) loamy mand with light olive brown (M) clay loam patches, IF (mome burnt), CF2 may have been an marller feature cut by .1.
567	4Ai	Pit, SD 0.15m; plive (M) wilt loam with off-white much lenses, Wand and IF.
568	4Aii	= (578). Pit, SD 0.45m; dark grayish brown (M) clay loam, ash, CF, IF. Finds: Cu40, 41, 44, 52, 61, 62, 83-87; Fe10, 11, 15, 30; T1.
569	prob 4Aii	Pit, SD 0.35m; .1 firm light olive brown (M) silt loam, ash, CF, large LF and sendstone pieces, small IF; .2 loose mixed light plive brown (M) and dark greyish brown (M) clay loam, ash, CF; .3 loose plive brown (M) sandy silt loam, ash, CF; .4 firm plive (M) sandy silt loam, CF, IF; .5 firm plive brown (M) sandy silt loam, CF, MF, IF. Finds: Fe63.
(570)		= +
57 i	4Ai	PH, BD 0.19m; olive (M) clay loam, CF, IF.
572	4A i	Pit, SD 0.69m; .1 olive brown (M) milty loam, CF, MF, IF, LF; .2 light plive brown (M) milty loam, CF, MF, IF; .3 as .2; .4 olive brown (M) milty clay loam, MF, CF. Finds: FeSS.
573	3/4Ai	Pit, SD 0.16m; light olive brown (M) sandy silt loam, IF, MF and lumps, CF.
574	prob 4Ai	Pit, SD 0.51m, not bostomed; olive brown (M) clay loam, IF, MF, CF.
575	4 A 17	Pit, SD 0.18m; .1 light olive brown (M) sandy milt loam, CF, MF, IF; .2 off-white - reddish clay, charcoal on upper murface; .3

		red (M) - dark red (M) burnt sand: .4 stone lining - ironstone and sandstone blocks,
576	4Ai	burnt on inner faces. Pit, SD 0.78m, not bottomed; olive brown (M) clay loam, orange sand patches, CF, MF, IF, LF.
577	4Aii?	Finds: Fe124, 125. Pit/PH, SO 0.21m; very loose clive brown (M) clay loam, CF, IF, tand one larger block at bottom) and lens of very pale brown (f) sand. NOP.
(579)		= 568
579	4Ai i	Pit, SD 0,70m, not bottomed; olive brown (M) clay loam, CF, IF, LF, MF and lumps.
	44.)	Finds: Nu3; Cu88, 92; Fe64, 65, 108.
580	4Ai i	Pit, SD 0.35m; .1 very loose plive gray (M) clay loam, CF, MF, IF, ashy patches; .2 light gray ashy clay over dark brown (M) clay loam, IF; .3 plive brown (M) sandy clay loam, IF.
581	4A?	Pit, SD 0.37m; .1 compact yellowish brown (M) sandy loam, CF, MF, JF; .2 dark grayish brown (M) sandy clay loam, CF, MF, JF orange sand patches; .3 as .2 with more
582	4Ai	pit, SD 0.87m, not bottomed; .1 olive brown (M) sandy silt loam, IF, CF, morter lumps; .2 olive brown (M) clay lumm, IF, CF. Four post holes were noted, one in each corner, in the upper fill of the pit but were removed with the fill itself and not visible at the level at which excavation
58 3	orob 4Ai	stopped. Pit, SD 0.19m; olive brown (M) clay loam, MF, IF and sand flecks.
584	4Ai	Pit, SD 0.22m; light plive brown (M) sandy clay losm, MF, IF, LF, CF, orange sand patches.
585	prob 4Ai	SD 0.16m; plive prown (M) silt loam, MF and lumps, CF, IF.
586	4Ai	Pit, SD 0.25m; .1 light plive (M) milty clay loam, CF, MF, IF; .2 prange with greenish tinge, mandy loam, IF, MF, CF; .3 as .1 without MF. NDP.
(587)		= 123.3
(588)		= 123.4
(587)		= 123.3
(590)		* 123.5
(591)		= 545
592	4Ai?	= (593). Gully, SD 0.37m; .1 (592) mixed olive yellow (M) - plive (M) mandy milt loam, CF, MF, IF, LF; .2 (593) plive brown (M) mandy milt loam.
(593)	_	- 592
594	3/4A1	Pit, SD 0.46m; light plive brown (M) sandy loam, CF, MF, IF, LF.

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595	3/ 4 Ai	Pit, SD 0.46m; clive brown (M) milty loam, MF, IF, CF.
576	3/441	PH? BD 0.11m; fill removed before being described. NOP Phase 4.
597	3/4	PH, SD 0.35m; .1 mixed plive brown - dark grey sandy clay loam, IF, CF, MF; .2 blive brown (M) sandy clay loam, CF, MF, IF and grey clay patches; .3 orange brown sand, IF; .4 as .2; .5 very loose mixed dark greyish brown loam, CF, MF, IF; .6 post pad - one large ironstone block; .5 post pipe c. 0.14m wide, with .14 as packing.
598	3?	= (922). PH, SD 0.17m; mixed light olive brown (M) clay loam and yellowish brown (M) sand, MF. CF and two large limestone blocks.
5 99	3?	Pit, SD 0.55m; .1 I rubble, olive brown (M) clay loam matrix, MF, CF; .2 as .1, no rubble; .3 mixed clay, CF, MF, IF, with lenses as .2 and of charcoal; .4 charcoal and pink and vellow ashy clay patches; .5 mixed olive brown (M) and dark grayish brown (M) clay loam, CF, MF, pale yellow (M) ashy silt loam lens and sand patches; .6 burnt limestone slabs; .7 gray (M) clay loam over pale yellow (M) ashy silt loam, CF, sand patches (Signs of this layer being burnt where adjoins .6).
(600) 601 (602)	ı	= 105 Pit/PH, SD 0.40m; strong brown (M) sand. Relationship with various sand levels uncertain but possibly cut from top of 233. Possibly cut by 740, 741 and 753. = 187
603	1/2	PH, SD 0.22m; strong brown (M) sand, MF, LF, CF, IF.
(604)		= 432
605	2	PH, SD 0.32m; yellowish red (M) to dark yellowish brown (M) ashy burnt sand, CF, MF over strong brown (M) sand, CF, IF.
(909)		= 161_
607	27	PH, 8D 0.35m; dark yellowish brown (M) sandy loam burnt sand, CF, MF, Possibly later than Phase 2.
(608)		² 179
(609)		= 187
(610)		= 168
(611)		= 168
(612)		- 168
(613)		= 187
(614.1)		?= 187. =(614.4, .7).
· · · · · · · · · · · · · · · · · · ·	1	-(.3, .5, .6, .8, .9). Foundation, SD
#17·4	•	0.34m; yellowish brown - reddish brown (M) sandy losm. Regarded as continuation of 655.
(615)		= 233
(015)		- 200

(615) (617) (618) (619) (620) 621	1/2	= 432 = 432 = 432 = 233 = 187 Pit, SD 0.34m; .2 reddish yellow (M) silt loam, occasional flint peobles over .3, as .2 but harder and more peobles. Contained two possible PHs: .1 SD 0.24m; yellowish brown (M) silt loam, occasional flint peobles; .4 brown (M) sandy loam, CF, IF, .1 and .4 could possibly have been cut into earlier pit (.2 and .3) rather than being part of it. Cuts 711.
((20)		•
(622)		= 167
(623)	4.45	= 432
624	1/2	PH, SD 0.15: strong brown (M) mandy loam, 1F, MF.
(625)		= 432
(626)		= 187
627	1	?PH, SD 0.09m; strong brown (M) friable sandy loam, IF.
62 8	27	PH. SD 0.35m; yellowish brown (M) - dark yellowish brown (M) sandy loam, MF, IF, LF.
629	1/2	PH. 9D 0.19m; strong brown (M) sandy loam, MF. occasional flint peoble and white clay flecks.
630	1/2	PH. BD 0.10, strong brown (M) mandy loam, white clay and MF. Cuts 233.
631	2?	PH, SD 0.30m; brown (M) sandy loam, MF. two large pieces of limestone. Cuts 432.
632	2?	PH. SD 0.13m; light brown sandy loam, MF. CF. cuts 179.
633	1/2	Pit/PH. SD 0.441 strong brown (M) loam IF. MF and a number of large LF in topmost
(634) (635) (636)		fill. Perhaps the latest part of Phase 1 (cuts 638) or possibly associated with Phase 2, but unlikely to be later. = 145 = 179 = +
	1	= (712, 714, 779). Foundation trench, 8D
	•	0.51m; ,1 (637.67) dark yellowish brown (M) mandy loam, IF (may be overlying 'metalling' subsided into 637); ,3 (637.1, .3) brown (M) sandy loam, occasional flint pebbles; .2 (637.2, .4) dark brown (M) sandy loam, flint pebbles; lenses not separated in other sections (637.5, 712, 714, 779) dark brown (M) orange flecked sandy loam (contaminated by later pit); strong brown (M) sandy milt loam, CF, IF, very occasional flint pebbles; strong brown
		(M) loamy sand, IF, CF.
638	1	Finds: Fe77. - (656, 676). Foundation trench SD 0.6m;

		strong brown (M) sand with varying quantities of 1F. Pockets and lenses of yellowish brown (M) sand and greater or lesser quantities of IF but no PHs could be
		isolated, although towards the E end the slot in section appeared to be divided into
		two longitudinally. Probably part of structure represented by 683, 690, 697 and 704, 713, 638 seemed to cut 690 and there
		were faint indications in section that it cut 455.
639	2	PH, SD 0.07m; strong brown (M) sand, some white clay on surface. Overlaid by 161, cuts 179.
640	2	PH, SD 0.16m; strong brown (M) sand, MF. Overlaid by 161, cuts 179.
641	1	Layer, mixed patch of charcoal and light grey (M) clay surrounded by burnt wand. Below 187 and on top of 233. Probably
44.400		equivalent of 439, 440, 689, 766.1, 1101.
(642) (643)		= 233 = 187
(644)		- 197 - 179
(645)		- 1/7 - 187
(646)		= 233
647	1/2	PH, SD 0.32m; strong brown (M) light sandy loam, CF, MF, IF and one large piece of
1.46		burnt ironstone.
648	1	PH. SD 0.25m; yellowish brown (M) sandy loam, occasional flint pubbles.
(649) 650	1	= 187
830	•	= (662). Bully, SD 0.54m; yellowish brown (M) Sandy loam, IF, occasional flint pebbles. Finds: Fe78.
(651)		* 197
(452)		= 107
453	1	PH, SD 0.08m; strong brown (M) loamy mand, IF.
(654)		= 233
455	1	Foundation trench, SD 0.40m; strong brown (M) - yellowish rad (M) loamy sand, CF, IF, LF. Probably cut by 656; cuts 665, 684,
		716.
(656) (457)		= 638 = 187
(657) 6 58	1	Foundation trunch, SD 0.33m: vellowish
	•	brown sendy leam, IF, CF, some large ironstone and limestone pieces. Probably continued 8 as 684 and 716.
659	1/2	PH, SD 0.48m; yellowish brown (M) sandy loam, limestone packing, occasional flint pebbles.
660	1	PH, SD 0.40m; yellowish brown (M) sandy loam, CF.

661	1	PH? SD 0.38u; yellowish brown (M) loamy
****	•	mand, CF. Cuts 716, uncertain relationship
		to 665.2 and 655.
(662)		= 650
443	1	PH, SD 0.44m; .1 dark yellowish brown (M)
		loam, CF, IF: .2 strong brown (M) sandy loam, IF, CF, MF.
464	1	= (669, 675). Foundation tranch 8000m;
	-	strong brown (H) sand - sandy loam. IF and I
		gravel, CF, MF. PHs: .1 SD 1.06m; void; .2
		8D 1.02m, partially void, remaining fill
		strong brown (M) very loose sandy loam, IF
		and I gravel, CF, MF; .3 5D c. 0.97m; void but occasional small IF at base; .4 8D c.
		0.97m; strong brown (M) loam, IF; .5 SD c.
		1.00m; ws .3; .6, SD not recorded;
		partially void, remaining fill strong brown
	•	(M) very loose loamy mand, IF, CF.
665	1	Foundation trench, SD 0.50m; strong brown (M) sandy loam, CF, IF. Faint dark
		vellowish brown (M) - yellowish brown (M)
		vertical bands c. 0.20m wide and
		alternating with similar bands of the main
		fill worm meen in the longitudinal section.
		They perhaps indicated the position of vertical timbers but nothing could be seen
		in plan. Similarly at the W and of the mlot
		a cross section suggested that the slot was
		divided into two longitudinally (of 638).
		Probably part of the same structure as 672
665.2	•	and 677.
00J. I	•	PH, SD 0.50m; strong brown (M) loam, CF. Cuts 716; uncertain relationship to 661.
		665.
(444)		= 197
(667)		• 233
(669)		= 233 = 664
(670)		- 233
671	1	End of gully? 8D 0.43m; yellowish brown
		(M) mandy loam, IF, CF, LF and occasional
	_	flint pabbles.
672	1	Foundation trench, SD 0.45m; .1 yellowish brown (M) mandy loam, IF; .2 strong brown
		(M) - yellowish brown (M) mandy loam, If:
		.3 strong brown (M) sandy loam, IF: .4
		yellowish brown (M) sandy loam (1F): .5 as
		.4. In the longitudinal section vertical
		bands c, 0.30m - 0.45m wide suggest posts
		within the trench probably set at c. 0.60m centres, cf. main timber buildings 787
		probably 8 and of this slot which continues
		northwards as \$77.
673	1	= (725). PH, 8D 0.28m; dark yellowish brown
		(M) loamy mand, IF, CF.

(674)		= 233
(675)		= 465; 664
(676)		= 628
677	1	Foundation tranch, SD 0.40m; strong brown (M) sand, frequent IF. Cut by 690. Probably
		part of the same structure as 665 and 672.
678	1	PH, SD 0.32m; strong brown (M) sandy loam, IF. Cuts 711.
679	1/2	PH, SD 0.26m; brown (M) sandy loam, MF (mainly in top 0.02m), CF, IF,
6B O	1	PH, SD 0.28m; strong brown (M) loamy
681	1	sand, MF, IF. PH, SD 0.30m; strong brown (M) sandy loam,
682	1?	<pre>iF, MF. Possible contamination from 156. Pit, SD c. 0.30m, reddish yellow loamy</pre>
		said, occasional publies, IF, CF; a number
		of 1 constone and limestone fragments on the bottom.
683	1	Foundation tranch, SD 0.40m, (locally
		0.55m, where ?posts located); yellowish
		brown (M) - strong brown (M) mandy loam,
		IF, occasional CF. Probably part of
		structure represented by 639, 690, 697, 704, 713.
684	1	Slot, SD 0.32m; strong brown sandy loam,
		occasional CF, IF. Probably continuation of 658 and 716. Cut by 655, 656 and 665.
485	2	PH: yellowish brown (M) sand, IF, CF.
686	1	Foundation trench, SD 0.14m; dark yellowish brown (M) sandy loam, IF.
687	1/2	PH, SD 0.21m; brown (M) sandy loam, IF, LF, MF, CF.
686	1	Foundation trench, SD 0.40m; .1 strong
	_	brown (M) loamy sand, IF, CF; .2 PH? SD
		0.31m, brown (M) sandy milt loam, CF (and
		ash in top 0.13m) MF; .3 PH? strong brown
	_	(M) loamy mand, CF, MF.
689	1	Layer; dusky red (M) - black (M) burnt
		sand. Overlies 688 and by implication 233
		but below 187. Probably equivalent to 439, 440, 641, 766.1, 1101.
690	I	= (691, 692, 727, 788). Foundation trench,
0.0	•	SD 0.4m; strong brown (M) - brown (M) loamy
		sand, IF. On initial cleaning, possible
		posts c. 0.30m across identified in E half
		of slot but evidence tenuous and not
		conclusive. Cuts 677; shallower than 676 by
		which it was apparently cut; no
		relationship established with 665 but
		presumably later than it as 667 probably contemporary with 665. Probably part of
		structure represented by 638, 683, 697,
		704, 713.
(691)		- 690
(692)		- 690
(693)		- 465

694	1	Foundation trench/PH, SD 0.24m; strong brown (M) sandy loam, CF, IF. Possibly PH (cf 715) or possibly part of a slot
		associated with 661.
695	1	PM? 8D 0.28m; strong brown (M) sandy loam, CF. Cuts 696.
696	1/2	?= (703). PH, SD 0.33m; strong brown (M)
	• • •	mandy loam, CF, one burnt LF on surface.
		Cut by 695.
497	•	= (499, 700, 705-7, 709-10).
97/	1	
		Brown (M) - strong brown (M) loasy sand, CF
		IF. This area which lay between slots 455
		and 698 had no clear boundaries with
		mither. Careful examination failed to
		clarify the nature of the deposits although
		a possible PH was noted at its N edge where
		cut by pit 20. This PH? would be in the
		correct position to continue the line of
		those within slot 603 and it is suggested
		that whot 683 continued through this area
		to form a corner with 638 although this is
		obviously tentative. 665 quite possibly had
		also continued across this area. Probably
		part of structure represented by 638, 683.
		690, 704, 713.
698	i	?Foundation trench, SD 0.23m; strong brown
	-	(M) toamy sand, IF, CF.
(699)		= 697.
(700)		= 697.
701	1	PH, 82 0.53m; strong brown (M) %andy loam,
7.77	•	IF. Cut by 695?
(702)		1F, GUE BY 870?
		·
(703)	•	= 696
704	1	= (708, 717-18), Foundation trench, SD
		0.40m (locally 0.65m where ?posts located);
		dark yellowish brown (M), brown (M), strong
		brown (M) Sandy loam, IF, CF. Possible PHs
		visible in cross-section as vertical bands.
		Probably part of structure represented by
		638, 683, 690, 697, 713.
(705)		= 697
(706)		= 697
(707)		≖ 697
(70日)		* 704
(709)		≖ 697
(710)		= 697
711	1	Pit? SD 0.23m; strong brown (M), IF, CF,
		occasional flint pubbles.
(712)		= 637
713	prob 1	PH, SD 0.16m; strong brown (M) sandy loam,
	-	CF, IF. Probably part of structure
		represented by 638, 683, 690, 697, 704.
(714)		= 637
715	prob l	PH, SD 0.14m; brown (M) sandy loam, CF.
	•	IF.
716	1	Foundation trench, SD 0.32m; strong brown

		(M) sandy loam, occasional CF, IF. Probably
		continuation of 658 and 684. Cut by 661,
		665, 655, 665.2.
(717)		* 704
(718)		= 704
(719)	_	= +
720	1	Pit, SD c. 0.13m; brown (M) - dark brown (M) wilt loam, CF, IF.
(721)		≖ +
(722)		- +
(723)		* +
724	1	PH, BD 0.34m; strong brown (M) sandy milt loam, IF, CF.
(725)		≝ 673
726	1	Pit/PH, SD 0.38m; brown (M) sandy loam, IF, CF.
(727)		= 690.
728	1	?PH, SD 0.06m; brown (M) loamy sand, CF.
(72 9)		= Natural
730	1	Pit, SD 0.53, brown (M) wandy milt loam, IF, CF, MF.
731	1	7PH, SD 0.14m; strong brown (M) Idamy mand. IF, CF.
732	1	PH, SD 0.21m; strong brown (M) loamy sand, IF, occasional flint pubbles. Cuts 711.
(733)		= 187
(734)		- 233
735	1	PH, SD 0.17m; brown (M) loamy mand, IF, MF, CF.
736	1	PH, SD 0.47m; mottled strong brown (M) sandy milt loam, IF, occamional flint
		pebbles.
737	1	PH, SD 0.14m; strong brown (M) sandy
,	•	silt Ioam, CF, MF, IF.
738	1	PH. SD 0.24m; strong brown (M) loamy
. 35	•	sand, MF, CF, IF.
739	1	PH. SD 0.22m; strong brown (M) loamy
	-	sand, IF, MF.
740	1	PH, SD O. 16m; yellowish brown (M) sandy
	-	wilt loam, CF, MF.
741	1	7PH, SD 0.07m; brown (M) sandy wilt
• • -		loam, CF.
742	1	?m (747). PH. 8D 0.40m; 742 strong brown
	_	(M) Ioamy sand, IF, CF; 747 as 742 without
		CF, 747 post pit for 742?
フ43	1	PH. SD 0.37m; strong brown (M) clay
		loam, CF, MF, IF.
744	1	PH. SD 0.24m; brown (M) - strong brown (M)
		toamy mand, CF, IF.
745	1	PH. 8D 0.37m; strong brown (M) sandy
_		loam, IF and occasional flint pebbles, CF,
		WF.
746	1/2	PH, SD O.11m; brown (M) loam, MF, CF.
(747)		?= 742.
(748)		= 233
(749)		= 107

(750)		- 233
751	1	PH, SD 0.10m; strong brown (M) loamy
/31	•	sand, CF.
752	1	PH, SD 0.19m; strong brown (M) loamy
		sand, IF, CF.
753	1	PH, SD 0.09m; strong brown (M) loamy sand,
		IF, CF.
754	1	PH, SD 0.lém; strong brown (M) loamy
		wand, IF.
755	1	PH, SD 0.10m; strong brown (M) sand, IF.
756	3	PH? SD 0.07m; light brown (M) - reddish
		brown (M) mandy loam, CF, with ash and ashy
		loam.
757	1?	?PH, SD 0.19m; fill removed (dark
		yellowish brown (M) very loose loss)
		probably back-fill from excavation of pit
		15; no original fill surviving.
738	17	?PH, SD_0.09m; strong brown (M) loamy
		sand, IF and gravel.
(759)		= Natural
760	17	PH? SD 0.22m; strong brown (M) - reddish
47445		yellow (M) sand.
(761)		= 233
(762)		= 233
(763)		= 233 = 233
(764)		= 233 = 233
(765) 766.1		= (790). Layer, yellowish red (M) burnt
/00.1	•	send, IF, some ash and CF. Probably
		equivalent of 439, 440, 541, 589, 1101.
		equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2.
766. 2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556.
766.2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine
766.2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2
766.2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M)
766.2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably
766.2	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M)
766. 2 767	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W.
		equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not
		equivalent of 439, 440, 541, 589, 1101. Subsidence into 755.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinktsh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish
		equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably
		equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497.
767	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pink(sh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23.
		equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pink(sh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M)
767 768	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pink(sh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fine, sand.
767	1	equivalent of 439, 440, 641, 689, 1101. Subsidence into 766.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m: .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinktsh white (M) material (ash/limm/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fint sand. Pit, SD 0.17m; strong brown (M) sand.
767 768 769	1	equivalent of 439, 440, 541, 589, 1101. Subsidence into 755.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinkish white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fint sand. Pit, SD 0.17m; strong brown (M) sand, CF, MF.
767 768 769 (770)	17	equivalent of 439, 440, 541, 589, 1101. Subsidence into 755.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pink(5h white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fine sand. Pit, SD 0.17m; strong brown (M) sand, CF, MF. = 233
767 768 769 (770) 771	1 1? 1	equivalent of 439, 440, 541, 589, 1101. Subsidence into 756.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinktsh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fine sand. Pit, SD 0.17m; strong brown (M) sand, CF, MF. = 233 ?PH, SD 0.07m; brown (M) sand.
767 768 769 (770) 771 772	1 1? 1 1? 1?	equivalent of 439, 440, 541, 589, 1101. Subsidence into 756.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinktsh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fine sand. Pit, SD 0.17m; strong brown (M) sand, CF, MF. = 233 ?PH, SD 0.07m; brown (M) sand. ?PH, SD 0.01m; strong brown (M) sand.
767 768 769 (770) 771	1 1? 1	equivalent of 439, 440, 541, 589, 1101. Subsidence into 756.2. Finds: HAR-5556. Foundation trench, SD c. 0.25m; .2 fine yellowish brown (M) silt loam, CF; .3 as .2 but with lenses of fine pinktsh white (M) material (ash/lime/clay?). Probably continuation of 767, 496 and 497. Not traced further W. Foundation trench, SD 0.10m; .1 yellowish brown (M) loam some orange staining, very occasional CF; .2 very pale brown (M) material (ash, lime, clay?). Probably continuation of 766, 496 and 497. Finds: Fe23. ?Depression, SD 0.14m; strong brown (M) fine sand. Pit, SD 0.17m; strong brown (M) sand, CF, MF. = 233 ?PH, SD 0.07m; brown (M) sand.

774	1	PH, SD 0.16m; brown (M) loamy sand, IF,
	-	MF. CF and occasional burnt mand flecks.
775	1	PH, BD 0.16, strong brown (M) loamy mand, IF and broken flint pebbles, CF.
776	1?	?PH, SD 0.09m; strong brown (M) sand, IF.
777	17	?Gully, SD 0.07m; strong brown (M) loamy sand, pubbles along base of feature.
(778)		= Natural.
(779)		= 637
(780)		= +
(781)		= +
782	1	PH/SH, SD 0.20m; strong brown (M) sandy
		loam, CF.
783	1	PH, SD O.16m; strong brown (M) sand, 1F.
784	1	PH, SD 0.08m; strong brown (M) loamy sand.
785	1	PH, SD 0.10m; strong brown (M) loamy sand,
		IF.
786	1	PH, SD 0.25m; strong brown (M) loamy sand.
プロフ	1	?Gully, SD not recorded; strong brown
		(M) sandy loam. Possibly butt end of 672.
(788)		≈ 690
789	1	?PH, SD 0.07m; strong brown (M) loamy
		sand, IF, CF.
(790)		= 766.1
(900)		= 313
(901)		= 127.58
902	3/4Ai	?PH, SD c . 0.33m; rocognised only after
		excavation - fill removed as part of 545.
903	2/3	PH, SD 0.36m; dark yellowish brown (M)
		sand, CF, 1F.
904	2	=(911, 923, 948-9, 1019). Layer; strong
		brown (M) sand with patches of dark
		greenish grey clay loam, 1F, CF and
		numerous bones (latter 904 only). (See Fig
		(M) 5).
905	prob 1	PH, BD 0.60m; .1 brownish yellow (M) sand
		and greenish gray clay loam, MF, CF, IF,
		LF: .2 light olive brown (M) clay loam with
		patries of reddish yellow (M) - strong
		brown (M) sand, CF, MF; .3 yellowish brown
		(M) sand and greenish grey clay loam, IF,
604	3?	CF, MF.
906	3.4	PH, SD 0.11m; mixed orange wand and light
40071		olive brown (M) clay loam, CF, MF, IF.
(907) 908	2/3	= 235
700	2/3	PH, SD 0.09m; mixed yellowish brown (M) sand and light olive brown (M) clay loam,
		CF. MF. IF.
909	2/3	PH, SD 0.12m; very mixed prange brown sand
147	- F-V	and olive brown (M) clay loam, MF, CF, 1F.
910	2/3	PH, SD 0.22m; .1 yellowish brown (M) sand
, 10	a. r 🕓	and light olive brown (M) clay loam, CF,
		MF, IF, LF; .2 yellowish brown (M) sand,
		IF, LF, CF, MF.
(911)		= 904.
		r = TE

912	1	Layer? .1 strong brown (M) sand, IF, with patches of olive brown (M) clay loam, CF; .2 reddish yellow (M) sand, loam patches as .1, IF/gravel, MF, CF. Overlaid by 9041 may be PH, SD C.24m. NOP.
(913) 914	3?	= 479 PH, SD 0.24m; mixed yellowish brown (M) send and light plive brown (M) clay loam,
(915)		CF, MF, IF. = 11
916	3?	PH, SD 0.16m; olive brown (M) clay loam,
917	1	CF, MF, 1F and one large limestone block. Pit, SD 0.38m; strong brown (M) sand, 1F.
		The clean nature of the fill suggests a natural feature but both plans and sections show that it cut the slot but predated general level 904.
918	2/3	PH, SD 0.06m; light olive brown (M) sandy silt loam, IF, CF, MF.
919	2/3	PH, SD 0.15m; .1 mixed light olive brown (M) clay loam and orange brown sand, MF, CF, IF; .2 strong brown sand (M) and loam
920	1	as .1, no inclusions; .3 as .1, no MF. PH, SD 0.13m; .1 mixed red (M) — dark red (M) burnt sand and strong brown (M) sand, CF, IF; .2 dark yellowish brown (M) sand with olive brown silty clay loam patches,
921 (922)	3?	CF, MF, IF. PH, SD 0.38m; reddish (M) yellow - strong brown (M) sand, MF, CF, IF (some burnt). = 598
(923)	_	≈ 904
924	17	?Gully, SD 0.43m; strong brown (M) sand, IF, CF, MF. This feature on the surface initially appeared to extend across 926 but there can be no certainty of this. It certainly predated Phese 2 and it is possible, in spite of the presence of mortar and charcoal flecks, that this was a natural feature.
925	1	PH, SD 0.15m; .1 post pipe? c. 0.20m across, yellowish brown (M) sand, IF, MF; .2 4m .1 and more IF.
926	1	= (954, 864). Foundation trench, SD 0.80m; fills, reddish yellow (M) - strong brown
		(M) sand, IF, CF, MF; strong brown (M) loamy sand, IF; strong brown (M) sand IF, CF, MF. Some evidence of horizontal banding. PHs in foundation trench: .1 SD 0.71m; strong brown (M) - reddish yellow (M) loamy sand, IF, CF, MF; .2 SD 0.60m; as .1; .3 SD 0.50m; as .1; .4 SD 0.55m; as .1; .5 SD c. 0.57m; fill not described; .6 SD 0.50m; yellowish brown (M) loose loamy sand, IF, MF, CF; .7 SD 0.37m; as .1; .8 SD 0.39m; reddish yellow (M) loamy sand, IF,

		CF, MF; .9 SD 0.32m; as .1; .10 SD 0.44m; strong brown (M) loamy wand, IF, CF, MF; .11 SD c. 0.31m; as .1; .12 SD 0.52m; as
		.10; .13 BD 0.47m; partially void,
		remaining fill strong brown (M) - reddish
		yellow (M) loamy sand, IF; .14 BD 0.44m; as
		.1; .15 SD 0.41m; as .10; .16 SD 0.45m; as
		.10; .17 SD 0.50m; as .1; .18 SD 0.72m; as .10.
	•	Finds: HAR-5551, 5552.
927	1	PH, SD 0.31m; .1 yellowish brown (M) sand,
92 8	3?	MF, CF, IF; .2 as .1 but fewer MF. PH, SD 0.34m; strong brown (M) sand, MF
720	.	(concentrated in bottom 0.10m of fill), IF,
		CF, LF.
929	3?	PH. SD 0.29m; strong brown (M) mandy
,	•	silt loam, IF, CF, MF and one LF on
		surface.
930	3?	PH, SD 0.14m; .1 post pipe? c. 0.15m
		across: brown (M) - dark yellowish brown
		(M) sandy silt loam, CF; .2 strong brown
		(M) sandy loam, MF, CF, IF.
(931)		= 233
932	37	PH, SD 0.10m; mixed yellowish brown (M)
		sand and plive brown (M) milty clay loam,
		CF, MF, IF.
933	3/4	PH/Pit, SD 0.18m; dark greyish brown (M)
		sandy clay loam, many mortar lumps, IF, LF,
		sandstone fragments at bottom (some burnt),
734	37	CF. PH, SD 0.11m; .1 mixed strong brown (M)
737	⇔ r	sand and plive brown (M) clay loam, IF
		(some hurnt) CF, MF and lumps; .2 as above
		without inclusions.
(935)		= 233
934	37	PH, SD 0.14m; mixed strong brown (M) sand
		and light olive brown (M) - dark greyish
		brown (M) clay loam, CF, MF, IF.
937	3?	PH, SD 0.10m; mixed strong brown (M) sand
		and light olive brown (M) clay loam, MF and
	_	lumps, CF, IF.
93 8	35	PH, SD 0.22m; .1 mixed brownish yellow
		(M) sand and olive brown silty clay loam,
		CF and IF; .2 yellowish brown (M) sand,
		with wilt loam patches as .l1 is
93 9	3?	possibly animal disturbance. PH, SD 0.11m; .1 mixed yellowish brown
727	3.5	(M) mand and olive brown - dark grayish
		brown clay loam, MF, CF, IF; .2 yellowish
		brown (M) sand, IF, CF, MF.
940	1	PH. SD 0.41m; .1 post pipe? c. 0.07m
	_	across, yellowish brown (M) mand, MF, IF,
		CF; .2 mixed yellowish brown (M) sand and
		strong brown (M) sand, IF, MF, CF; _3
		strong brown (M) sand IF, CF, MF and large
		mass of mortar in bottom 0.6m of fill.

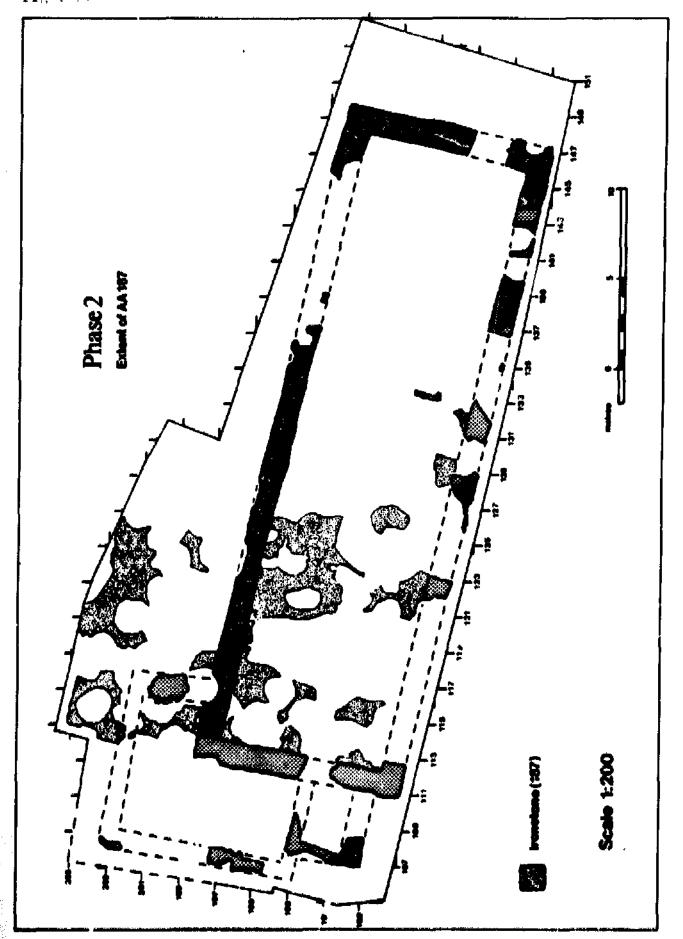
941	1	PH, SD 0.36m; .1 post pipe c. 0.14m across, strong brown (M) sand, IF, MF, CF; .2, as .1 with more IF; .3 as .2 (.2 and .3
942	1	packing around .1). PH, SD 0.11m; dark olive brown (M) sandy
943	17	clay loam, CF, 1F, MF. Cuts 978. ?PH, SD 0.02m; mixed yellowish brown (M) sand and light olive brown (M) clay loam, MF. IF, CF.
9 * \$	3?	PM, SD 0.10m; light clive brown (M) sandy silt loam, MF, CF, IF.
94%	3?	PH, SD 0.31m; strong brown (M) mand with patches of light plive brown (M) milty clay
3 <i>6</i>	37	lowm, If, MF. PH? SD Q.OAm; strong brown (M) sand with
**************************************	31	olive brown - dark grayish brown silty clay loam patches, off-white asky silt loam, MF, CF, IF.
(947)		233?
(948)		= 904 = 904
(949) 950	1	PH, BD 0.22m; .1 post pipe c. 0.17m across.
700	•	strong brown (M) sand, IF, CF; .2 as .1 with MF; .3 as .22 and .3 packing around .1.
951	3/4Ai	Pit? SD 0.32m; yellowish brown (M) sand, CF, MF, IF.
952	3 ?	Prit/PH, SD 0.10m; .1 olive brown (M) clay loam, prange sand and off-white - grey ashy clay patches, CF, MF, IF; .2 yellowish brown (M) sand, CF, MF, IF.
(953)		- 410
(954)		= 479, 926
95 5	1	FH, SD 0.19m; .1 post pipe c. 0.18m across, strong brown (M) milty sand, CF, IF; .2 strong brown (M) compact sand, IF, CF, MF; .3 as .22 and .3 packing around .1.
73 6	17	PH. SD 0.07m; .1 post pipe c. 0.13m across, strong brown (M) - reddish yellow (M) loamy sand (with much clive brown (M) clay loam), MF. IF, SF; .2 as .1, more compact; .3 as .22 and .3 possibly packing around .1.
957	í.	PH, SD 0.20m; strong brown (M) loamy sand with patches of bright orange sand, IF, MF, CF.
758	1	PH, SD 0.14; strong brown (M) loamy sand with patches of bright brange sand, IF, MF.
9 59	17	PGully, SD 0.23m; reddish yellow (M) - strong brown (M) loamy sand (much affected by root action etc), IF, MF, CF. Very probably natural feature or possibly
960	1	prohistoric. PH. 8D 0.18m; mixed strong brown (M) mand and light plive brown (M) eleg loam, CF, MF and lumps, IF. Overlaid by 904.
761	1	PH, SD 0.30m; .1 strung brown (M) silty

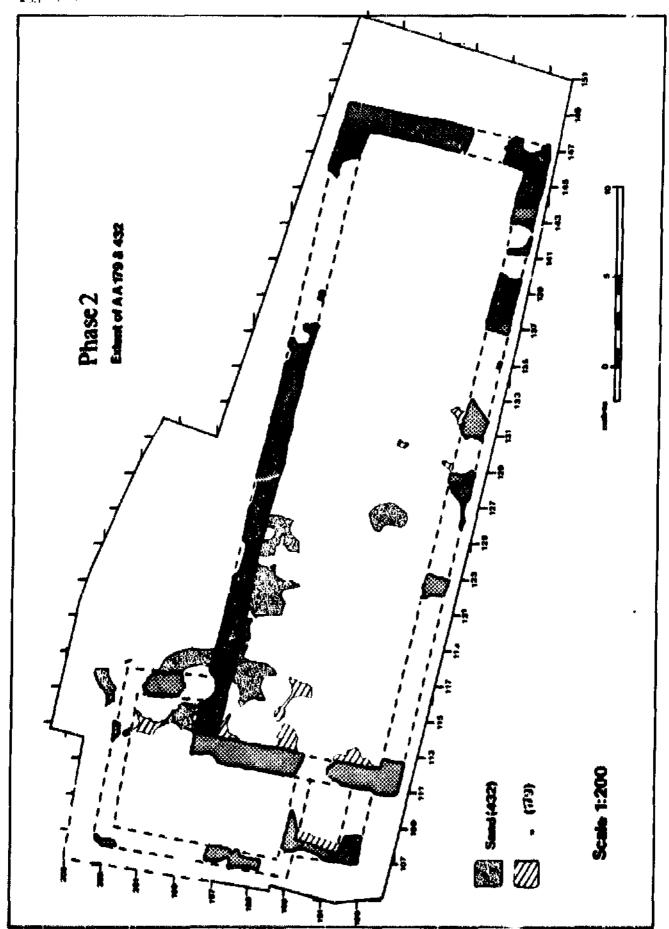
		mand, MF, CF, IF; .2 as .1, more IF, fewer
=40	•	MF.
962	1	PH, SD 0.10m; strong brown (M) silty sand, If, CF, MF.
963	1	PH, SD 0.36m; .1 post pipe, 0.21m across,
	_	strong brown (M) sand, IF, CF, MF; .2 as
		.1, more IF; .3 as .22 and .3 packing
		for .1.
(964)		≈ 726
945	17	?Gully, SD 0.07m; reddish yellow (M) -
		strong brown (M) loamy sand (much affected
		by root action etc), IF and gravel, CF.
		Very probably natural feature or possibly
		prehistoric.
966	17	?Gully, SD c. 0.08m; mixed strong brown (M)
,00	- •	loamy sand and olive brown (M) clay loam,
		CF. MF. IF. Possibly natural feature or
		animal disturbance.
(967)	- +	with night water parish.
(968)	= +	
767	1	Depression? SD 0.20m; strong brown (M)
7137	•	loamy mand (much affected by root action
		etc), IF, CF, MF. An area of mortar and
		plive brown (M) clay loam, c. 0.03m deep,
		occurred in the surface of 769.
970	1?	?PH. SD 0.07m; strong brown (M) silty
,,,	• 1	sand containing patches of reddish yellow
		(M) sand, IF:
(971)		THE PARTY AT A
9 72	1	PH, BD 0.46m; .i. post pipe c. 0.18m
	_	across, strong brown (M) - brown (M) loamy
		mand, IF (more in lower half of fill), CF,
		MF; .2, as .1 with more IF; .3, as .22
		and .3 packing for .1
973	1	PH, SD 0.25m; .1 possible post pipe c.
,,,	•	0.16m across, strong brown (M) loamy sand,
		IF, CF, MF; .2 and .3, strung brown (M)
		mand, mure IF, CF, MF2 and .3 nacking
		for .1.
974	1	PH, SD 0.11m; mixed plive brown (M) milty
	-	clay loam and strong brown (M) sand, MF,
		CF, IF.
975	1	PH, SD 0.14ms .1 post pipe c. 0.13m across.
	_	mixed brownish yellow (M) - strong brown
		(M) very compact loamy sand; .2 strong
		brown (M) mand, IF, CF, MF; .3, as .1 with
		IF, MF, CF4 .2 and .3 packing for .1.
976	1	?PH, SD 0.26m; mixed strong brown (M) -
-	-	reddish yellow (M) loamy sand, IF, MF, CF.
477	1	PH, SD 0.17mg .1 post pipe? 0.17m across;
		compact mixed plive brown (M) clay loam and
		strong brown (M) - reddish yellow (M) loamy
		send, CF, JF, MF; .2 yellowish brown (M)
		loamy sand, IF, CF, MF; .3 as .2.
778	1	?PH, SD 0.17m; mixed strong brown (M) -
		reddish vellow (M) loamy mand, IF, CF, MF.

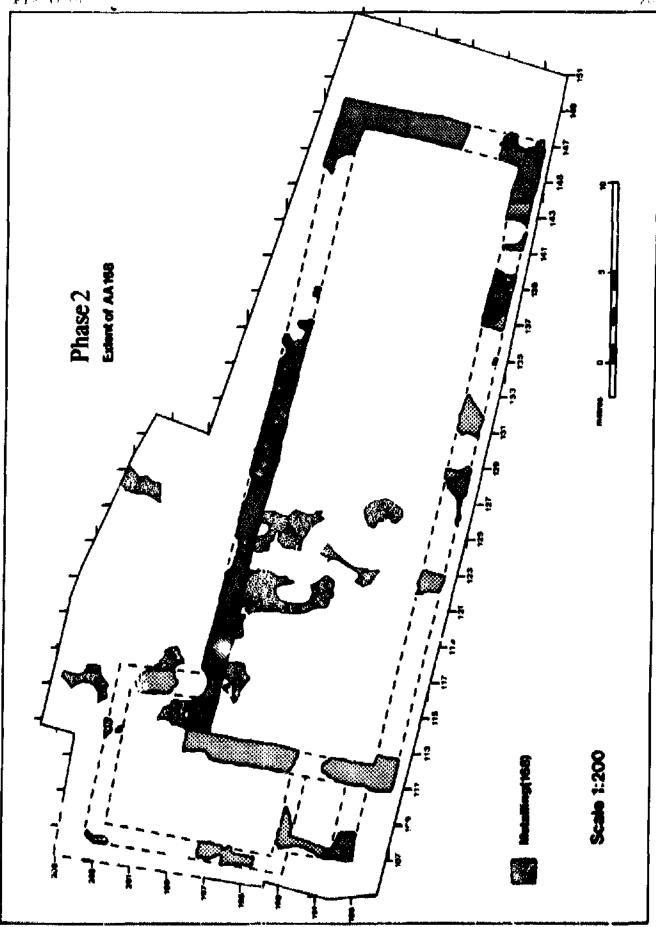
979	prob 1	PH, BD 0.14m; .1 strong brown (M) silty sand, IF, MF, CF; .2 mixed strong brown (M) - reddish yellow (M) sand, much IF, CF and
980	1	MF. PH? SD 0.24m; .i brown (M) wilty wand, 1F, MF, CF; .2 yellowish brown (M) loamy wand, IF, MF, CF.
781	3/4	PH/Pit, SD 0.05m; .1 strong brown (M) send and dark grayish brown (M) clay loam, IF, CF, MF; .2 as .1 but with clay loam predominant.
(982) 983	17	= 233 Disturbed area, SD 0.13m; strong brown (M) loamy sand with patches of reddish yellow (M) sand and grey ashy silt loam, MF, CF, IF, LF. The irregular bottom and mixed contents of this feature suggest that it was perhaps an animal disturbance.
(984) 995	1	= + PH, BD 0.13m; brown (M) loamy sand, IF, MF,
780	•	CF.
986	3/4	Pit? SD c. 0.45m; .1 olive brown (M) clay loam, MF and lumps, CF, 1F and send patches; .2 silt loam as .1, LF; .3 silt loam as .1 with more send, fewer MF; .4 as .2; .5 as .3; .6 light olive brown - clive brown (M) silty clay loam, as .1; .7 as .3; .8 silt loam as .6; .7 mixed brown (M) silt loam as .6; .7 mixed brown (M) silt loam, MF, CF, 1F.
96 7	prob i	?PH, SD 0.19m; mixed strong brown (M) - yellowish brown (M) loamy sand and light clive brown (M) silt loam, CF, MF, IF.
986	prob 1	PH, SD 0.23m; .1 post pipe? c. 0.17m across; strong brown (M) - reddish yellow (M) - yellow (M) losmy mand, MF; .2, as .1 IF; .3 as .22 and .3 packing for .1.
997	prob 1	PH, 89 0.19m; .1 post pipe c. 0.12m across, strong brown (M) - raddish yellow (M) loamy sand, IF, CF, MF; .2 as .1 with more IF, MF; .3 as .2; .2 and .3 packing for .1.
99 0	prob i	Pit, SD 0.45m; strong brown (M) loamy sand, IF, CF, MF.
9 % 1	37	PH, SD 0.17m; mixed dark gray(sh brown (M) silty clay loam, and orange sand, CF, IF, MF.
992 (493)	1	?m (993). ?PH or ?PHs identified in plan but removed during subsequent clearing before full excavation; could not have murvived more than a few centlestres. ?m 992
774	prob i	PH, SD c. 0.24m .1 strong brown (M)
117	·	reddish vellow (M) loamy sand, IF, CF; .2 yellow-brownish yellow (M) loamy sand, IF.
995	37	PH, SD O.iOm; strong brown (M) loamy sand with many patches of light clive brown (M)

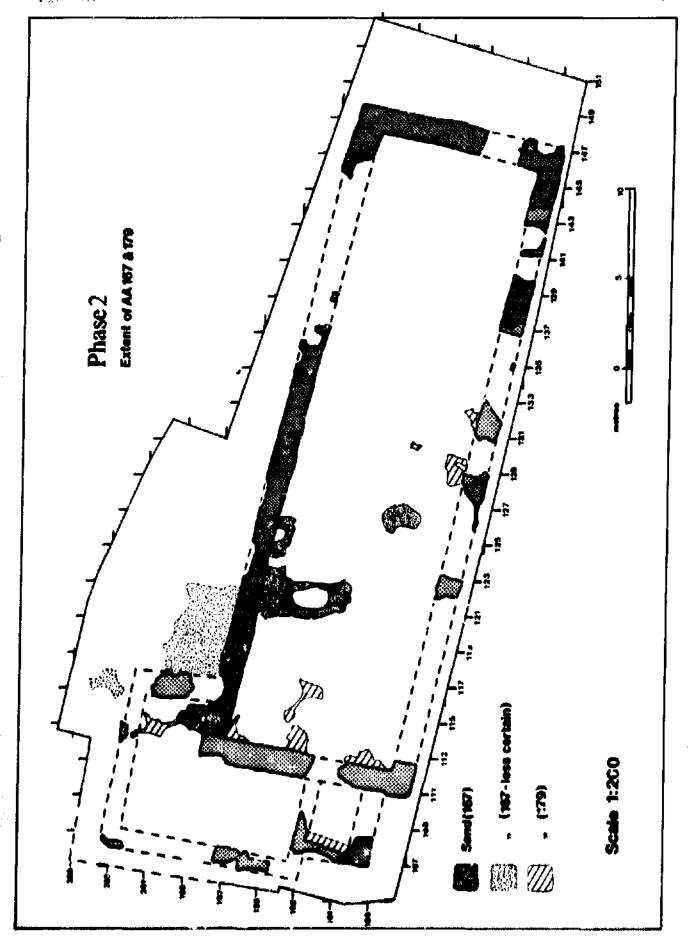
996	37	clay loam, IF, CF, MF. PH, SD 0.15m; mixed reddish yellow (M)
997	3?	sand and light plive brown (M) silt loam, CF, MF, IF. PH, SD 0.13m; light plive brown (M) silt
		loam and reddish yellow (M) sand, CF, MF, IF.
778	17	7PH, 8D 0.09m; strong brown (M) loamy sand, 1F, CF, MF.
* **	37	PH, 8D 0.25m; mixed light olive brown (M) silt loam and strong brown (M) sand, CF, MF, IF.
1000	3?	Pit, SD 0.44m; mixed light plive brown (M) - plive brown (M) clay loam and strong brown (M) sand, CF, morter lumps and IF.
1001	37	Pit, SD 0.38m; mixed plive brown (M) clay loam, and etrong brown (M) eand, IF, CF, MF.
(1002)		≠ 233
1003	37	PM, SD 0.21m; light olive brown (M) milt loam containing some orange mand, IF, CF, MF.
1004	3?	PH, SD 0.03m; light olive brown (M) silt loam with patches of reddish yellow (M) sand, if, CF, MF.
1005	3?	PH. SD C.COm: light plive brown (M) silt loam with some prange sand, CF, MF, IF.
1006	3?	PH, BD c. Q.28m; yellowish brown (M) lowey mand, MF, CM, IF.
1007	37	PH, SD 0.19m; light plive brown (M) wilt loam, MF, CF, IF.
1008	37	PH. SD 0.12m; light plive brown (M) silt loam with some orange sand, MF, CF, IF.
1009	3?	PM, ND 0.00m; light olive brown (M) milt loam with some orange sand, IF, CF, MF.
1010	37	PM, ED C.25m; olive brown 'M) wilt loam with raddish yellow (M) sand at adge, large amount of CF, IF (some burnt), MF.
1011	3?	PH? SD 0.07m; mixed olive brown (M) silty loam and reddish yellow (M) sand, IF, CF, MF.
(1012)		• •
	1	7PH, SD 0.07m; strong brown (M) loamy mand with patches of reddish yellow (M) mand,
1014		IF, CF, MF. Cremation remains? Depression, SD 0.14m; strong brown (M) loamy sand, IF, CF. Bome small amount of home but the small collared urn within the depression (Pottery no 1)
1015	17	was probably in accessory vessel. ?PH, SD 0.1:m; strong brown (M) loamy sand, CF, IF, MF.
1016	1?	?PH, SD 0.07m; strong brown (M) loamy sand with patches of reddish yellow (M) sand (much affected by root action etc), IF (uccasionally burnt), CF, MF.

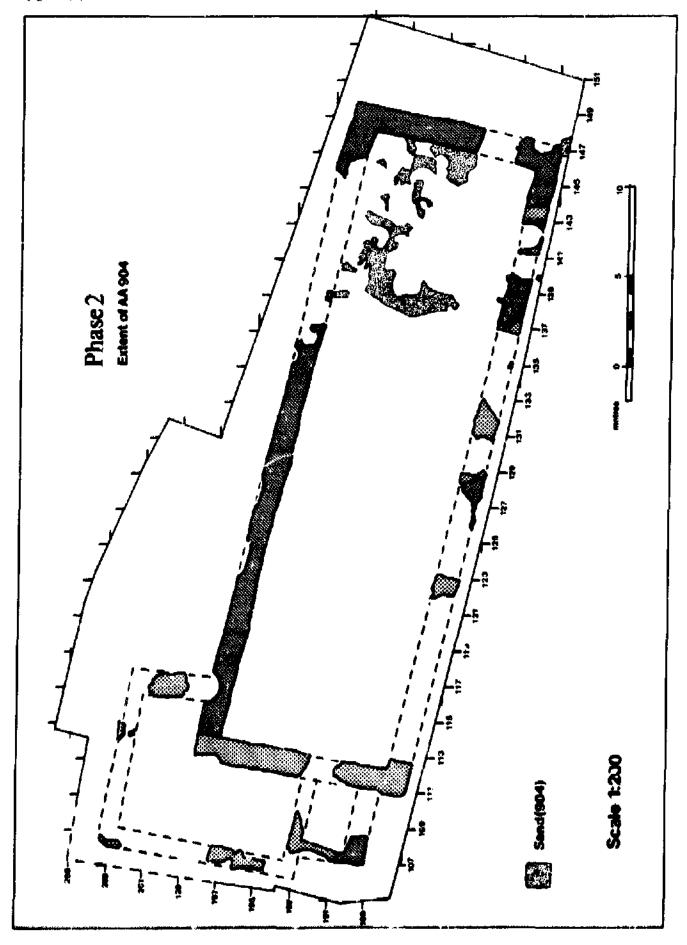
1017	17	?PH, SD 0.11m; brown (M) loamy mand, CF, IF (some burnt). MF.
1018	17	7PH, SD 0.04m; mixed reddish yellow (M) and strong brown (M) loamy mand, CF, MF, IF.
		Probably natural feature or animal disturbance.
(1019)		= 904
(1020)		= 233
(1021)		- 233
1100	1	?PH, SD 0.16m; brown (M) loamy sand, If, CF, MF.
1101	1	Layer, yellowish brown (M) fine sandy loam, numerous CF. Probably equivalent of
	4.5	439, 440, 641, 689, 766.1.
1102	17	?PH, SD 0.07m; strong brown (M) loamy sand, IF.
1103	17	?PH, BD 0.07m; strong brown (M) loamy sand, if.
(1104)		= 233
1105	1	PH. BD Q.15m; brown (M) loamy sand, CF, IF.
1106	1	PH, BD 0.20m; strong brown (M) silty sand, if and gravel.
(1107)		233
1100	1	PH, SD 0.19m; brown (M) sandy loam, MF, CF, IF.
(1109)		= 428
(1110)		- +
1111	1	PH, SD 0.17m; yellowish brown (M) losmy mand, IF, CF.
1112	3/4	PH/SH, SD 0.27m; Hark yellowish brown (M) sand surrounded by dark brown (M) loam, CF, MF.
(1113)		= 127.4
1114	17	?Pit, SD 0.46m; strong brown (M), IF, CF, occasional flint publish and gravel.











THE PREHISTORIC POTTERY by J L Humble

A Bronze Age collared urn was recovered during investigation of a small sub-circular earth cut depression (AA1014: diameter c. 0.48m; surviving depth 0.14m) situated within the mastern annexe of the middle Saxon timber hall. The vessel was lying upon its side and the uppermost portions of the neck and collar were missing, presumably as a result of later ground disturbance which may also have dislocated the urn from an originally upright or inverted position. The depression was cut by a Saxon posthole (AA922) and two medieval pits (AA564, AA581): the fill of the posthole contained a small shard deriving from the collar of the urn.

The tripartite vessel is coil built, the base having been propared as a single piece. A section through the wall displays a succession of diagonal coil junctions and an extra coil used to form the distinctive collar is apparent. The urn is self-slipped and the exterior surface is strong brown (7.5YR 5/6) in colour. The interior face of the collar is a similar colour, but an abrupt transition in colour of the surface below the collar and neck to a dark grey (10YR 4/1), suggests that the urn was probably fired in an inverted position with at least a partial obstruction of air flow to the interior.

With the aid of a X20 binocular microscope inclusions present in the clay matrix of the fabric were identifie. As: common poorly sorted angular and rounded ironstone (minute - 2mm); infrequent poorly sorted angular and rounded quartz and iron ore (minute - 0.1mm); rare grog (?) and rare organic impressions, probably chaff. The clay and all of the inclusions would have been locally available. Fragmented sections of the vessel exhibit a hackly, uneven fracture.

Dimensions of the collared urn are: diameter of mouth: 135mm; diameter of shoulder: 147mm; diameter of base: 71mm; height: 161mm. The vessel is slightly warped in profile, but it is difficult to assess if this occurred during firing or is the result of post-depositional compaction.

The rim is simple and flattened and the collar (41mm in depth) is straight in external profile and decorated with an incised triple herringbone motif, flanked at the base of the collar by a single split herringbone bordering element. The neck (45mm in depth) is also of straight external profile, angled from collar to shoulder, and incised with a filled triangle motif. It would appear that the same pointed instrument was used to form the linear incisions on both collar and neck. Quality and accuracy of this decoration is variable and in places it could best be described as crudely executed. The shoulder displays a circumferential row of fingertip impressions. Small, crescentric grooves formed by a fingernail are visible either in or above most of the impressions. The body is undecorated and the junction of the body and the relatively thick base constitutes a simple angle.

The morphological characteristics of the rim, coller and decoration permit a typological definition of the vessel as a Form II tripartite collered urn of the primary series (Longworth

1984, 21, 27).

Detailed examination of the soil content of the urn revealed that worm tracks had introduced minute fragments of charcos! and calcined bone (pers. comm. H Bamford). Thuse were presumably transported from nearby cremation remains, with the urn serving as an accessory vessel. In addition to the urn, the soil fill of the depression contained a small amount of charcosl, and a fragment of cattle rib which say be intrusive. None of the adjacent, later deposits contained any residual cremated bone, obvious pyre debris or artefacts which might potentially have functioned as associated grave furniture, although it is acknowledged that any such material may have been entirely removed.

Radiocarbon assay has demonstrated that the collared urn tradition was in existence between c. 1800-1100 bc (Longworth 1984, 79), dates which can approximately be equated with the early and middle phases of the Bronze Age. The primary series was undoubtedly the first to emerge and become established, but a chronological overlap of uncertain duration between the primary and secondary series has been confirmed by radiocarbon determinations (ibid). Longworth suggests that in Northampto shire, where collared urns are relatively well represented the high proportion of primary series vessels may reflect a greater population density in the early Bronze Age than later, or alternatively the protracted survival of the primary series for a comparatively longer period (Longworth 1984, 27). Consequently, the forwarding of a more precise date for the St Peter's Gardens urn is rendered impossible.

No other prehistoric pottery was recovered from the site, but some of the flint implements may be ascribed to the later neolithic/warly Bronze Age and much of the chronologically indeterminate worked flint is almost certainly contemporary (Humble, (M)3/98). Although no other features or deposits at St Peter's Gardens can be reliably dated as prehistoric, the adjacent excavations at St Peter's Street recorded & c. 70m length of a substantial curving ditch of prehistoric origin. The antiquity of the few minute shards of pottery contained by the ditch fills could not be determined, but the concentration of worked flints both within and on the flanks of the ditch implies an early date (Williams 1979, 13). The remainder of the ditch lies beyond the western baulk of the previous excavations but it is reasonable to postulate a total circular plan of approximately 30-35m in diameter, thus placing the structure in the category of ring ditch.

Between Northampton and Gundle in the north-east of the county there are 25 known examples of ring ditches, 12 berrows, a neolithic mortuary enclosure at Aldwincle, a flat urnfield at Gundle and least nine other possible berrow mounds or ring ditches, all situated less than 1.5km distant from the River Nene (RCHM 1975; RCHM 1979). It should be noted that ring ditches are not necessarily either denuded berrows or Bronze Age in date; a synthesis of recent research has demonstrated their development within the middle neolithic (Kinnes 1976) and circular but plans of any period may leave similar crop markings.

The known concentration of these sites in the immediate Nene

hinterland is in part a reflection of the comparatively detailed archaeological attention which the river valley has received and also a genuine preference of prehistoric occupation for lighter sandy and gravel soils, particularly with a riverside location. Nevertheless, to a large extent this is offset by the undoubted loss of similar sites through gravel quarrying and modern development as well as the strong likelihood that many sites are yet to be discovered. Recent discoveries include the St Pater's finds and a Beaker burial at Ashton, Oundle (pers. coms. B Dix), both only brought to light through the excavation of much later settlement.

The vast majority of ring ditch and barrow sites in Northamptonshire are unexcavated, but collared urns have been recovered at Aldwingle (Jackson 1976) and Dundle (Brown 1969), and many other collared urns which lack contextual details (Longworth 1984, 230-234) may derive from these types of site. St Peter's Gardens would have afforded a prominent location, situated on a well drained knoll overlooking the confluence of the Nene and Northern Mater. The evidence is slight and speculation is necessarily tentative, but it would appear that the collared urn is an accessory vessel to a deliberate funerary interment, perhaps associated with a barrow or other circular ditched monument of the second millenium BC.

THE ROMAN POTTERY by Varian Dunham

A small quantity of residual Roman pottery was present (total 34 shards), the majority of which was found in Phases 1-3. This is in keeping with the evidence from St Peter's Street (McCarthy 1979, 151-229) where only 16 shards were recovered, mainly in contexts of Saxon date.

Greywares account for the majority of the material, although shards of shally ware, Samian ware, Nana Valley colour-coated ware and mortaria were also present. All the material was heavily abraded, and no pieces diagnostic of form were recovered.

Fabric Code	Common Name	Origin	Date Range
RG	Greywares	?Local	1st-4th century
RM	Mortaria	?Local	1st-4th century
RNVCC	Nene Valley colour coat	Nene Valley	2nd-4th c en tury
RS	Sami an	Imported	1st-2nd century
RSH	Shelly ware	?Local	1st-4th century
RU	Indeterminate	?Local	1st-4th century
Phase	Context	Code	Number of Sherds
1	V 87	RG RS	4
	AA233	RG	2
	HH233	RNVCC	1
	AA465. 1	RO	1
	AA638.3	RU	i
	AA690	RG	i
		RSH	i
1/2	W116	RS	ī
	Y179	RU	ī
	Y194	RG	1
	Y237	RG	ī
2	W32	RG	2
	Ad187	RU	1
3	AA123.1	RNVCC	1
	AA206	RU	1
3?	AA311	RB	1
3/4A1	267	RU	1
4Ai	Y 6 2	R8	1
	127	RU	1
	AA66	RS	1
	AA374	RU	1
4A11	Y31	RM	1
4A1/4B11	AA519	RU	1
U/8	+	R8	2
		RSH	1
		RU	2

THE SAXION POTTERY by Varian Denham

PHASES 1-3

(i) CODIFIED BUMMARY OF POTTERY

Example:

A9909 47 T1 A2 B4 AB36 12 T1(1) ABC2 N1 AE83

Layer AA909: 47 shords

Fabric T1: 2 cooking pot, 4 bowl, 36 body sherds; see ill. no 12 Fabric T1(1): 2 body sherds

Fabric N1: 3 sherds from a cooking pot or storage jar

Code of vessel forms in Phases 1-3:

A cooking pots
A4 decorated urns

B bowls

92 spouted bowls

C juga

C4 pitchers

D lasps

E8 storage jars

U unknown

Combinations indicate uncertainty as to vessel type. eg AR = cooking pot or bowl.

Phase 1

Sunken-Featured Buildings

240	.39	SIA	A92	
		S181	A <u>B</u> €	
		S1B(2)	AŢ ABB	16
		S1B(3)	AB <u>14</u>	
		S18 (4)	AB2	
		81C(1)	AB Ī	
		81C(2)	APŠ	
		9U	AÐ <u>Z</u>	
Z63	9	81B(2)	AB3	
		81B(3)	AL AB3	22
		81C(2)	AB2	

AA438	3	S1A S1C(1)	AB <u>1</u> AB <u>2</u>	27
AA441	13	S1A S1B(1) S1B(2) S1B(3) S1B(4) S1BU S1C(1) 7S1C(1)	AB1 AB2 AB1 AB2 AB1 A1 AB1 B1 AB2 AB1	26
Main Timber	Haji I			
AA410	17	81A S1B(1) S1B(2) S1B(3) S1C(1) S1C(2) SU U	AB2 AB2 A1 AB1 A2 AB2 AB2 AB1 AB3 U1	15 18
AA423	9	S1A S1B(1) S1B(2) S1B(3) S1GU SU	AB1 A1 AB1 AB1 AB1 U1 AB1 U2	11
AA431	2	S1B(1)	A <u>2</u>	ខ
AA465.1	4	RG S1A S1B(1) S1B(2)	U <u>1</u> AB <u>1</u> AB <u>1</u>	7
AA 479	2	S1B(1) S1B(3)	A <u>1</u> A <u>B</u> 1	5
AA926	4	S1B(1) S1BU S1C(1)	AB <u>1</u> U <u>1</u> A B <u>2</u>	
General Spil	Layer			
V87	44	RG RS S1B(1) S1B(2) S1B(3) S1B(4) S1C(1) S1C(2)	U4 U1 A4B1 ABEB1 AB4 AB14 AB5 AB2 AB1 AB1	4,13

		93 93/T1 95 SU	AB2 AB <u>1</u> AB <u>1</u> U <u>1</u>	
AA233	46	RB RNVCC 51A 518(1) 518(2) 518(2)/52 518(3)	UZ ABIO ABI ABI ABI ABI ABI ABI	2
		S1B(3)/S2 ?S1B(3) S1B(4) S1C(1) ?S1C(1)	AB1 A4B± AB2 ABS AB1	25
		810(2) 82 83/11 ?85	AB <u>T</u> A <u>1</u> AB <u>2</u> AB <u>2</u> ABT	28 32
Other Deposit	- <u>e</u>	:55	HP.I.	يتوف
W169	1	S1B(3)	AB1	
Y220	1	51B(2)	AB1	
Y223	1	518(1)	AB <u>1</u>	
Y225	2	S1B(2) S1B(3)	AB <u>1</u> AB <u>1</u>	
7233	1	S1B(1)	Al	6
Y263	1	918(3)	AB <u>1</u>	
Y27 0	1	S3/T1	A <u>1</u>	
AA181	1	53/T1	AB <u>1</u>	
AA409	1	518(3)	AB1	
AA483	1	810(1)	AB <u>1</u>	
AP 4.3	1	S1B(1)	AB <u>1</u>	
AA637	2	\$16(2) \$10(1)	A481 A81	14
AA638.3	5	RU 918(3) 918U 9U	U <u>1</u> AB <u>1</u> AB <u>1</u>	
AA661	1	S1B(1)	AB <u>1</u>	

EAAAA	2	S18(3) S1C(1)	ав <u>і</u> Ав <u>і</u>	24
AA664	8	S1A S1B(1) S1B(2) S1B(3) SU	A <u>91</u> A <u>1</u> A <u>91</u> A <u>91</u> AB <u>1</u>	7, 12
BaaAA	3	5:8(3) 5:0(1) 5U	A <u>1</u> AB <u>1</u> U <u>1</u>	17
AA677	1	S1B(3)	AB <u>1</u>	
₽ 868 9.2	1	B1B(3)	AB <u>1</u>	
AA690	3	?R/S3/T1 RG S1B(1)	U <u>1</u> U <u>1</u> AB <u>1</u>	
AA57B	1	S18U	AB <u>1</u>	
AA726	1	S1B(2)	AB1	
AA730	3	S18(2) S18U	AD <u>2</u> A <u>B1</u>	
AA740	1	SIBU	AB <u>i</u>	
AA744	1	S1B(2)	AB <u>1</u>	
A6745	2	S1B (3) SU	AB <u>1</u> AB <u>1</u>	
AA753	1	S1B(2)	សន <u>រ</u>	
AA767	1	ua: s	6.47 12.50 24.50	
A6755	z ;	S18(2) S18(3)/S2	ABI ABI	
AA98	ı	519(1)	AB <u>I</u>	
Frobably Phase	1			
AA455	3	S19(2) S18(3)	AB <u>1</u> AB <u>2</u>	
AA6E2	ı	u	ABC <u>I</u>	
AA777	í	S1B(1)	AB1	

Probably Phas	Probably Phase 1, Possibly Phase 2				
X3 9	1	U	U <u>1</u>		
Phase 1/2					
AA633	1	?95	A <u>1</u>	34	
W147	2	518(3) 818(4)	AB <u>1</u> AB <u>1</u>		
W163	3	R G S1C(1) S1C(2)	บ <u>เ</u> AB <u>1</u> AB <u>1</u>		
W187	2	S1EU W18	0 <u>1</u>		
Y178	1	S1B(3)/S2	AR <u>I</u>		
Y179	1	RU	1		
Y184	2	RG S1B (3)	<u>u1</u> <u>(1</u>	20	
¥209	İ	S18(E)	AB1		
Y237	ţ	RG	U <u>I</u>		
Phase 2					
Stone Hall					
AA127	1	S1B(3)	AB1		
Stone Hall Ext	ensi	c n			
AA151.2	1	W1	A <u>1</u>		
∨68	1	T11	₩ <u>ī</u>		
Make Up tevels	For	Phase 2			
AA 167	6	518(1) 518(3) 510(1) 510(2) 55 755	AB1 AB1 AB1 AB1 AB1		
AA168	1	S1B(1)	AB <u>1</u>		
AA432	8	S1B(1) S1B(3)	ABS ABI		

		S1C(1) T1(1)	AB <u>i</u> AB <u>i</u>	
AA187	4	RU \$18(1) \$18(2) ?55	U <u>1</u> A <u>1</u> AB <u>1</u> AB <u>1</u>	33
Other Deposi	ts			
W32	8	RG S1B(1) S1B(2) S1B(3)	AB <u>1</u> AB <u>1</u> AB <u>1</u>	
W50	1	S1B(3)	B <u>1</u>	21
W89	5	91A 51B(3) T1	/ 33 AB <u>2</u> AB <u>2</u>	
W127	1	S1B(3)	AB <u>1</u>	
R A904	3	318(2) 518()	A8 <u>2</u> U <u>1</u>	
Phase 2?				
AA109	1	S1B(3)	AB1	
AA105	1	W1	AB <u>1</u>	

Phase 3

Robber of Stone Hall

W14	61	T1(1)	AB <u>1</u>	
		Т1	A2 AB11 ABC2	
		W1 (2)	AB <u>1</u>	
		W1	A5 AB33	
		%W1/X1(1)/Y	AB1 ABCE1 U2	60
		W3 (2)	ABÎ	
		?W32	AB <u>I</u>	
AA123.1	109	RNVCC	U1	
111111111111111111111111111111111111111	2 4.7	SIA	ค <u>ี</u> ธิ์1	
		S1B(2)	AB1	
		S1B(3)	AB2	
		SIB	AB1	
		9 3	AB3	
		93/T1		
		SU	B1 AB24 U3	
		T1(1)	AT AB23	
		T1(3)	9 <u>7</u> ABI	
			_ ~	

		T1 (4) T1 W1 (2) W1 ?W1 ?W1/X (1) /Y X1 (1)	AB2 A2 AB22 ABC1 AB1 AB6 AD1 ABC1 ABC5 U4	చ్6
AA123.2	24	SU T1(1) T1(3) T1 T1/2 W1 W3(2) X1(1)	AB1 A1 AB4 AB2 B2 AB4 ABC4 AB3 A1 ABC2	
AA123.3	28	T1(1) T1(2) T1(3) T1 W1 W3(2) W5 W34 X1(1) ?W1/Xt(1)/Y	A1 A04 AB1 AB6 AB2 A1 AB6 AB1 AB1 AB3 ABC1 A1	
AA127.4	19	T1(1) T1(2) T1 T1/2 ?W5 X1(1)	AB5 A1 AB4 ABC1 ABC1 ABC1	
9A123.™	5	W1 ?W5	AB <u>3 ABC81</u> ABC <u>1</u>	
BEATH B	10	93 T1 (3) W1 W3 (3) PW1/X1 (1)/Y	?B2E8 <u>1</u> AB <u>1</u> AB <u>4</u> A <u>1</u> AFC1 2	
AA123.7	1	SIA	AB <u>1</u>	
AA206	55	RU S3 S3/T1 T1(1) T1(3) T1 W1(2)	U1 AB2 AB4 AB2 AR1 AB1 A1 AB2	19

W1	A6 AB21
?W1/W3	AÏ
?W1/X_ (Y	Α <u>Ι</u>
W3 (3)	A <u>B</u> 1
W32	A1 AB4
W34	AB4 ~~
?W1/X1(1)/Y	ABĈ1
U	U1

Phase 3

Other Deposits

V40	2	T1 ?W1/X1(1)/Y	AB1 ABC1	
W12	23	T1 W1 W3(2)	A4 B1 AB16 AB1 AB1	
W13	41	S3/T1 T1 W1 W3(2) W47	AB5 A1 AB10 AB21 AB2 AB2	
W24	2	T1	A9 <u>2</u>	
W28	12	T1 T1/2 W1 ?W1	A <u>1</u> AB <u>4</u> A <u>2</u> AB <u>3</u> AB <u>1</u>	44 47 53, 54
W29	5	T1 T1/2	985 985	
W36	19	63/T1 T1 W1	A1 A84 A810 A84	29
W41	12	T1 W1	A <u>6</u> AB <u>5</u> AB <u>1</u>	45
W 42	9	T1 T1/2 W4	A8 <u>6</u> A8 <u>62</u> D <u>1</u>	71
W43	9	S3 T1 W1 W32	AB <u>1</u> AB <u>1</u> AB <u>1</u>	
X16 Y27	2 5	T1/2 B19(3) T1(1)	ABC <u>2</u> AB <u>1</u> AB <u>4</u>	

Y39	113	51B(2) 51B(3) T1(1) T1(2) T1(3) T1(1/3) T1 T1/2 T2 V5 W1 ?W1/X1(1)/Y W3(2) W3(3) W15 W34 X1(1) U	A81 A82 A84 A85 A4 B2 A833 B1 A89 A1 B1 A8C11 A8C1 A8C1 A3 A815 A1 A87 A81 C1 A81 C2 U1	37, 38 52 61
Y43	1	X1(1)	U <u>1</u>	
Y44	2	T1 (2/4) T1	AB <u>1</u> AB <u>1</u>	
Y55	7 7	S1B(3) S3/T1 T1(1) T1(2) T1(4) T1 T1/2 V5 W1 ?W1/X1(1)/Y W3(1) W3(2) W3(2) W3? X1(1) U	A481 A2 A85 A83 B1 A83 A2 B1 A2 A818 A8C5 A81 A8C3 A84 A8C2 A81 A8C1 A8C1 A85 A81 C4 AC2 A8C2	17 30, 31 59
Y 5 8	23	SU T1(1) T1(2) T1 T1/2 W3(3) W11(1)/X1(1)	AB1 AB1 AB1 AB2 AB1 ABC3 ABC1	
Y83	8	SU T1(1) T1(3) T1	AB1 A1 B3 AB3	35 40
Y102	2	T1(1) W32	AB <u>1</u> AB <u>1</u>	

Y116	7	518(3) SU T1(3) T1 ?W1/X1(1)/Y X1(1)	AB1 AB1 AB2 ABC1 C1	
Y130	50	S18(1) S18(2) S18(4) S3/T1 T1(1) T1(2) T1 W1 W1(1)/X1(1)	AB1 AB2 AB1 AB3 A5 B1 AB20 A1 AB3 AB4 A1 EB1 AB2 AB3 ABC2	57
Y135	35	S1B(2) ?W1/X1(1/.7 W3(2) W54	AB1 A5 AB-1 ABC24 AB2 A1 AB1	59, 62- 66
Y158	12	T1(1) T1(2) T1(3) T1/2 W34	A3 AB1 AB1 A1 AB4 ABC1 AB1	39 48
Y142	1	M3 (3)	AB <u>1</u>	
725	1.2	T1	AB <u>12</u>	
Z30	11	S18(3)/S2 S3/T1 T1(1) T1(2) T1(3) W1	AB <u>1</u> A <u>2</u> A <u>1</u> AB <u>1</u> AB <u>1</u> AB <u>4</u> A <u>1</u>	3 6
232	2	\$2 W1	AB <u>1</u>	
Z34	.2	T1 (1)	AB2	
2.4 0	7	SU T1(1) T1(1/3) T1 W1 W54 X1(1)	AB1 B1 AB1 AB1 AB1 AB1 AB1	
AA7	55	T1 (1)	A2 B1 AB9	

		T1(3/4) T1(4) T1 W1 W3(2) W32	AB1 AB6 A1 B1 AB22 A1 AB9 AB1 AE81 AB1	46
AA9	49	T1(1/3) T1(2) T1(4) T1 W1 W32	A3 A832 A1 A81 82 A82 A87 A81	41
AA16	5	T1(!) T1(3) T1 W1	AB1 A2 A1 AB1	
AA2B	6	T1(1) T1(3) T1 T1/2 W1	AB <u>1</u> A <u>1</u> AB <u>1</u> ABC <u>2</u> A <u>1</u>	
AA29	3	T1/2 91	ADEB <u>1</u> A <u>1</u> A <u>B</u> 1	
AA30	4	Ti(i) Ti TW1	A <u>1</u> AB <u>2</u> AB <u>1</u>	
AA56	4	T1 T1/2	AB2 81 ABC1	
AASS	11	T1(3) W1 ?W1/k1(1)/Y W3(3) W34	AB1 A1 AB4 ABC3 A1 AB1	69
A/164	Ł,	T1 (1) U	AB <u>5</u> 1	
AA70	31	T1(t) T1(4) T1 T1/E W1	A1 ABL1 B4 ABC3 ABC3 ADC3 A1 AB5	
AA74 AA77	21	T1 (3) F1 (1) T1 (2) T1 (3) T1 T1/2	ADZ ABZ ABZ AL ADD ADJ	

AA78	33	T1(1) T1(2) T1(3) T1(4) T1 W1 W47 X1(1)	A1 91 A89 A1 81 A81 A81 92 A1 81 A84 A85 A81 821 A803	73
AA79.2	13	T1(2) T1 W1 X1(1)	A <u>1</u> AB <u>1</u> A <u>1</u> AB <u>3</u> ABC <u>2</u>	
AA103	18	T1(1) T1(3) W1 W32 W34	A <u>1</u> AB <u>2</u> AB <u>1</u> AB <u>9</u> AB <u>4</u> AB <u>1</u>	
AA114	7	SU T1(1) T1(3) W1	AP1 AB2 A1 AB1 A1 AB1	
AAJ36	12	51B(3) T1(1) T1 W1(3) W1 2W1/X1(1)/Y	AB1 AB1 AB1 AB6 AB6	50 67
AA140	3	W1(3) W1 U	ABC1 AB <u>1</u> 1	
AA145	1	W1/W3	AB <u>I</u>	
AA150	1	S3/T1	AB <u>t</u>	
AA152	12	SU T1(1) T1 T1/2 W1	AB1 A1_AB5 AB2 U1 A1_AD1	
AA 155	14	S1E(4) Ti W1	₩ <u>2</u> ₩ <u>8</u> ₩7	
AA403	10	S18(3) SU T1(1) "1(3) T1 W1	AB1 AB2 AB1 A1 AB3 AB1	23

		U	<u>1</u>	
AA523	29	T1 (4) T1 W1 W2 W3 (3)	A <u>1</u> AB <u>19</u> A <u>1</u> A <u>5</u> A <u>1</u> A <u>1</u> B <u>1</u>	42 55 68 70
AA545	19	T1(1) T1(2) T1 W1 W32	AB <u>2</u> AB <u>1</u> A <u>1</u> AB <u>1</u> A <u>1</u> AB <u>1</u> ABC <u>11</u> AB <u>1</u>	
AA566	4	T1(1)	B <u>4</u>	
Probably Pha	se 3			
W145	1	518(3)	ABI	
AA25	41	T1 T1(1) T1(2) T1(3/4) T1(4) T1/2 T2 W1 W3(3) X1(1)	A1 AB12 A1 AB0 AB1 B1 AB1 B1 AB1 AB1 AB7 AB1 AB04	53.1
AA555	4	†1 †1 †1/2	A1 ĀB2 ABC1	
AA556	6	T1/2 VB X1(1)	ABC <u>4</u> U <u>1</u> ABC <u>1</u>	
Phase 37				
AA139	2	W1 S19(1)	AB1 A1	10
AA149	1	ប	<u>1</u>	
AA162.2	20	S1B(4) T1/2	ΛΒ <u>1</u> Αυ <u>1</u>	
AA217	2	7(1)	AEBI ADI	43
AA311	2	FG S1B (3) /S2	U <u>1</u> AB <u>1</u>	
AA351	ı	T1(1)	ABI	

AASSO	2	T1(1) U	AB <u>1</u> U <u>1</u>
AA598	1	S10(1)	AB <u>1</u>
AA599	2	71 W3(3)	8 <u>1</u> AB <u>1</u>
AA938	1	X1(1)	U <u>i</u>
AA952	1	SIBU	AB <u>1</u>
AA1000	1	Wi	AB <u>1</u>
AA1 006	1	518(2)	AB <u>1</u>

(11) GAZETTEER OF SAXON POTTERY (400-11/1200)

Report code: M100: Greyfrians report (Gryspeerdt 1978)

> M115: St Peter's Street report (McCarthy 1979)

M115X: St Peter's Gardens report (Denham, this report)

M139: Chalk Lane report (Gryspeerdt 1981)

M178: Marefair report (Gryspeerdt 1979)

M185: College Street report (Gryspeerdt 1982)

M351: Derngate report (Shaw and Denham 1984)

M403: The Riding report (Denham 1984b)

M407: St James' Square report (Denham 1983)

M443: Black Lion Hill report (Denham

forthcoming a)

F.76: Brian Hill report (Denham 1984d)

FABRIC 91A

e A

<u>Occurrence</u>

St Peter's Street, Marefair, Chalk Lane, Black Lion Hill, Gregory Street, St Peter's Gardens.

Abundance

Minor ware: 0-15% of early/middle Saxon assemblages. Macroscopic Characteristics

Hand-made.

Hand, fairly smooth to very hansh (especially internally, granitic inclusions protrading from surfaces, 3-9mm thick. Wet-hand finish, wiping and burnishing all evident. Docasional

chaff and weed marks on surfaces.

Pfunerary wares with stamped and linear decoration. Cooking pots with simple curved rims and slightly sagging bases. Rare opright and pouched lugs. Conical bowls.

Core and surfaces generally black N2/0, but also grey N5/0 and reddish brown 5YR 4/4.

Petrological Description

Moderate to abundant, angular, ill-sorted granite, chiefly 0.8-2mm up to 6mm.*

Sparse to moderate, angular, ill-sorted feldspar (mainly plagioclase), chiefly 0.5-2.5mm.

Sparse, ill-sorted mica flakes, chiefly 0.1-2.5mm up to 3mm. Moderate to abundant, sub-angular to well-rounded, ill-sorted quartz, chiefly 0.3-0.5mm up to 2.5mm.*

Sparse to moderate, submangular, illmsorted metaquartzite, chiefly 0.5-0.8mm up to 2.5mm. Rare to sparse sub-rounded sandstone, up to 3mm.

Rare sub-rounded ironstone and iron are, up to 3mm.

Very rare limestone, up to 3mm.

Rare carbonised chaff and seeds.

General Comments

c. 400-900

Probably non-local.

Similar pottery found in Leics and Munts (Walker 1978, 224-9). Wide distribution in Northants (Gryspeerdt 1981, 31). Undertain whether source of granite is in Leics or in local Boulder Clay, but the former possibility is favoured. Igneous erratics noted at Great Oxendon (Poole et al 1968, 60). Mountsorrel granite also noted in stone fabric of Brixworth Church (Sutherland 1977).

See also: Williams 1977, 84-91.

Previously Fublished Discussion

M115: 155 M139: (M)48

876: (M) The Saxon Pottery

Illustrations

M139: 7, 17, 20-24

Ml13X: 2, 3

- Granite as seen through a X20 binocular microscoper crystals of grey-white quartz, pink to grey feldspan and black biotite. Petrological descriptions intergrowth of quartz, feldspan (predominantly zoned plagioclase, but also potassium feldspan and perthite) and biotite 'fresh', but sometimes decayed to green chlorite. Also present in small quantities: hornblende, apatite and iron one. On account of the 'fresh' biotite and quantity of quartz and plagioclase feldspan, a Mountsornel source is considered most likely (pers. comm. M Le Bas).
- Size, rounding and sorting of quarts varies considerably between samples.

FABRIC SIR(1)

Occurrence Chalk Lane, Black Lion Hill, Brian Hill, St Peter's Gardens. Abundance Major/minor ware: 10-30% of early/middle Saxon assemblages. Macroscopic Characteristics

Hand-made.

Hard, smooth to rough, 3-9mm thick.

Frequently wiped or burnished on one or both surfaces. Bases are heavily fingered.

?Funerary wares, including a biconical urn and a bossed rim. Stamped and linear incised sherds. Cooking pots. Upright lug, ?small pierced lug. Small bowls. ?Brazier sherd (see Jones 1975, 411~3).

Core and surfaces black N2/0, rare reddish brown patches SYR 5/4.

Petrological Description

Abundant sub-angular to rounded ill-sorted quartz, chiefly 0.1-0.3mm up to 2mm.

Sparse to moderate sub-angular metaquarizite, up to 2mm.

Rare sub-angular microcline feldspar, up to 1.5m.

Rare flint.

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Rare sub-rounded hematite, up to 20m.

Rare examples with abundant chaff and seed inclusions.

General Comments

c. 400-900

Probably local.

Common fabric within SIR.

Previously Published Discussion

M137: (M) 48

<u>Illustrations</u>

M139: 1, 2, 3, 5, 8, 10, 15, 19, 25-32

P76: 1-3

M115X: 4-13

FABRIC SIB(2)

Occurrence

Chalk Lane, Briar Hill, Black Lion Hill, St Peter's Gardens. Abundance

Minor ware: 5-20% of early/middle Saxon assemblages.

Macroscupic Characteristics

Hand-made.

Hard, rough to hamsh, S isom thic). (Harshest fabric within ${\bf S1B}$).

Infrequent smoothing and burnishing.

Rare fingernail impressed decoration.

?Lug/handle. Cooking pots.

Core and surfaces very dark grey 5YR 3/1 to dark meddish brown 5YR 3/3.

Petrological Description

Abundant sub-rounded to rounded fairly well sorted quartz,

chiefly 0.2-0.4mm up to imm.

Rane to sparse sub-angular ill-sorted metaquartzate, up to Tom. Spanse sub angular ill-sorted sandstone, up to Tom.

Rare flint.

Rane sub-rounded hematite.

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Rare examples with abundant chaff and seed inclusions.

General Comments
c. 400-900
Probably local.
Fairly common SIR fabric.
Previously Published Discussion
M139: (M) 48
Ilustrations
M139: 18
P76: 4, 5
M443: 1
M115X: 14-16

FABRIC S1B(3)

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Occurrence Chalk Lane, Briar Hill, Black Lion Hill, St Pater's Gardens. Abundance Major/minor ware: 10-30% of early/middle Saxon assemblages. Macroscopic Characteristics Hand-made. Hard, rough to very smooth, 3-9mm thick. Fraquently wiped or burnished on one or both surfaces. ?Funerary wares with stamped and linear decoration. Cooking pots. Pouched lug. Small bowls. Core and surfaces black N2/0, rare reddish brown patches SYR 4/4. Petrological Description Abundant angular to sub-rounded well-sorted quartz, chiefly 0.1-0.3mm up to 0.6mm. Sparse sub-angular ill-sorted quartz-commented sandstone (often ferruginous), chiefly 0.8-1.5, up to 2mm. Raru flint. Rore examples with abundant chaff and seed inclusions. General Comments c. 400-900 Probably local. This fabric can be very fine. Common SIB fabric. Previously Published Discussion M139: (M)49 111ustrations M139: 4, 6, 33-36 M443; 3 P761 6-11 M115X: 17~25

FABRIC 918 (4)

Occurrence Chalk Lane, Brian Hill, St Seter's Gandens, Abundance Minor ware: (5% of early/middle Saxon assemblages,

Macroscopic Characteristics

HAND-MACE.

Hard, fairly smooth, 3 9mm thick.

Frequently wiped, less often burnished.

?Funerary ware. Single sherd with linear incised decoration.

Cooking pots with simple rins.

Core and surfaces black N2/0 to brown 7.5YR 4/2.

Petrological Description

Rare to moderate sub-angular to rounded ill-sorted quartz, chiefly 0.1-0.5mm up to 2mm.

Sparse sub-angular to rounded ill-sorted sandstone, up to 2.5mm.

Sparse to moderate sub-angular to rounded limestone (sometimes

fossiliferous), chiefly 1-2mm up to 3mm.

Sparse to moderate sub-rounded hematite. Rare microcline feldspar.

Rare flint.

General Comments

c. 400-400

Probably local.

Rarm SIB fabric.

Previously Published Discussion

M1372 (M) 49

H137: (5, 37

FARRIC SIR(5)

<u>Dicurrence</u>

Briar Hill.

Abundance

Minor ware: 32% of early/middle Saxon assemblage on the one

Macroscope Characteristics

Hand-made.

Hard, rough to smooth, 4 10mm thick.

Commonly miped or amouthed on one of both surfaces.

One simple curved cooking pot rim. No other form diagnostic sherds.

Core and surfaces black N2/0, occasionally light meddish brown 5YR 6/3 - 5YR 6/4.

Petrological Description

Moderate to abundant angular poorly-sorted quartz, minute to O.lmm up to O.Bom.

Infrequent rounded polycrystalling quartz, 0.5 2mm.

Rafe microcline feldspar, 0.5mm.

Race minute muscovite:

Rame grog pellets, 1.5-2mm.

Very name bornblende and olivine, 0.1 0.2mm.

General Comments

c. 400 -900

Probably rade in locality of Brian Hill, Northampton.

Previously Published Discussion

P76: (M) The Saxon Pottery

<u>Illustrations</u>

P76: 12

FABRIC S18(4)

Occurrence Briar Hill

Abundance

>8% of early/middle Saxon assemblage on the one site.

Macroscopic Characteristics

Hand-made.

Hard, rough to smooth, 4-10am thick.

Rarely wiped or burnished, commonly unfinished.

?woking pot sherds.

Core and surfaces black N2/0, occasionally light reddish brown 5YR 6/3 - 5YR 6/4.

Petrological Description

Abundant well-sorted angular quartz, minute to 0.1mm.

frequent grass temper, 0.5-3mm.

Frequent grog pellets, 0.1-1mm.

Rare to moderate sub-rounded quartz, 0.5-1mm.

Rare angular motaquartzite, imm.

Rare granite, 1-2mm, comprising intergrowth of quartz, feldspar (heavily altered plagioclase and microcline) and 'fresh' biotite.

Rare 'detached' granitic minera's (heavily altered microcline, plagicalise, hornblend and angular Thematite, 0.1-0.3mm). General Comments

c. 400-900

Uncertain whether source of granite is in Lexus or in local Boulder Clay, but the latter is more probable: grog and grass have clearly been added as temper whilst the comparatively small size of the granitic inclusions would suggest that these may have been natural constituents of the clay.

Previously Published Discussion P76: (M) The Baxon Pottery

<u>Illustrations</u>

PARRIC SIC(1)

Octur, ence

Chalk Lane, Briar Hill, St Peter's Gardens.

<u>Abundance</u>

Minor ware: 2-10% of early/middle Saxon assemblages.

Macroscopic Characteristics

Hand-made.

Hard, fairly smooth to very rough surfaces, 5-10mm thick. Sometimes wiped internally, but only rarely burnished. No decorated sherds. Cooking pots with simple upright or flattened evented rims and thirl flat bases.

Core and surfaces black N2/0, sometimes reddish brown margins 5YR 4/4.

C.casional carbonised seeds (chiefly barley) evident in fracture.

<u>Petrological</u> Description

Rare to moderate, sub-rounded to rounded, well-sorted quartz, chiefly 0.2-0.5mm up to 3mm.

Moderate to abundant angular to sub-rounded poorly-sorted ironstone, chiefly 0.5-1.5mm up to 3mm.

Rare metaquartzite, up to 2mm.

Rame muscovite.

General Comments

c. 400-900

Probably local.

Previously Published Discussion

M139: (M)53

Illustrations

M137: 38, 39

M115X: 26, 27

FABRIC SIC(2)

Occurrence

Chalk Lane, Briar Hill, Black Lion Hill, St Peter's Gardens.

Abundance

Minor ware: <2% of early/middle Saxon assemblages.

Macroscopic Characteristics

Hand-made.

Hard, rough, 4-10mm thick.

Infrequently wiped and smothed, rarely with burnished external slip.

?Cooking pots.

Core and surfaces black N2/0 un reddish brown 5YR 4/4.

Petrological Description

Abundant, angular to rounded, well-sorted quartz, chiefly 0.05-0.2mm up to imm.

Sparse to moderate sub-rounded ironstone or iron one, chiefly minute to 0.2mm up to 0.4mm.

Rare metaquartzite,

Very rare flint.

Genera<u>l Comments</u>

c. 400~900

?Local

Previously Published Discussion

M139: (M) 53

Illustrations

FABRIC S2

Occurrence

Chalk Lane, St Peter's Street, Manefair, St Peter's Gardens, Black Lion Hill.

Abundance

Minor ware: >5% of early/middle Saxon assemblages.

Macroscopic Characteristics

Hand-made.

Fairly hard, smooth, 5-12mm thick.

Surfaces marked with numerous grass, chaff and seed impressions, also evident in fracture. Frequently well smoothed on interior and exterior, more rarely burnished on exterior.

No decorated wares, apart from one stamped sherd in S1A which also contains some chaff. Cooking pots with simple upright or slightly inturned rims. Few recognisable forms.

Core and surfaces black N2/O or reddish yellow 5YR 4/6-7/6.

Petrological Description

Abundant elongated chaff and seed impressions, chiefly 3-6mm, up to 10mm.

Majority of seeds are cereal grains, chiefly of Hordeum sp. (barley) and Arena sp. (bat). A few ?couch grass seeds have also been identified (pers. comm. R Carter).

Rare to sparse sub-rounded quartz chiefly 0.2-0.4mm.

General Comments

'Grass/chaff-tempered.'

c. 400-900 (possibly a later starting date).

?Non-local.

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See: Brown 1976, 191-3.

Previously Published Discussion

M115: 52 M139: (M)55 Illustrations M178: 1

M139: 9 M115X: 28

FABRIC 53

Occurrence

Chalk Lane, St Peter's Street, Marefair, Black Lion Hill, St Peter's Gardens.

<u>Abundance</u>

Minor ware: <2% of early/middle Saxon pottery assemblages.

Macroscopic Characteristics

Hand-made.

Fairly hard, smooth to rough, 5 10mm.

75) ipped or wet-hand finished external surfaces.

Cooking pots with flattened rims and opright (ugs. Pow)s. Core dark grey N4/0, surfaces light brown 7.5YR 6/4.

Petrological Description

Inclusions similar to 11, but less we'll conted, with more variable quartz content.

General Communits

7a. 650 9**6**50

Probably local.

Similarity to Massy Group III wares (Addyman 1965, 47 56, 619

Freviously Published Pracussion

Mi15: 155 Mi39: (M)55 <u>Illustrations</u> Mi15: 1, 3, 426, 522 Mi39: 41-44

FABRIC SS

Occurrence Chalk Lane, St Peter's Street, ?St Peter's Gardens. Abundance <1% of early/middle Saxon assemblages.</p> Macroscopic Characteristics Hand-made, finished on turntable? Hard, smooth, 8-12mm thick. Smoothed exterior, knife-trimmed exterior of base. Cooking pots with simple everted rims. One sagging base. Core light grey N7/0, surfaces light brown to pinkish gray 7.5YR 6/4-7/2. Petrological Lescription Abundant sub-rounded to rounded well-sorted quartz, chiefly 0.1~0.4mm up to 0.8mm. Sparse rounded ferruginous sandstone, up to 4mm. Bare rounded calcareous grains, up to 3.5mm. Sparse sub-rounded hematite, chiefly 0.5mm. General Comments ?lpswich type ware. c. 650-850 See: West 1964, 233-329 Previously Fublished Discussion M115: 156 M139: (H)56 Illustrations M115: 140 M139: 40 M115X: 785: 32-34

FABRIC 53/11

Occurrence
Chalk Lane, St Peter's Street, St James' Square, Black Line
Hill, St Peter's Gardens.
Abundance
Minor ware: <5% of Jamon assemblages.
Macroscopic Characteristics
Hand-made/namely wheel-thoown.
Fairly hand, smooth to rough, 4-10mm thick.
78lipped on wet-hard firsthed external and internal surfaces.
Cooking pots with evented on flattened rime and upright logs on bar lips. Storage jars with log handles, rancly with thumbed decoration. Powls.
Come grey N4/0, surfaces light brown 7.548 6/4.

Petrological Description

Inclusions similar to T1 but coarser, less well sorted, with more variable quartz content.

General Comments

2c. 650-1100

Probably of local manufacture, representing a transitional stage between S3 and T1. Similarity to Maxey Group III wares (Addyman 1965, 47-58, Fig 14) and coarser products of St Neots-type ware. Previously Published Discussion

M407: 13

Illustrations

M407: 1-3

M115X: 29-31, (M) 74-77.

FABRIC T1

Occurrence

Chalk Lane, St Peter's Street, Dergnate, St James' Square, The Riding, St Peter's Gardens, Marefair, Greyfriars, Black Lion Hill.

Abundance

Major ware: 40-95% of late Saxon assemblages.

Macroscopic Characteristics

Chiefly wheel thrown.

Fairly soft, smooth, 4-7mm thick.

Distinctive speckled white surfaces sometimes bear a wet-hand finish or thin slip.

Cooking pots, with name diamond or square mottched mouletting. Small bowls, frequently with inturned or hammer-head rims. Spouted bowls. Deep bowls. Shallow dishes. Lamps. Hand-made storage jars with thumbed applied strips.

Core black to grey N2/0-N6/0, surfaces vary from black N2/0, reddish brown 5YR 5/3, light brown 7.5YR 6/4, to weak red 10Y 4/3.

Petrological Description

Abundant, well - to ill-sorted platelike shells and angular to sub-rounded fossiliferous limestone, including brypzoa, chiefly 0.5-lmm up to 3mm.

Rare sub-rounded quartz, chiefly 0.3-0.5mm.

Rare sub-rounded hematite, chiefly 0.5-1mm.

Diversity within the fabric is chiefly due to variation in the sorting of the calcareous inclusions.

General Comments

St Neots-type ware.

c. 850-1100

Locally produced, probably from numerous sources.

Ti is the principal late Saxon fabric and makes up 40-95% of the pottery in the 850 1100 period, commonly 200%.

As petrological analysis and neutron activation analysis has not proved helpful in identifying different wares within the St Neots-type ware tradition a subdivision based upon variation within methods of manufacture, forms, and surface trustment has been proposed. Insufficient ventically stratified contents within Phase 3 at St Peter's Gardens has prohibited the

establishment of a chronological framework for the sub-groups, but tentative suggestions have been put forward and it is noped that these can be tested by work on assemblages from Black Lion Hill and Gregory Street, Northampton (Denham, forthcoming). It is probable that the sub-groups represent different kilns operating in the locality at various times during the late Saxon period. It is likely that all the kilns had broadly similar traditions, but variety is apparent in manufacturing processes and forms produced.

Previously Published Discussion

M115: 156, 226-8, 230-240

M139: 115, :M)59

M178: (M)86

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M407: 13-16

Illustrations

Numerous examples in the following reports: MII5, MI78, MI39, M443, and M407, MII5X.

For a representative sample see M115X 35-46 and (M) 78-98.

Subdivisions of St Neots-type Ware

FABRIC T1(1)

Macroscopic Characteristics

Chiefly wheel made.

Fairly soft, smooth, notably thin walled, 3-6mm thick. Distinctive speckled white appearance, soapy textured with a wet-hand finish; infrequently burnished.

Small cooking pots with everted rims and sagging bases.

Core black to grey N2/0-N6/0, surfaces black N2/0.

Petrological Description

A= T1.

General Comments

May be confined to the 10th and 11th centuries. Most notable characteristics: purplish black colour, fine walls.

FABRIC T1(2)

Macroscopic Characteristics

Wheel-made and hand-made.

Soft to harsh, 5-8mm thick. Only rerely smoothed or wiped. Small bowls, cooking pots. Rare rouletted decuration.

Distinctive reddish brown oxidised surfaces SYR 5/3, core grey N4/0.

Petrological Description

As T1

General Comments

May be confined to the 11th mentury, continuing in production during the 12th century.

Most notable characteristics: reddish exterior and interior surfaces.

FABRIC TI(3)

Macroscopic Characteristics

Chiefly wheel-thrown.

Fairly soft, smooth 4-7mm thick.

Soapy texture from wet-hand finish/self-slip.

Abundant small bowls with sharply inturned rims. Rare large straight-sided bowls. ?Cooking pots.

Core black to grey N2/0-N6/0.

Distinctive weak red 10R 5/4 surfaces.

Petrological Description

As TI.

General Comments

Probably confined to later part of T1 date range: c. 10th/11th centuries.

Most notable characteristics: well slipped pink surfaces, small bowls.

FABRIC T1(4)

Macroscopic Characteristics

Chiefly hand-made.

Very soft smooth, laminar, triable, 4-8mm Enick.

Scapy texture from heavily slipped exterior.

Small bowls, Cooking pots. Storage jars with pulled handles.

Distinctive white, grey and light brown surfaces 7.5YR 6/4, core dark grey N4/0.

Petrological Description

As T1

General Comments

May be confined to earlier part of T1 date range, possibly 9/10th century. Most notable characteristics: light colour, thick walls, heavy slip.

FABRIC T1/2

Occurrence

St Peter's Street, Chalk Lane, Derngaue, The Riding, St James' Square, Marefair, Black Lion Hill, St Peter's Gardens.

Abundance

Minor ware: c. 10% during the late Saxon/medieval transitional period.

Macroscopic Characteristics

Hand-made/wheel-made.

Hard to fairly soft, smooth to fairly rough, 4-7mm thick.

Distinctive speckled white surfaces infrequently with a wet-hand finish.

Cooking pots, with simple everted rims and sagging bases. Small bowls with hammer-headed or inturned rims, or wide open-mouthed bowls with simple rims. Jugs with strap handles.

Surfaces vary from light brown 7.5YR 6/4 to reddish brown 5YR 5/3.

Petrological Description

Similar to T1 and T2.

General Comments

T1/2 represents the late Saxon-early medieval pottery transition.

a. 1000-1200.

Previously Published Discussion

M178: (M)86

M407: 14-16

Illustrations

Numerous examples in the following reports:

M115, M115X.

For a representative sample see: M115X (M)99-111.

FABRIC T2

Chalk Lane, St Peter's Street, Derngate, Marefair, Greyfriars, St James' Square, The Riding, Black Lion Hill, St Peter's Gardens.

Abundance

Major ware: up to 90% of early medieval assemblages, and commonly >60%.

Macroscopic Characteristics

Hand-made/wheel-made.

Hard to fairly soft, fairly rough, 4-7mm thick.

Distinctive speckled white surfaces, rarely smoothed.

Large baggy cooking pots with developed rims, with rouletted decoration. Large straight-sided bowls. Jugs with bands of rouletted decoration, sagging bases and developed rims, with strap or red handles, frequently stabbed, thumbed or slashed. Lamps. Dishes.

Core black to grey N2/0-N6/0 to light brown 7.5YR 6/4. Surfaces vary from reddish brown SYR 5/4 to light brown 7.5YR 6/4 to light red 2.5YR 6/6.

Petrological Description

As II but shell and fossiliferous limestone is poorly scrted. chiefly 1-4mm, and quartz content is more variable. General Comments

Ubiquitous early medieval pottery fabric, with mineral suite derived from the locally outcropping Jurassic geology, probably manufactured in many kilms throughout the area (Yardley Hastings, Olney-Hyde, Harrold, Lyveden, Stanion).

c. 1100-1400. Principally a medieval ware but can occur at the end of the late Saxon period.

Previously Published Discussion

M115: 156-157

<u>Illustrations</u>

Numerous illustrations in the following reports:

M115, M443, M351, M403, M115X.

For a representative sample see M351: 3-31, 36-42, 60-62.

FABRIC T11

Occurrence

Chalf Lane, Marefair, St Peter's Street, Black Lion Hill, St Peter's Gardens.

Abundance

Minor ware: <2% of late Saxon assemblage.

Macroscopic Characteristics

Chiefly hand-made, some vessuls finished on a wheel or turntable.

Fairly hand, smooth, 4-7mm thick.

Wet-hand finish or thinly slipped surfaces.

Cooking pots with 'club' or slightly everted rims.

Core black to grey N2/0-N6/0, surfaces black N2/0, margins and interior of 1 vessel 7.5YR 5/2.

Petrological Description

Abundant, well-sorted limestone obliths, chiefly 0.3-0.4mm up to 0.6mm.

Rare to moderate shelly limestone, up to 3mm.

Sparse sub-rounded to rounded quartz, chiefly 0.5, up to 1mm.

Sparse sub-rounded hematite chiefly 0.5mm.

Rare flint.

General Comments

c. 900-1300, but could be later, (pers. comm. M Mellor), 21000-1300

Probably from a Cotswolds source.

Very similar to Oxford fabric AC (pers. comm. M Mellor).

See: Jope and Threlfall 1959, 240-56; Vince 1979, 171-81.

Previously Published Discussion

M115: 157

M139: (M)59

Illustrations

M115: 672

M139: 106-109.

FABRIC VS

Decurrence

Chalk Lane, St Peter's Gardens, Black Lion Hill, St James' Square.

Abundance

Minor ware: <2% of late Saxon assemblages.

Macroscopic Characteristics

Chiefy hand-made, some rims possibly finished on a turntable. Hard, rough 4-7mm.

?Wet-hand finish. Uneven surfaces.

Cooking pots with club rims and sagging bases.

Core and surfaces black N2/0; occasionally reddish brown SYR 5/4.

Petrological Description

Abundant, ill-sorted limestone poliths, chiefly 0.3-0.4mm up to 1.5mm.

Moderate platelike shells, sub-rounded limestone and sub-angular

calcite, up to 3mm.

Moderate to abundant sub-rounded to rounded, ill-sorted quartz,

chiefly 0.3-0.3mm up to 1mm.

Rare sub-angular quartzite, up to 1.5mm.

Moderate sub-rounded hematite, up to 1mm.

Rare flint.

General Comments

c. 900-1300

Probably from a Cotswold source.

Previously Published Discussion

M139: (M)60

Illustrations

M407: 51, 52

M139: 110-112

FABRIC VO

Occurrence

Chalk Lang, St Pater's Gardens.

Minor ware <2% of late Saxon assemblages.

Macroscopic Characteristics

Hand-made and wheel-thrown.

Hard, very rough and pimply, 5-7mm thick.

Cooking pots with sharply everted rims, thumbed around lip.

?Yessel with horizontal lug and linear incised decoration.

Common square-notched rouletting.

Core grey N4/0-N7/0, surfaces pinkish grey to pink 7.5YR 6/2 -7.5YR 7/4.

Petrological Description

Moderate to abundant, ill-sorted, sub-rounded to well-rounded quartz, chiefly 0.5-2.5mm up to 2mm.

Sparse to moderate sub-angular quartzite, up to 2mm.

Moderate ill-sorted limestone coliths, up to 1mm, and shelly and sub-rounded limestone, up to 3mm.

Rare to moderate sub-rounded hematite, up to 2.5mm.

Sparse flint.

General Communts

c. 900-1300.

Unknown source, possibly in the Cotswolds, or N. E.

Northamptonshire.

Previously Published Discussion

M139: (M)60.

<u>Illustrations</u>

M139: 113-117

FABRIC WI

Occurrence

St Peter's Street, Chalk Lane, Derngate, St James's Square,

Marefair. Black Lion Hill. St Peter's Gardens.

Abundanc#

Major ware 0-20% of late Saxon assemblage as a whole but commonly up to 40% during 710th century.

Macroscopic Characteristics

Chiefly wheel-thrown.

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Hard, smooth to rough, 3-7mm thick.

Cooking pots, some initially coil-built with upper purtion wheel-finished. Simple everted finely turned rims, heavily scoted to depth of a 12mm probably a result of clamp k*in firing with charcoal fuel. Rough flat crudely trimmed bases, often showing wire marks caused by removal from wheel. Rare rouletting on rim or body. Small bowls, rare spouted bowls. Lamps with pedestal bases. Crucibles. ?Costrel.

Core and surface colours vary: dark grey N4/0, white N8/0, reddish yellow 5YR 6/6 to 7.5YR 6/6.

Petrological Description

Size and sorting of quartz grains and frequency of ironstone inclusions is variable.

Variation in fabric is demonstrated by two categories, although it is unlikely that discrete types existed.

(a) Abundant, sub-angular, well-sorted quartz, minute - 0.2mm. Rare sub-rounded quartz, up to 0.5mm.

Sparse sub-rounded hematite, chiefly 0.3-0.5mm.

(b) Moderate to abundant, sub-angular, well-sorted minute quartz, up to 0.1mm.

Moderate to abundant, sub-rounded to rounded, well-sorted quartz, chiefly 0.4-0.6mm.

Sparse to moderate, sub-rounded, ill-sorted hematite and ironstone, up to 3mm.

Rare to sparse sub-rounded limestone and shell, up to 4mm.

General Comments

Northampton ware

c. 850-1100, but major production probably confined to the 10th century. (Table 12).

Kiln Group in Horsemarket, Northampton. (Williams 1974, 46-56) See McCarthy 1979, 158, 226-7.

Previously Published Discussion

M115: 158

M139: (M)61

M407: (M) 11

Illustrations

Numerous examples in the following reports: M115, M139, M115X. For a representative sample see: M139 : 118-152.

FABRIC W1(2)

Decurrence

Chall: Lane, St Peter's Gardens.

Abundance

Minor ware: <1% of late Saxon assemblage.

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth to rough, 3+7mm thick with characteristic speckled white surface.

?Cooking pots. ?Bowls.

Core and surface grey N4/0.

Patrological Description

As W1(b) but containing moderate to abundant well to ill-sorted platelike @nells and angular to sub-rounded fossiliferous limestone, chiefly 0.5-1mm, up to 3mm.

General Comments

78hell-tempered Northampton ware.

c. 850-1100.

Not identified in kiln group in Horsemarket, Northampton.

Previously Published Discussion

11lustrations

FABRIC W1(3)

Occurrence

¥.

St Peter's Street, Chalk Lane, St Peter's Gardens, ?Northampton Castie, Black Lion Hill.

Abundance:

Minor ware: <1% of late Saxon assemblages.

Macroscopic Characteristics

Wheel thrown.

Hard, smooth to rough, 3 7mm thick.

?Cooking pots, bowls.

Core and surface colours vary, as Wi.

Green and yellow external backly glaze, containing clay

chippings and specks of iron, 2.5YR 5/6.

Petrological Description

As W1 (a)

Beneral Comments

?Glazed Northampton ware.

c. 850-1000.

Not identified in kiln group in Horsemarket, Northampton.

Previously Published Discussion

See shord from Chalk Lane Phase 3A/C, layer 84, (M139: (M)67), classified as fabric X3, which falls within the W1(3) range. Illustrations

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FABRIC W2

Occurrence

St Peter's Street, Marefair, St Feter's Gardens.

Abundance

Minor ware: <1% of late Saxon pottery assemblages in

Northampton.

Macrocsopic Characteristics

Wheel-thrown.

Hard, smooth, 5-10mm thick.

?Wet-hand finished or slipped, giving distinctive black surfaces (often abraded).

Pitcher with D-shaped spout; flat base and thumbed, applied strip decoration.

Core reddish brown 5YR 5/3, surfaces black N2/0.

Petrological Description

Abundant, sub-angular, well-sorted, minute quartz, up to 0.1mm.

Rare, rounded quartz, chiefly 0.2-1.2mm.

Moderate fine mica.

Rare rounded bematite, up to 1.5mm.

General Comments

?Thetford type ware.

c. 850~1200.

This fabric has been identified in E Anglia but is of uncertain origin (pers. comm. S Jennings).

Previously Published Discussion

M115: 158

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M139: (M)62

Illustrations

M115: 632

M139: 156, 157

M115X: 68

FABRIC W3

Occurrence

St James' Square, Marefair, St Feter's Street, St Feter's Gardens, Black Lion Hill.

<u>Abundance</u>

Minor ware: <5% of late Saxon assemblages.

Macroscopic Characteristics

Wheel-thrown.

Very hard, smooth to rough, 4-9mm thick.

?Wet-hand finish.

Cooking pots with curved rims. Storage jars with strap handles and thumbed applied strip decoration. One rim with applied strip and stamped decoration from Black Lion Hill (Denham forthcoming a). Rare painted and incised curvilinear

decoration.

Core and surfaces grey N4/0.

Petrological Description

Great variation in size and sorting of quartz. Sub-divided into W3(1): coarse; W3(2) moderately coarse; W3(3) fine.

Main fabric type is described:

Abundant, sub-angular, ill-sorted quartz, chiefly 0.1-0.3mm.

Moderate sub-rounded to rounded, ill-sorted quartz, chiefly 0.5-0.8mm up to 1mm.

Rare sub-rounded magnetite, up to 0.5mm.

General Comments

Thetford type ware (pers. comm. K Wade).

c. **85**0-1200.

See: Hurst 1957, 29-60.

Previously Published Discussion

H115: 158

M139: (M)62

Illustrations

M115: 33, 353

M178: 9

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M139: 158~161 M443: 12-14

M115X: 49, 70 (M) 209, 210

FABRIC W4

Decurrence

St James' Square, The Riding, Black Lion Hill, St Peter's Gardens.

Abundance

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Minor ware: <1% of late Saxon assemblages.

Macroscopic Chiracteristics

?Wheel-thrown.

Very hard, pimply, 5mm thick.

?Cooking pot body shard. ?Small bowls, crucibles or lamps with rame rouletted decoration.

Core black N3/0, surfaces grey N5/0.

Petrological description

Abundant, sub-rounded to rounded, well-sorted quartz, chiefly 0.3-0.4mm up to 0.5mm.

General Comments

Late Saxon ?c. 1050-1250

?S. Lincs source (pers. comm. L Adams), or possibly Leicestershire.

Previously Published Discussion

M115: 158-159

M139: (M)62

<u>Illustration</u>

M115: 471

FABRIC W5

Occurrence

St Pater's Street, St Peter's Gardens.

Abundance

Minor ware <1% of ?late Saxon/medieval assemblage.

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth, 6-10mm thick.

Form: indeterminate.

Core and surfaces reddish yellow 7.5YR 7/6 with a thin clear glaze, or external burnished slip.

Petrological Description

Abundant poorly-sorted angular quartz, minute to 0.2mm.

Moderate well-sorted rounded quartz, 0.2-0.6mm.

Moderate sub-angular feldspar, 0.2-0.4mm.

Rare poorly-sorted rounded ironstone, 0.1-1mm.

Rare rounded polycrystalline quartz, 0.3mm.

General Comments

Uncertain origin and date, but possibly of local manufacture in the 850-1300 range.

Praviously Published Discussion

M115: 159 Illustrations

FABRIC W32

Occurrence

St Pater's Gardens, Chalk Lane, St Peter's Street.

Abundance

Minor ware (5% of late Saxon assomblages.

Macroscopic Characteristics

Wheel-thrown.

Hard, rough, 3-5mm thick.

Cooking pots with curved rims.

Core and surfaces reddish yellow 5YR 5/6-6/8. Soot blackened exterior of rim and body sherds.

Petrological Description

Abundant, sub-angular to sub-rounded, ill-sorted red or black iron ore/hematite, up to 3mm.

Abundant minute mica flakes.

Rare, sub-rounded, ill-sorted quartz.

Deneral Comments

c. 850-1100

?Local.

Form, fabric and occurrence are similar to W1 and a 10th century date may also be expected.

Previously Published Discussion

M115: 163

M139: (M)63

Illustrations

M115: 228

M139: 153, 154

M115X: (M)252, 253

FABRIC W34

Occurrance

Briar Hill, Chalk Lane, St Peter's Gardens, Black Lion Hill.

Abundance

Minor ware <5% of late Saxon assemblages.

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth, 4-5mm thick.

?Cooking pot body sherds. Spouted bowl.

Core and internal surface black to red N2/0-2.5YR 5/6, external surface black, and well smoothed.

Petrological Description

Abundant, sub-angular, well-sorted quartz, minute - 0.2mm.

Moderate, sub-rounded, ill-sorted quartz, up to 0.5mm.

Sparse, sub-rouried hemtite, up to 0.8mm.

Sparse to moderate minute mica flakes.

General Comments

c. 850-1100
Probably local and a variant of W1.
A 10th century date may also be expected.
Previously Published Discussion
M115: 163
M139: (M)63
Illustrations
P76: 13
M100: 78

FABRIC W36

Occurrence Chalk Lane. Abundance Minor fabric: <1% of late Saxon assemblages. Macroscopic Characteristics Wheel-thrown. Hard, pimply, 4-5mm thick. Cooking pots with curved rims. Core grey N4/0, surfaces dark grey 5YR 4/1. Petrological Description Abundant, sub-rounded, well-sorted quartz, chiefly 0.3-0.6mm. Moderate sub-angular ill-sorted quartzite, up to 1.5mm. Rare rounded calcareous grains, up to 1.2mm. General Comments c. B50-1100 ?Leicester type ware. See: Hebditch 1967-B, 4-9. Previously Published Discussion M139: (M)63 111ustrations M139: 164

FABRIC W47

Occurrence
Derngate, St Peter's Gardens, Black Lion Hill.
Abundance
Minor ware: <1% of late Saxon assemblages.
Macroscopic Characteristics
?Wheel-thrown/hand-made.
Hard, pimply, 4-7mm thick.
?Cooking pots/bowls.
Core black N2/0 - more rarely light brown 7.5YF 6/4.
Surfaces black N2/0 to grey N5/0.
Petrological Description
Moderate well-sorted rounded quartz, 0.3-0.6mm.
Rare angular hematite, 0.1-0.5mm.
Rare grog pellets, 0.3-0.5mm.
Very rare ?feldspar, 0.4mm.

General Comments

Rare fabric of uncertain date and origin. Probably of local or regional manufacture, in the 700-1300 date range. Similarity with Torksey-type wares, but unlikely to originate in Lincolnshire.

Freviously Published Discussion

M115: 164

Illustrations

FABRIC W48

Occurrence

Chalk Lane.

Abundance

Minor ware: <1% of late Saxon assemblages.

Macroscopic Characteristics

?Hand-made/wheel-thrown.

Hard, rough, 5-7mm thick.

?Cooking pot body sherds.

Core grey N6/0, external surface dark reddish grey 5YR 4/2, internal surface reddish brown 5YR 5/4.

Petrological Description

Abundant, sub-rounded to rounded ill-sorted quartz, chiefly 0.4mm up to 1mm.

Moderate sub-rounded, ill-sorted hematite, up to 1.5mm.

Rare flint, up to 2.5mm.

Rare white grog, containing abundant sub-rounded fine quartz grains.

Rare carbonised grass/chaff.

General Comments

?Late Saxon/early medieval.

?900-1300.

Unknown source.

Previously Published Discussion

M139: (M)64 Tilustrations

FADRIC W54

Occurrence

Chalk Lane, St Peter's Gardens.

Abundance

Minor ware: <1% of late Saxon assumblages.

Macroscopic Characteristics

Wheel-thrown.

Hard, pimply 3-4mm thick.

Cooking pots with curved or hollowed rims.

Core and surfaces black N2/0.

Petrological Description

Abundant, sub-rounded, well-sorted quartz, chiefly 0.3mm.

Rare, rounded, ill-sorted quartz, up to 1.5mm.

General Comments
c. 850-1200

Probably of E Anglian origin (pers. comm. L.Adams).

Previously Published Discussion
M139: (M) 64

Illustrations
M139: 162, 163

FABRIC W55

<u>Occurrence</u> Chalk Lang. Abundance Minor ware: <1% of late Saxon assemblages. Macroscopic Characteristics Hand-made and wheel-thrown. Fairly soft, smooth, 4-6mm thick. ?Wet-hand finish (surfaces abraded). ?Storage jar rim (hand-made). Cooking pot rim (wheel-thrown). Core and surfaces 7.5YR 5/2-7/6. Petrological Description Abundant, sub-rounded, ill-sorted quartz, up to 0.6mm. Rare, sub-rounded brown lumps of ?hematite, chiefly 0.5-0.8mm up to 3mm. Rare sub-rounded limestone, up to 3mm. General Comments c. 850-1200 Probably of eastern English origin. Previously Published Discussion M139: (M)64 Illustrations M139: 165, 166

FABRIC X1(1)

Decurrence
Derngate, St Peter's Street, St James' Square, St Peter's
Gardens, Chall Lane, Black Lion Hill.
Abundance
Major/minor ware: 1-15% of late Saxon assemblages.
Macroscopic Characteristics
Wheel-thrown.
Hard, smooth, 3-6mm thick.
Cooking pots with finely turned rims and slightly sagging, knife-trimmed bases. Bowls, occasionally externally glazed, (176) olive 57 5/4. Pitchers with olive and yellow external glaze 57 6/3-107 7/8. 'Collared' vessel. Small vessels, including rilled cups.
Core and surfaces vary from white N8/0 to light brown 7.5YR 6/4 and reddish yellow 7.5YR 7/6.
Petrological Description

Fabric A:

Abundant, sub-angular, well-sorted quartz, chiefly minute - 0.1mm.

Sparse sub-angular to sub-rounded quartz, up to 4mm.

Fabrics E and F:

Abundant angular to sub-angular, well-sorted, minute quartz.

Sparse grains up to 0.3mm.

Rare grains up to 0.6mm.

Fabric G:

Moderate sub-angular, well-sorted quartz, minute - 0.1mm.

Rare sub-rounded grains, up to 0.4mm.

All fabrics contain rare sub-rounded, ill-sorted, hard red and black iron-one containing fine quartz grains.

Fabric groups after Kilmurry 1980, 8-9.

General Comments

Stamford type ware.

c. 850-1250

?800~1100

(Fabric X1(2): Developed Stamford ware: medieval date c.

1150-1250).

Previously Published Discussion

M115: 64

M139: (M)65-66

M407: (M)10

Illustrations

M115: 73, 139, 444-446, 473, 474

M139: 167-180

M17Bi 10-13

M115X: (M)257-263

FABRIC X3

Occurrence

Chalk Lane.

<u>Abundance</u>

Minor ware: <1% of late Saxon assemblage, only found at Chalk Lang.

Macroscopic Characteristics

?Wheel-thrown.

Mard, smooth, 3-5mm thick.

Two small bowls with embossed decoration and overall mottled yellowish brown glaze.

Core white N8/0 and pink 5YR 8/4.

Graze 10YR 5/8-2/2.

Petrological Description

Abundant, sub-angular, well-sorted quartz, minute - 0.2mm.

Rare, sub-rounded quartz, up to 0.5mm.

Rare sub-rounded iron ore chiefly 0.5, up to 2mm.

General Comments

?Late Saxon.

c. 900-1200

Probably same type as the lost Croyland Abbey bowl (Hurst 1958, 54, Pl V) and a small ?late Saxon bowl from London (BM; pers. comm. J Cherry).

Previously Published Discussion M159: (M)67, 68 Illuscrations M139: 181.182

FABRIC Y1

Occurrence Chalk Lane.

Abundance

Minor ware <1% of late Saxon assemblages.

Macroscopic Characteristics

Wheel-thrown.

Hard, pimply, 4mm thick.

Cooking pot with square-notched rouletting on shoulder.

Core and surfaces light brown 7.5YR 6/4.

Soot-blackened external rim and shoulder.

Petrological Description

Abundant, rounded well-sorted quartz, chiefly 0.3-0.4mm up to 0.8mm.

Rare rounded hematite, up to 0.5mm.

General Comments by R Hodges

Probably Saxo-Norman Beauvais were - almost cartainly from the Seine Valley.

Hamwih Class 25 (Hodges 1977, 245).

Previously Published Discu. Hon

M139: (M) 48

Illustrations

M139: 189

FABRIC 72

Documence

Chalk Lane

Abundance

Minor ware. <1% of late Saxon/early medieval, assemblages.

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth, 3mm thick.

Pritcher body sherds, including double thumb-print from base of bandle.

Exterior clear lead glaze, reddish yellow 5%% 6/6.

Come and interior surface light rod 2.5MC 6/8.

Petrological Pescription

Abundant, sub-counded, well sorted quartz, minute - C.25mm.

Rare rounded quartz, up to 0.8mm.

Rang rounded bematite, up to 0.5mm.

General Comments

Nimust certainly an eastern Balgian ware from the Meune Valley (Andenne or Huy) and probably 12-17th century in date Previously Fublished Discussion M139: (M)68
Illustrations

FABRIC Y3

Occurrence Chalk Lang. Abundance Minor ware: <1% of late Saxon/early medieval assemblage. Macroscopic Characteristics Wheel-thrown. Hard, smooth, 4mm thick. Cooking pot/jar rim with external angular condon. Come meddish brown SYR 6/4, surfaces grey brown 10YR 5/2. Petrological Description Abundant, sub-rounded to rounded well-sorted quartz, chiefly ೦.ವ, up to 0.5mm. General Comments Probably 11th/12th cantury Flemish ware. <u>Creviously Published Discussion</u> M139: (M) 68 Illustrations M139: 190

FABRIC ?WI/X1(1)/Y

Occurrence

Fittery of unknown origin which has close affinities with local (WI), Stamford (XI(I)) and ?Beauvais (YI) wares has been found at St Peter's Street, Chalk Lane, and, in greater abundance, at St Peter's Gardens, where it makes up 4% of the late Saxon assemblage.

A description of the material from each excavation is provided together with a synthesis: ((M) 2746-47)

St Peter's Street

Three categories of XI-Y were identified and maganded as potentially either Stamford on Continental wares. (McCarthy 1979, 165). A Northampton origin must now also be considered in view of, firs'ly, the recent identification of glazed sherds of probable Northampton manufacture, which suggests that the material from the Horsemarket kill does not define the full range of W1 products; and, secondly, the recovery of cruciales at St Peter's Gardens in a distinctly Northampton (as opposed to Stamford) form, in the same fabric, and in close association with several red-painted cooking pots of X1-Y type. The original division was as follows:

a) red-painted wares (Mi15 ills, 32,209,210,425).

b) sherds in similar fabric, but without paint (MIIS ill. 208).

c) Grey wares. (unillustrated). The fabric, form and decoration of all three categories fall within the range of the more abundant ?W1/X1(1)/Y material extavated at St Peter's Gardens.

Chalk Lane

Less than 1% of the late Saxon sherds were potentially Continental imports, and these were classified ?Y. Specific examples were examined by thin section. Those detailed below can be seen to fall within the range of fabric and decoration of the ?Wi/Xi(i)/Y wares From St Peter's Gardens.

SF726. Phase 3. Laver D93. ill. 187

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth, c. 5mm thick.

Storage jar with square rim and strap handle with thumbed applied strip.

Core light meddish brown to grey $5.5:674 ext{-N5}/0$, surfaces meddish brown 5YR 6/4.

Petrological Description

Abundant, sub-rounded, well-sorted quartz, up to 0.25mm.

Rare rounded quartz, up to 0.5mm.

Moderate sub-rounded, ill-sorted, iron one up to 1.5mm. General Comments by R Hodges

Coarse Beauvais ware or English imitation.

SF7 U/S Layer B+. Unillustrated.

Macroscopic Characteristics

Wheel-thrown.

Hard, smooth, 4-5mm thick.

Body sherd with stripe of red paint.

Core white NB/O, interior surface pinkish white 7.5YR 8/2, exterior surface pinkish grey 7.5YR 7/2, paint 2.5YR 4/6.

Petrological Description

Abundant, sub-angular, well-sorted quartz, minuto - 0.1mm.

Moderate sub-rounded magnetite, up to 0.5mm.

General Comments by R Hodges

Probably red-painted Beauvais.

Possiby Stamford type ware.

c) SF1222, 1815, and sherds from Phase 3A, E75; Phase 3C, E3; Phase 44, 41; U/S, B+; and U/S, C+, ills, 183-186.

Macroscepic Characteristics

Wheel thrown.

Hard, smooth, 3 5mm thicl.

Cooling pots with squarish or booled rims.

Core white NAZO, interior surface pinkish white 7.5YR B/2, ertenion sout blackens h

Petrological Description

Two fabric types:

 Obundant sub-angular, well sorted quartz, minute Rare, rounded magnetite, up to 0.5mm.

(ii) Abundant, sub-rounded, well-sorted quantz, coisefly 0.2, up to ⊍.6mm.

Rare, rounded iron ore, up to 1mm.

Seneral Comments

Possibly Normandy cooking pots, Hamwih Class II, or Seine Valley variants of this type (Hodges 1977, 243, 249). There is a strong possibility that these are all English products.

St Peter's Bardens

Sherds in contexts from Phases 3, 4 and in unstratified material. Ills. 58-67, crucible ills 1-8, and (N)204-208. 4% of material in late Samon contexts. (47 sherds).

Macroscopic Characteristics

Wheel-thrown.

Fairly hard, smooth, 3-5mm thick.

Cooking pots with squarish or hooked mims, and red brush and finger painted curvilinear and cross-hatch decoration.

Crucible(s) with pedestal (oot,

Come white NB/O, interior and exterior surfaces pinkish white 7.5YR 8/2, paint 2.5YR 4/6.

Petrological Description

Abundant well-sorted angular quartz, minute - 0.1mm.

Moderate to abundant well-sorted sub-angular to sub-rounded quartz, 0.2-0.4mm.

Rare poorly-sorted hematite, minute to 0.3mm.

Rare rounded to angular ironstone, 0.1-1mm.

General Comments

Similar in form to Beauvais and N French wares but there is a strong possibility that these are Stamford ware or more probably the finest products of Northampton potters.

SYNTHESIS OF TWITX1 (1) /Y

It is recommended that sherds described in the gazetteer from St Peter's Street (fabric X1-Y), from Chalk Lane (fabric ?Y) and from St Peter's Gardens (fabric ?W1/X1(1)/Y) should now be placed within the same broad type. In view of the uncertainty of origin (Northampton/Stamford/France) the ?W1/X1(1)/Y fabric code will be adopted for all categories.

Three vessel forms are represented:

- small cooking pots with square or hooked rime, some with red-painted decoration (rim diam: 120-160mm; take diam: 95mm).
- ii) crucibles with a single perestal foot (rim diam: 40 60mm, height: 60mm).
- iii) Ostorage jams with thumbed, applied strip and red pairted decoration (rim diam: 180mm; base).

A minimum of c. 20 examples of both cooling pots and crucibles have been recovered, but finds from ?storage jors are restricted to one thumbed handle with rim, and one body sherd decorated with a thumbed applied strip.

The fabric lies at the finest extreme of Northampton ware, and is also within the Stamford range, but lacks the larger more

prominent quartz inclusions characteristic of N. French wards. It is a low-fired, fairly soft, thick-walled fabric, more in keeping with Northampton than Stamford or Beauvais-type products, but unlike fabric WI was consistently well produced, and fired under exidising conditions.

Although there are similalities with red-painted wares from Stamford the Northampton group has only two ?storage vessels, whilst these are the predominant Stamford form, and no parallels exist for the brush-painted cross-hatched decoration on the shard from St Peter's Gardens. The decoration on Beauvais vessels was better executed with finer brush-applied designs in an otherous paint of darker bue. The Northampton pedestal crucible is of unique form, and lacks the globular profile and rounded base of Stamford examples, In conclusion it is suggested that vessels in fabric ?Wi/Xi(1)/Y were probably produced in Northampton, although the similarity with pottery from the north of France would argue for strong influence, and possibly the presence of traftsmen, from that area.

The relationship between CWI/XI(1)/Y and WI is at present undertain, but it is probable that the impetus for the development of Northampton ware came from the local production of the higher quality ware. Northampton ware could be regarded as a coarseware version of PWI/XI(1)/Y but it cannot be said whether it was produced by the same potters, of possible foreign origin, or whether it represents a local imitation. It would appear to have been the longer-lived more abundant product. Given the comparatively small quantity of PWI/XI(1)/Y and its uniformity in fabric, form and decoration a short date range of two to three decades is proposed, and by association with Northampton ware, and the numismatic evidence, the first quantum of the 10th century is considered the likeliest period of floruit, although a broader 850-1100 category has been retained due to the lack of firm stratignaphic evidence and the problem of residual occurrence.

(iii) RESIDUE ANALYSIS An Interim Report by J Evans and M D Cand

Nine samples of pottery were submitted for analysis to determine the nature of the burnt meadure on the sumface of the oberds. Approximately five gramm of the inner surface of the pottery and the burnt reprints were not jested to souther extraction using a series of solvents of varying priarities. The various extracts were examined with a range of thromatographic and spectrographic techniques.

All the hexage extracts gave triglyceride patterns that were provisionally identified by term lawer chromatography (T.L.C.). Further data was obtained by hydrolycing part of the herage extracts and methylating the recolling fatty acids. The methyl esters were then examined by gas liquid chromatography (G.t.C.). The results of both T.L.C. and G.L.C. suggested that the extracts were of animal fats origin.

A further five grams of the fabric was extracted with water

and acid. The aqueous and acid extracts were then examined quantitively for sodium by flame photometry. The aqueous extracts all showed low levels of sodium ions (less then 2 p.p.m.) which reflects the general soil background: Acid extracts showed high levels of sodium ions in AM 84057 and AM 84059 which suggested the presence of salt (sodium chloride), possibly from a salt preserved product.

The hexage extracts appeared to fall into two groups. Group 1 consisted of all but AM 84054 and AM 84057 and produced data that suggested a degenerate animal fat. Group 2 samples AM 84054 and AM 84057, were peculiar in both being 'rich' in stearates, stearic acid accounts for approximately 45% of the total but little palmitic acid was detected. This system is not reflective of any natural animal (or vegetable) fat and could suggest that the fat had been prepared in some way, possibly by rendering.

The samples submitted were as follows:

AML nos: 840454, 840455, 840456, 840458 Context Z60, Phase 1: Sunken-featured building Four sherds from different cooking pots, fabric S18

AML nos: 840457 Context A410, Phase 1: Main timber hall 1 sherd from a cooking pot, fabric S1B

AML no: 840459 Context AA233, Phase I: Other deposits I sherd from a cooking pot, fabric SIB

AML no: 840462 Content 230, Phase 3: Fit/post noile I sherd from a cooking pot, fabric []

AML no: 840461 Context AA346, Phase 4Ai: Pit 1 spend from a cooking pot, fabric T1

AML no: 840460 Context AA400, Phase 4A1: Pit 1 sherd from a lamp, fabric W54

THE MEDIEVAL AND POST-MEDIEVAL POTTERY by Varian Denham

The pottery recovered from medieval and post-medieval contexts at St Peter's Gardens comprises 12,111 sherds, of which 8,328 came from stratified contexts. The group provides a useful addition to the ceramic evidence from other sites in the town, in particular from St Peter's Street (McCarthy 1979) and has furthered understanding of the range of forms and fabric types, methods of manufacture, vessel use, trade and distribution of pottery in the 1100-1850 period.

(i) KEY TO FABRICS (Table (M) 1)

Main Fabric Groups

R Roman

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- S Saxon (AD 400-900)
- T Late Saxon/medieval: calcareous
- V mate Saxon/mediaval: calcareous-sandy
- W Late Saxon/medieval: sandy
- X Late Saxon/medieval: very fine sandy
- Y Imported
- Z Post-medieval

References to previously published fabric definitions and discussion are cited in the third column. The prefix (M) to a page number indicates microfiche.

Report code: M100: The Greyfrians report (Gryspeerdt 1978)

M115: The St Peter's Street report (McCarthy 1979)

M139: The Chalk Lane report (Gryspeerdt 1981)

M178: The Marefair report (Gryspeerdt 1979)

M285: The College Street report (Oryspeerdt 1982)

M351: The Derngate report (Shaw and Denham 1984)

M403: The Riding report (Denham 1984b)

Mi15X: Gazetteer of Saxon Pottery (This report

Phase 3: (M) 2/19-47)

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Code	Familiar Name	Reference	Origin	Date
S(1-2)	Saxon (All types)	M115X: (M)2/19-27	Local and regional	450-900 ·
S3/T1		M115X: (M)2/27-28	?Local and regional	650- 9 00
T1(1-4)	St Neots-type ware	M115X: (M)2/28-30	Local and regional	850-1100
Ť1/2	Transitional late Saxon/early medieval shelly ware	M115X: (M)2/30-31	?Local	1000-1200
T2	Medieval shelly ware	M115X: (M)2/31	Local	1100-1400
T2(2)	Lyveden/Stanion- type ware	M3 51: (M)32-33	Lyveden, Stanion, Northants	1200-1400
T 4		M115:157	Local ?NE Northants	1200-1400
T11		M115X:(M)2/32	•	900-1300
V1 (1-2)		M115:157 M178:(M)87	?Midlands	1100-1400
V2		M110:135	Potters Marston, Bucks	1260-1400
V3		M115:157	?Beds	1200-1400
100 or 100 V4 100 or	Olney Hyde-type ware. (Fabric B)	M178: (M)87	Olney Hyde, Bucks	1200-1400
V 5		M115X: (M)2/32	?61oucs/0xon	90 0-1 300
V 6		M351:(M)34	S Northants/ Oxon	1100-1400
V7 (1-2)		M115:158	?Local	1100-1400
VB		M115X:(M)2/33	?G1 oucs/0xon	900-1300

	₩.			
	The second of th	M285:68	?Nottingham	1200-1400
W1 (1-3)	Northampton ware	M115X: (M) 2/33 -35	Northampton	850-1100 710th century
wz	?Thetford-type ware	M115X:(M)2/35 -36	East Anglia	850-1200
W3(1-3)	Thetford type ware	M115X: (M)2/36 -37	East A nglia	850-1200
W4		M115X: (M)2/37	PLeics/Lincs	1050-1250
W7 (1-4)		M115:159-160	Oxfordshire & Bedfordshire	1100-1400
We		M115: 1 60	SE England	1200-1500
W11(1-7)		M115:160	Midlands	1200-1500
WI3		M115:161	?N Midlands	1200-1500
変 W1 4	Brill-type ware	M115:141	Oxon	1200-1500
W15	East Anglian Red ware	H115:161	East Anglia	1200~1500
W1.6	Midland Purple wares	M115:161	Midlands	1350-1 5 00
W17	Midland Yellow wares	M115:162	Midlands	1525-1700
W18	Potterspury ware	M115:162	Potterspury/ Yardly Gobion, Bucks	1250-1600
₩20(1-2)	East Midlands Late Medieval Reduced ware	M115:162	?Bucks/Beds	1350-1600
WZI	Surrey White wares (Tudor Green)	M115:163	Surrey Hants	1400- 160 0
W22		M285:68	East Midlands	1100-1400
W29	East Midlands Late	M115:163	7Local	1350-1600

.Medieval Oxidised ware

	r			
W 32		M115X:(M)2/38	?Local	850-1100 ?10th century
W34	• .	M115X:(M)2/38 -39	PLocal	850-1100 ?10th century
W47		M115X:(M)2/39 -40		?Local 900-1300
W49		M178: (M)88	?	1100-1400
4 54		M115x: (M)2/40 -41	TEast Anglia	850-1200
X1(1)	Stamford ware	M115X: (M) 2/41 ~42	Stanford, Lines	850-1250
X1(2)	Developed Stamford ware	M115:164 M139:118 (M)65-66	Stamford, Lincs	1150-1250
X2a	Cistercian ware	M115:164	PLocal	1470-1550
X 2b	Midland Black wares	M115:164-165	?Potterspury, Bucks and ?East Anglia	1550-1700
PW1/ X1/1)/Y		M115X: (M)2/44 -47	?Local ?Regional ?N France	850-1100
Y 5		M115:165	?Germany	15th-16th century
1 7 6	Blue-Grey ware	M178: (M)88	Rhimeland, Germany	Late 11th- 12th century
Ye	Raeren Stoneware	M403: (M) 34	Raeren, Germany	Late 15th- Es: ly 17th century
79	Frechen Stoneware	M403: (M)34	frechen, Germany	leth-mid 17th century
121 (1-2)	Staffordshire Slip and Manganese ware	M403: (M)40 -	Staffs	1680-1750

ZJ	Local slipped and marbled coarse-wares	M403: (M) 41	?Potterspury, Bucks and ?Oxon	17th-early 18th century
Z5	1ron-glazed coarse-wares	M좌인명# (M) 42 (?Local, ?Potterspury, Bucks	17th and 18th century
27	Miscellaneous glazed coarse- wares	M403: (M) 42	TLocal Protterspury, Bucks	17th and 19th century
Z9	English tin-glazed wares (London Delft)	M	PLambeth PLondon	Late 16th- 19 18th century
711	Iron-glazed fine- wares	M403: (M)43	Local	17th-18th century
Ź13	Salt-glazed Stone- ware (white)	M403: (M)44	Staffs	18th century
7.15	Nottingham Selt- glazed Stoneware	M4031; (M) 44	Mottingham	18th century
Z 17	Creamware	M403: (M) 45	Staffs	18th-19th century
219	Hand-painted Pearlware	1403: (M) 45	Staffs	Late 18th- 19th century
Z2 1	Black Basalt ware	M403: (H) 45-46	Staffs	Mid 10th-19th century
723	Transfer-printed Pearlware	14403: (M)46	Staffs	Late 18th- 19th century
7.25 7.25	Mocha ware	M403: (M) 46	Staffs	19th century
Z50	Modern wares	M403:(M)47	tes.	Post 1850

(11) FABRIC QUANTITIES BY PHASE

	ble (M)2 bric Code	3/4Ai	4Ai	4A i7ii	4ALI	4Ai1/Bi	481	4Bí i	U a	i. \$	fotal
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e: 8: a r	#32	1	В	•					•	4	15
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	T1/2	52	624	75	45	7	4	150	13	326	1326
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y #	N49		22	7	8			3	1	3	44
r.	¥7		51	21	10		2	26	7	50	141
•	X1 (2)		19	1	3			}		5	26
D I I V	†2 (2)		145	27	41	j	2	34	5	119	375
, I	Īē.		52	1	6					36	97
Ų	V2		14	1	7					3	20
A	V3		72	8	q	6		12		18	125
. T	V4		2	_					2	13	17
	99		_	3						2	5
k K	Må		2	4	_	20			_	11	37
	Wil		11	12	9	•		i	i i	33	67
	W13		3	,		46				3	61
	W14		88	28	(?	1		14		74	168
	W15		1	1		1	1.4	ž	**	18	29
r wo wa A	W18		51	56	626	216	14	57	20	434	1547

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	X2a				3	3	1	1	3	36	
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	N17				2	5		4		2	
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	0/111	1	82	15	11	7		18	ŀ	30	1
	Unknown		9	3	3	3		\$	5	167	1
	fotal	155	4461	701	1344	394	?3	964	224	3777	120

Context unsemignable to secure phase eq 3Ai/4Bii, 24Ai etc. Intermediate or uncertain fabric type eq 2M2: M29/MIB etc. For details see codified summary (**) x/86-48, (**)3/:-22.

(iii) PHASE SUMMARIES

Phase 3/4Ai (155 sherds)

Material in this category could not be accurately assigned to one or other phase either on stratigraphic or ceramic grounds, and some of the pottery is likely to be residual (ie in fabrics S, 83/T1, T1(4), W1, W32, W34 and ?W1/X1(1)/Y). The high percentage of fabric T1/2 together with a lesser amount of T2 suggests a date in the 11th, or first half of the 12th century. Forms are comparable with those in Phase 3, although straight-sided bowls were more common. No jugs were conclusively identified. A difference in the relative abundance of material in the four sub-categories of St Neots-type ware between Phase 3 and Phase 3/4Ai supports the proposed chronological framework for the refined classification (Table 11 and (M)2/28-30)

St Neots- type ware	T1 (4) 800-950	T1(1) 900-1100	T1 (3) 900~1150	T1 (2) 1 0 00-1200
Phase 3 284 sherds	7%	2 6%	7%	4%
Phase 3/4Ai 50 sherds	2%	30%	20%	2 2%

Unclassifiable T1 comprised 55% of Phase 3 and 26% of Phase $3/4\mathrm{Ai}$ St Nepts-type ware.

Fabric	Illustration mos.	
₩1	195	(Residual)
W32	253	(Residual)
T1/2	1614	

<u>Phase 4Ai</u> (4,465 sherds) 1100-1400

Residual material

A large amount of late Saxon residual material is present in this phase (c.1,000 sherds). St Neots-type ware accounts for the greater part, Northampton were and Stamford were providing the only other sizeable groups. Both the relative proportions of the different fabric types and the range of forms present in each ware directly reflect the ceramic evidence from Phase 3.

Fabric -	Illustration nos.
83/T1	75
T1	78, 82, 8 3, 87, 93-95
Wif	191
₩32	252
7W1/X1(1)/Y	206, 208 Note: painted decoration
X1(1)	25 7
W\$	210 Note: painted decoration

Calcarenus wares

More than 95% of the contemporary calcareous tempered shords are of late Saxon/early medieval transitional ware (T1/2) or early medieval shelly ware (T2).

Cooking pots with simple curved or flattened everted rims and sagging bases, and deep straight-sided bowls with simple rims were predominant in T1/2, but a small flat-based bowl with an inturned rim, and a fine-walled pedestal lamp, reminiscent of late Saxon forms, were also present. A short pulled bandle, possibly from a storage jam, was recovered, and one thumbed incised strap handle demonstrates the appearance of jugs or pitchers in shell-tempered fabrics during the transitional period.

The range of forms and the quantity of material in fabric T2 are larger. Globular cooking pots with sagging bases occur most frequently and jugs with either straight or globular profiles and narrow, occasionally rilled, necks are common. Rims can be curved, square, everted, or of more complex moulded profile. Straight-sided bowls and pedestal lamps with thick walls and moulded stems are also found. Diamend-notched rouletting around the vessel girth is the most common form of decoration, but rare examples of combed, applied strip, and stamped decoration were recorded.

Decorated jugs from the Lyveden/Stanion area (T2(2)) accounted for more than 50% of the contemporary glazed wares. These almost invariably have complex moulded rims, nod handles, straight sides, and flat or slightly sagging bases. A lead and copper glaze, and decoration of applied vertical strips of a white-firing clay with rosette stamped pags, is generally confined to the upper two-thirds of the body. The surface of the ware is characteristically speckled by the white oblitic inclusions.

A few featureless body sherds of Til (probably of Cotswold origin) and fragments of cooking pots with simple curved rims in fabric T6, complete the range of shell-tempered wares present in Phase 4Ai.

Fabric	Illustration nos.
T1/2	100, 101, 107-9, 111
72	116, 118, 126, 133,
	135, 137, 138, 141,
	146, 148, 151, 153,
	154, 157
12(2)	159. 161

Calcaneous-sandy wares

Between 5 and 10% of the pottery falls within this category, and all fabrics are likely to be of local or regional origin. Fabric VI is the most abundant, and within this type the majority of the shands are unglazed VI(1), less than 15% bearing a patchy lead glaze (VI(2)), and these probably derive from jug forms for which no body profiles are reconstructable but which are evidenced by stabbed rod handles and narrow rilled necks with simple curved evented rims and thumb pulled lips. Unglazed forms include large bowls and small copking pots. Similar cooking pots and jugs were also present in the closely related, but higher fired fabric V7, which may have had a longer life

span. Cooking pots with more complex moulded rims, and a jug in fabric V6 of possible S. Northants/Oxon origin and comparable forms in fabric V3 which probably came from the Bedfordshire area, indicate the lamited range of vessels produced throughout the region during this period. Decoration is infrequent and is usually confined to rouletting around the necks of jugs, although one sherd in fabric V2, from Potters Marston, bore a thumbed applied strip and combing. A few featureless body sherds in fabrics V5 and V8, probably of Cotswold origin, were also recovered, but may have been redeposited as they generally occur in 10th or 11th century contexts.

Fabric Illustrated nos. V1 167, 168, 172, 174 V2 177 V7 178, 180, 181 V6 183, 184 V7 190, 191

Sandy wares

Less than 10% of the pottery is in sandy fabrics, and the majority of the sherds are from glazed jugs, most of which are regionally imported from Midland areas. Material from the Oxfordshire area (W7(1), W7(2), W7(3) and W14) is the most abundant and includes sherds from large baluster jugs with complex moulded rims, and stabbed strap or rod handles. Although tripod pitcher ware (W7(1)) was present no form diagnostic sherds were recorded. Wares from Brill were decorated with vertical bands of square-notched rouletting over iron slip-painted lines, stabbing, and applied pads, and two sherds with plastic ornamentation of anthropomorphic derivation (a Fram's horn and a human face) may also have originated in this area.

Body sherds, probably from cooking pots or jugs, are present in small numbers in fabrics from S. E. England (WB), East Anglia (W7(4), W15) and the North Midlands (W11, W13, W49). The advent of late medieval fabric types during the 14th century is evidenced by a single sherd of East Midlands Reduced ware (W20) and 51 sherds of Potterspury ware (W18) which make up less than 2% of the contemporary pottery in this phase as opposed to 70% in Phase 4Aii.

Fabric Illustration nos. W7 211-213

W14 221, 223, 225

Very fine sandy wares

Developed Stamford ware (X1(2)) is represented by 16 sherds, all in fabrics B and C with Glaze Type 3 (Kilmurry 1980, 8-9, 11-12). Most sherds are from jugs or pitchers and one particularly fine example is decorated with short combed strokes on vertical thumbed applied strips (decoration M75, Kilmurry 1980, 143) and probably dates to the early 13th century. Fabric Illustration nos.

X1(2) 264, 265

Manufacture and Use

Changes in methods of manufacture are notoriously difficult

to discern during this period. The late Saxon tradition of competently wheel-thrown wares of St Neots- and Thetford-type is still in evidence on many T1/2 transitional wares, and smaller cooking pots in fabric T2. However, by the beginning of the 13th century many large vessels in calcareous-tempered fabrics would appear to be coil built. These can be either extremely fine-walled and well produced or uneven mis-shapen and badly funished. There is no reason to suggest that the use of the fast wheel disappeared completely during this period as some regionally imported vessels (particularly in fabrics V7, W14 and W11) evidence its continuation, but it was not until the end of the 14th century and the rise to pre-eminence of Potterspury ware that the majority of pottery was once again wheel produced. However in conjunction with this retrogression in methods of vessel construction can be found a diversification and flamboyance in decoration, a more widespread use and greater competence in the application of glazes, and the development of better fired, oxidized wares.

During the 12th century the majority of cooking pots are heavily scoted and suggest use over an open fire. Later forms, particularly large globular cooking pots in T2, probably of 13th and 14th century date, are more rarely scoted, a phenomenon recognised at other sites in Northampton (Shaw and Denham 1984) which may suggest a change in cooking methods and the more widespread use of metal cauldrons, or reflect a functional development in favour of storage. The limescale deposit, presumably a result of water storage or boiling, characteristic of late Saxon shell—tempered wares is only rarely apparent on cooking pots between 1200 and 1400, but has been noted on large jugs and pitchers in sandy fabrics, of 13th—14th century date. A possible secondary function of some of the better quality glazed jugs as urinals is suggested by a thick phosphate—rich off—white scale on the vessel interior.

Trade

No kilns have been identified in the town after 1100 and it is likely that the majority of the calcareous pottery in the 12th-14th centuries was produced in villages in the region. Medieval shelly ware (T2) kilms have been identified at Harrold, (Bedfordshire), Yardley Hastings, and Olney Hyde, (Buckinghamshire), and Lyveden and Stanion (N. E. Northamptonshire), but it is probable that many more existed, all producing a fairly standard range of cooking pote, bowls and jugs in fabrics reflecting the underlying Jurassic geology. Attempts to subdivide St Neots-type ware by fabric, using neutron activation analysis (Hunter 1979) and thin section analysis (Gryspeerdt 1981) were unsuccessful and given the similarity of both clay and temper and the uniformity of form and finish of T2 wares, it would appear that any meaningful sub-division of early medieval shelly wares within the town will not be possible until pottery from known kiln sites and other excavations has been accurately defined for the mest of the county, if not the region.

Whilst the origin of unglazed coarsewares thus remains poorly researched the trade to Northampton of better quality glazed wares, in particular of jugs and pitchers, is better understood.

During the 11th century Stamford ware is the only major fineware import and continues to dominate the market until the beginning of the 13th century when a considerable change took place with the arrival of glazed jugs from the Lyveden and Stanion kilns from N. E. Northamptonshire, nearly 25 miles from the town. Although the kilns were producing a wide range of glazed wares (Webster 1975, 60-95; Bellamy 1983, 156-159) only jugs of a standard type have been recognised in Northampton, but these continue to account for more than 50% of glazed wares in the town for nearly a century and a half, and do not decline in quantity until the middle of the 14th century. Oxfordshire pottery, from several sources, in particular tripod pitchers and highly decorated baluster jugs, accounts for the majority of the other better quality wares, the former occurring during the lator 12th and 13th centuries, the latter from the 13th to the middle of the 14th century. By c. 1350 the production of plainer, squat globular jugs was more widespread, and these, together with a greater range of glazed forms, from a local kiln at Potterspury, begin to feature more prominently in the archaeological record. By the beginning of the 15th century Pottespury ware, W18, ultimately achieves ascendancy over all other fabrics, presumably because it was 'ess expensive.

At present a firm date cannot be determined for the emergence of Potterspury ware as the predominant fabric in Northampton. The evidence from House 4, St Peter's Street, clearly demonstrates that WIB was of extremely rare occurrence at 1250. but of abundance by about 1400, a date substantiated by two well stratified coins (Williams 1979, 48; McCarthy 1979, 189; Archibald 1979, 245). Potterspury ware was however, absent from a pit group from College Street which has been dated on typological grounds between the mid-13th and mid-14th centuries (pers. comm. M. Mellor in Gryspeerdt 1982, 70). It would consequently appear that whilst WIS was not a notable feature of assemblages earlier than c.t350 it had certainly risen to pre-eminence by 1400. It is significant that the trade in jugs from the Lyveden/Stanion area to Northampton had ceased by the middle of the 14th century. Although the impact of coil-built vessels was common from the 13th to the early 14th century wheel thrown vessels with full external glaze which occur during the first half of the 14th century at Raunds, Northamptonshire (pers. comm. T. Pearson) are very rarely found in Northampton. It is reasonable to relate the increasing occurrence of more locally produced jugs from Potterspury to this decline in Lyveden/Stanion type wares imported from the north east of the count).

Owing to the lack of securely dated contexts between 1350 and 1400 in Northampton a date of 1400 has, however, been retained for the Phase 4Ai/4Aii interface, which is characterised by the transition from shelly to sandy fabrics. Nevertheless it is possible that Potterspury ware, together with other later medieval sandy fabrics W20 and W29, came into greater prominence some time during the latter part of the the 14th century.

Material in this category could not be accurately assigned to one Or other phase, either on stratigraphic or ceramic grounds, but a large proportion probably dates to the 14th and early 15th century, although much of the shelly ware is clearly residual. The majority of both fabric types and forms are broadly similar to those within Phase 4Ai but the increased proportion of fabrics W18, W20 and W29 should be noted together with the development of late medieval forms, in particular of small flat-based dishes and bowls in fabrics V1 and W20.

Fabric Illustration nos. T2 123, 136, 150, 152, 155, 156
T2(2) 162
V1 165, 173
W14 224
W20 241-243, 245

Phase 4Aii (1,344 sherds) 1400-1500

Residual material

Approximately 400 sherds in this phase are likely to have been redeposited and the majority of these are in calcareous-tempered fabrics of the late Saxon and early medieval periods, in commonly occurring forms.

Fabric

Illustration nos.

72

158

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164, 170

Calcareous and calcareous-sandy wares

Very few fabrics with calcareous temper continued to be produced during the 15th century. Cooking pots and jugs in fabrics V3 and V7 are present in small quantities but in 12th-14th century forms, and, if not medeposited, suggest a degree of conservatism in rural potteries which has also been demonstrated by the discovery of globular cooking pots with simple curved rims and other archaic forms from a recent excavation of a late/post-medieval kiln at Glapthorn, Northamptonshire (pers. comm. B Johnson).

Sandy and very fine sandy fabrics

Sandy fabrics predominate in the late medieval period, 75% of the material being produced at Potterspury in Buckinghamshire. The range of forms is considerably wider than in the preceding century. Cooking pots are commonly rilled with globular profiles, and internal lid seatings, or bifid rims. Flat-based, wide-mouthed pancheons with flanged rims, large bunghole pitchers and disterns, and skillets with straight handles with rounded or turned over terminals, occur for the first time. Jugs are commonly of globular profile with sagging bases and stabbed or incised strap handles, but can be conical with clubbed flat bases and heavy throwing ridges resulting in corrugated profiles. Potter upury were was glazed either internally or externally, or more rarely on both surfaces, irrespective of form. The glaze generally covers less than two thirds of the

vessel and is commonly restricted to a bib around the newk of jugs, rarely extending to the vessel bases. Decoration is rare, although narrow, thumbed, vertically-applied strips and incised curvilinear decoration have been noted.

East Midland reduced and exidised gritty wares comprise more than 10% of the contemporary pottery. Pancheons, small flat-based dishes and bowls, and large rounded jugs with simple evented rise are the most common forms. Decoration is rare and glaze is restricted to the exidised ware. A chamber pot in Midland Purple ware was recovered and round squat jugs with strap handles and a globular pot with a horizontal faceted handle were also present in the same fabric. Many fragmentary sherds of Surney White ware (W21, Tudor Green) of indeterminate form, but probably deriving from small cups or jugs, were also recovered.

The base of a Cistercian cup (X2a) probably of Midland production, two sherds of Midland Yellow ware and one sherd of 17th-century coarseware are the latest fabrics present and suggest that this phase may extend into the early decades of the 17th century.

Fabric Illustration nos. W11 216 W16 226, 227, 229 W18 231-234, 238, 239 W20 244, 246, 247 X2a 264

Manufacture and Use

No hand-made wares are present in post-1400 contexts. On the whole vessels are thin-walled and competently thrown. Some of the larger vessels may have been produced on a cartwheel (McCarthy 1979, 228). The quality of finishing can vary considerably and knife-trimming and wire marks are common on W18 vessels. On all fabrics applied decoration is rare, and rouletted and painted decoration infrequent, although the use of glaze is more widespread.

During this period the major innovation in ceramic production was in the development of new forms. Skillets, bunghole pitchers and pancheons extended the range of kitchen wares, whilst finer wares for use at table included cups, drinking mugs, tygs, small dishes and platters, some in forms reminiscent of metal vessels. Bowls with bifld rims in Potterspury-type ware (ill, 232) may have served as cucurbits in the distillation process.

Pottery was better fired and a greater control of temperature and attosphere is indicated by the uniformity of many wares. Heavily gritted clays were commonly fired in a reducing atmosphere (W2O) but Potterspury ware, which was probably made from an untempered natural clay, was fired under oxidising conditions in a single-flued kiln (Jope 1950, and Mynard 1972). The manufacturers of oxidised wares frequently extended their repertoire to include tiles and this is apparent at Lyveder. (Steame and Bryant 1975, 3-59) and also at Glapthorn where both pots and crested ridge tiles were being produced in the same kiln (pers. comm. P Foster).

Trade

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The Potterspury and Yardley Bobion kilns were the principle suppliers of the Northampton market from the late 14th century to the early 17th century. The North Midlands continued to produce better quality wares for import (W11, from the Coventry/Numeaton area) and East Anglian red wares still occurred. Vessels from Oxfordshire were only a minor feature of the Northampton assemblage during this period and glazed calcareous jugs were no longer imported from N. E. Northamptonshire although the utilitarian coarseware, W29 (East Midlands Late Medieval Oxidised ware), may have been produced in the Lyveden/Stanion area. The other major coarsewares of the period, W20 and W16, are of uncertain origin but the former may have been produced at Brickhill, whilst a more northern, or possibly Staffordshire, source is likely for the Midland Purple wares. Fine table wares were imported from Surrey at the beginning of the century (W21) but by mid-century a wider range of better quality wares were being produced by local potters, often in imitation of the mouthern wares (*Za, W16, W11).

Phase 4Aii/48i (394 sherds)

Naterial in this category could not be accurately assigned to one or other phase in the 1400-1700 period, either on stratigraphic or ceramic grounds, but a large proportion probably dates to the later 16th and the 17th century, although residual pottery accounts for 10-15% of the material.

Fabric	Illustration nos.	
T 2	149	(Residual)
W13	219, 220	
W18	235	
W21	248	

Phase 4Bi (75 sherds) 1500-1700

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Very little pottery was recovered from 16th and 17th century contexts. Nearly one third of the material has been redeposited from earlier contexts and no demonstrably 17th century forms were identified. This is probably a result of the use of the area as gardens and waste ground during the period (Hunter 1979, 134), but is also in keeping with a decrease in the quantity of pottery recovered from post~1400 contexts noted throughout the town, which may reflect different practices of rubbish disposal (Shaw 1984). In the lath century the town assembly enacted that domestic rubbish was to be disposed of in one of five dunghills situated outside the town (Cox 1898, 264) and this would inevitably have resulted in a fall in the number of pits and hence pottery recovered from 17th century contexts.

Fabrics W18, W16, W29 and X2a are the only contemporary pottery types recognised, and the forms, where identifiable, are broadly similar to those in the preceding phase. The high incidence of gritty oxidised ware (W29) and absence of the gritty reduced ware (W20) which featured more strongly in Phase 4Aii, may be significant, and suggest a chronological variation, although the limited sample size prohibits any firm conclusions.

Fabric Illustration nos. T2(2) 160 (Residual) W29 251

Insufficient material was recovered to enable firm conclusions to be drawn with regard to methods of manufacture, use, and trade although an improvement in vessel production and an increased variety of forms are suggested by the evidence. Pottery would still appear to have been produced at local and regional kilms. Press-moulded slip decorated flat-wares from Staffordshire were not present although fabric W16 and X2a may have been produced in that area.

Phase 4Bii (964 sherds) 1700-1900

Residual pottery

More than 85% of the pottery recovered in this phase predates 1700. Material from the Saxon period is well represented and this suggests that considerable disturbance of the area took place in the late post-medieval period. Both in range of form and fabric the residual pottery is in keeping with material in earlier phases and examples have been included in the catalogue which emphasise the typical, or draw attention to the more unusual (indicated below), ceramic types.

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Fabric.
               Litestration nos.
53/T1
               74, 77
T 1
               81, 84, 89, 91, 92
T1/2
               99, 102, 110
12
               122, 127, 128, *139
                                       *(Note rare indised
                                       decoration)
VJ.
               179
V7
               187, 183
W1
               192, 194, 196, 197
               203, 204
?W1/X1(1)/Y
W3
               209
                                       (Note rare incised
                                       decoration)
W14
               222
W17
               230
W19
               236, 237
W49
               255
X1(1)
               258
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Contemporary wares

Few shards dating to the 1700-1900 period were recovered, and these were neither of particular denamic interest, nor sufficiently form diagnostic to merit illustration.

Local glazed coarsewares of 18th century date were present in small quantities and may have been made at post-medieval kilos in the Potterspury area. 'Nottingham' salt-glazed stoneware sherds were recovered, and although the forms are not clearly identifiable it is likely that plant pots and inkwells are represented. A late 18th to early 19th century date is suggested as the brown glaze is duller and less lustrous, and the rouletted decoration simpler and more poorly executed, than on 18th century examples. Given the late date it is probable that these were produced in Derbyshire or Staffordshire.

Other Staffordshire wares are represented by a sherd of whith salt-glazed stoneware (Zi3), probably from a plate, and several sherds of creamware (Zi3), and transfer-printed pearlware (Zi3), all of which are likely to have been tablewares. Modern (post-1850) wares are also probably of Staffordshire origin. Blue 'willow pattern' white 'china' tablewares, are predominant.

Fragments of an 18th century polychrome figured cup in Chinese porcelain were recovered (Y12).

Manufacture and Use

During this period press-moulded flat wares are as common as wheel thrown wares, and reflect the increased use of ceramic utensils at table. The development of transfer printing resulted in more highly-decorated wares, and the use of more reliable methods of glazing (salt, pearl and modern commercial raw lead and alkaline techniques) allowed production of a uniform, reproducable, and hence cheaper commodity.

Trade

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Small local potteries were unable to withstand the competition of larger commercial enterprises and it has been noted on the Riding, Northampton, that between 1650 and 1850 the percentage of locally produced wares fell from 53 to 6% whilst Staffordshire wares rose from approximately 30 to 80% (Denham 1984b). A similar picture is reflected at St Peter's Gardens. By the beginning of the 19th century products of the Black Country had eclipsed wares from all other areas and this resulted in the ceramic industry as we know it today.

Unstratified pottery, including pottery unassignable to secure context (4,008 sherds)

Pottery was found both in contexts which could not be securely assigned to phase (see codified summary for details: (M)2/84-3/22, and in the initial clearing of the site prior to excavation. Material from all periods was present and typical and unusual forms have been included in the catalogue to supplement the ceramic information from contexts of known data. Fabric Illustration nos.

(Typical forms) 80, 86, 88, 90, 97

(Unusual examples) **96:** Thumbed handle **97:** Rouletted decoration

T1

T1/2	105~106	
T2	112, 114, 115, 117,	
	119, 120, 124, 125,	
	130-132, 134, 140,	
	142-145	
T6	163	
Vi	iá', 171	
V2	•	176: Thumbed applied strip and combed decoration
V4	182	
V&	185	
V 7	186	
₩1	193, 198, 199, 202	201: Handl≘
?W1/X1(1)/Y		
W7	215	
W11	217, 218	
W16	*	228: Inscription
W18	240	
W20	241~243, 245	
W29	249, 250	
W34	254	
W32	253, 254	
X1(1)	260, 261	257: Rilled cup
Y5	<i>2</i> 67	
Y6	268	
Z3	249	

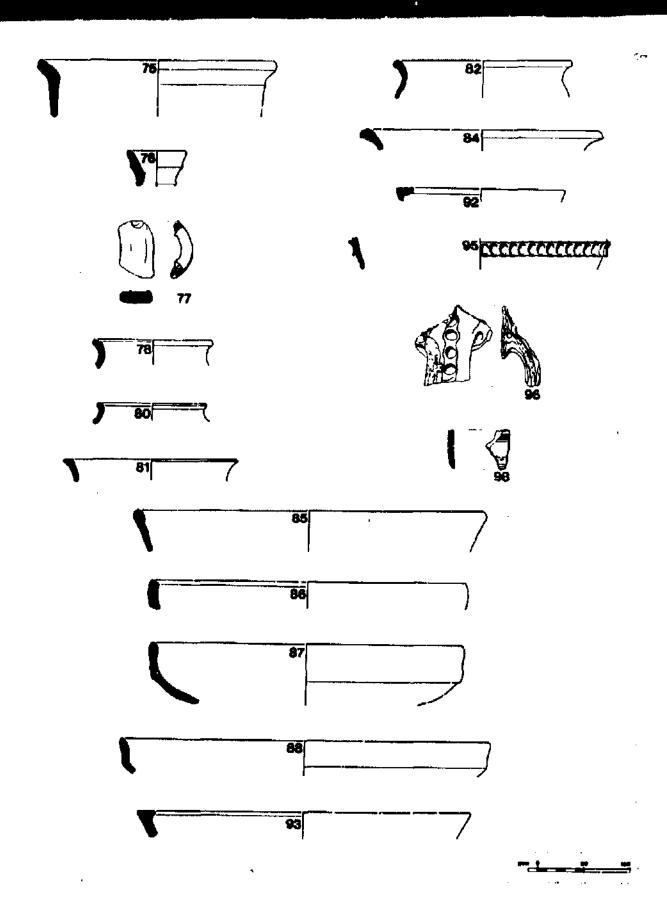


Fig (H)&: Phass 4: Pottary I Fabric \$3/TI: 74-77; T1: 78-98 For references to examples not illustrated in this report ses Catalogue of Illustrated Pottery



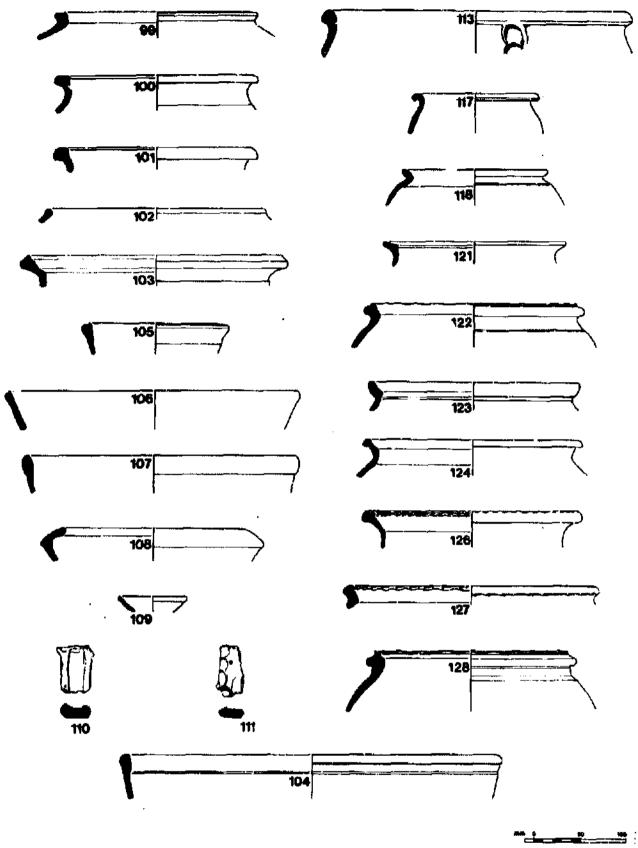


Fig (M)7: Phase 4, Pottery II
Fabric 71/2: 95-111; T2: 112-128
For references to examples not illustrated in this report sec Catalogue of Illustrated Pottsry

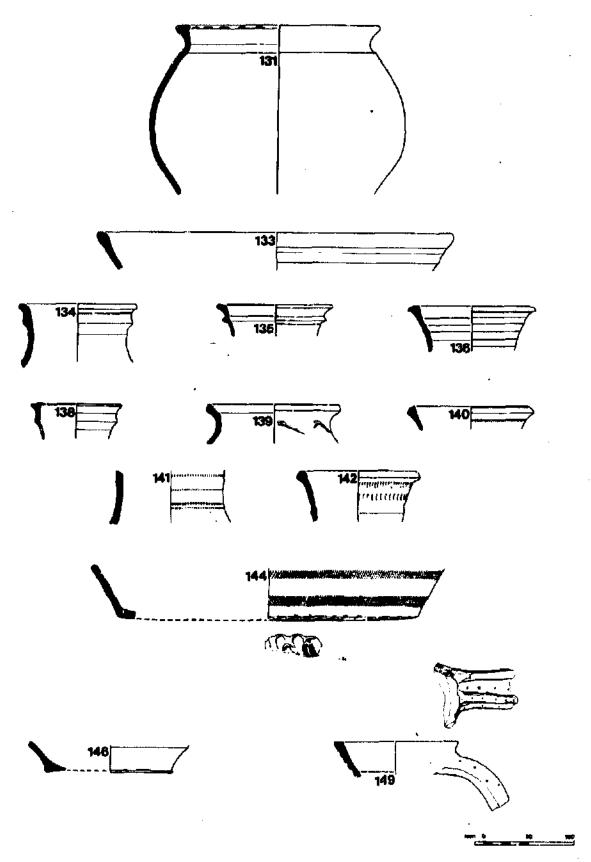


Fig (KIR: Phase 4, Pottery III Fauric T2: 129-149 For references to examples not illustrated in this report sec Catalogue of Illustrated Pottery

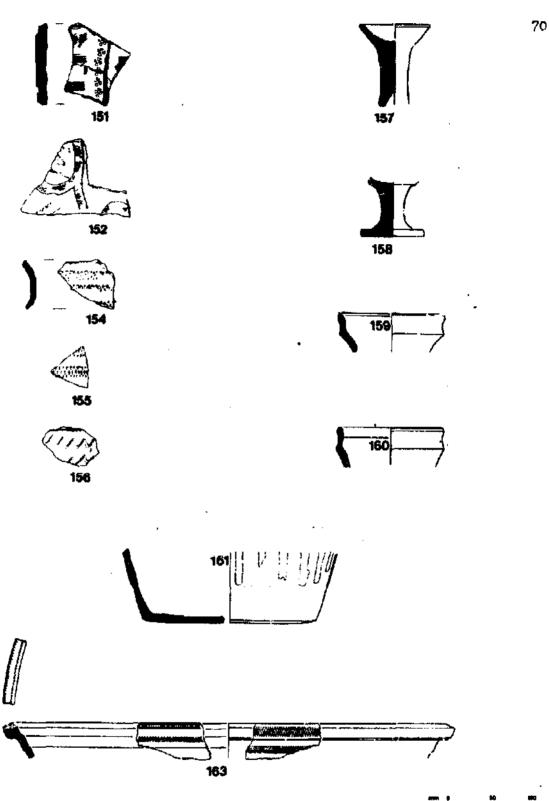


Fig (M)9: Phase 4, Pottery IV
Fabric T2: 150-158; T2(2): 159-162; T6: 163
For references to examples not illustrated in this report sec Catalogue of Illustrated Pottery

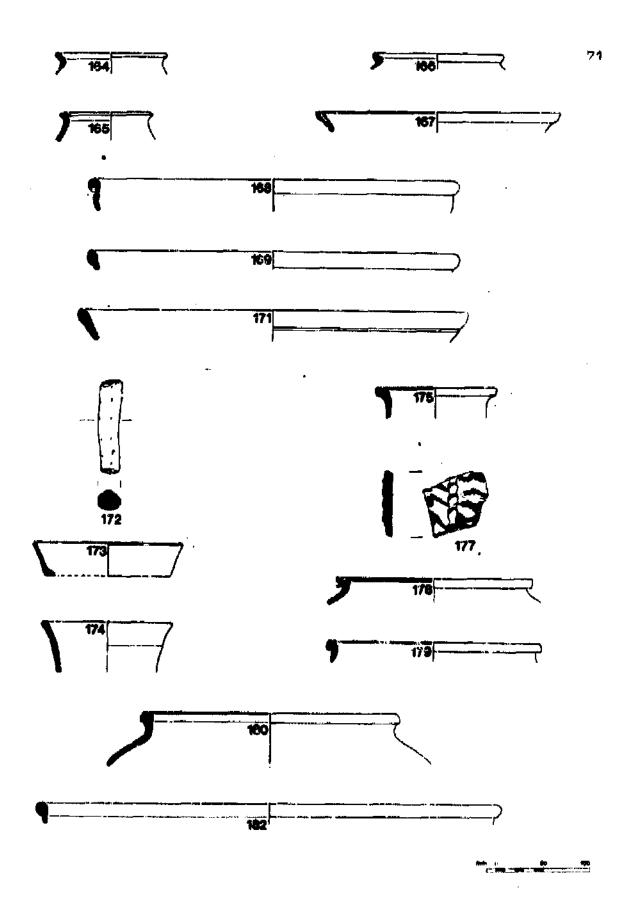


Fig (Milo: Phase 4, Postery V Fabric VI(I): 164-172; VI(2): 175-175; V2: 176-177; V3: 178-181; V4: 162 For reservoics to examples not illustrated in this report see Catalogue of Illustrated Pottery

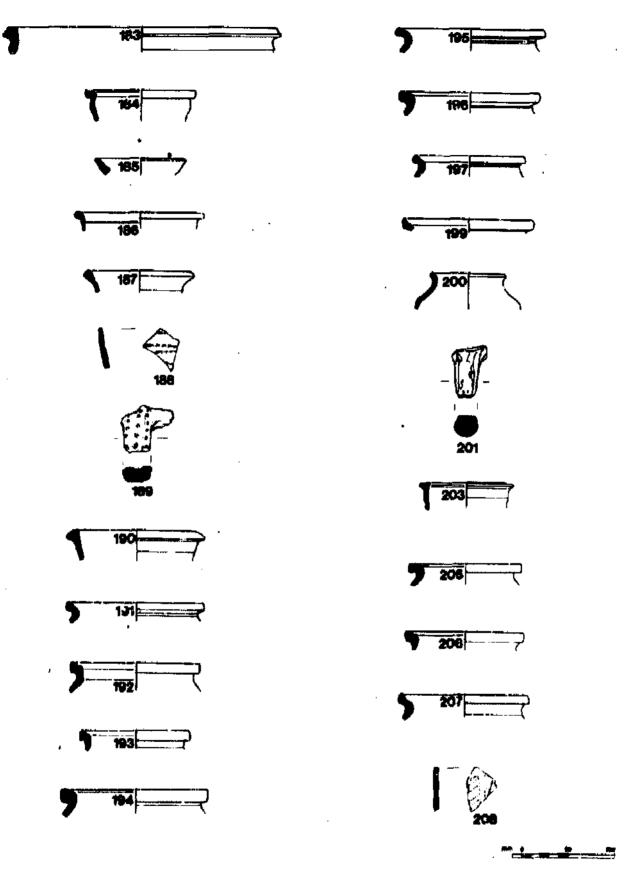


Fig. (R)11: Phase 4, Pattery VI
Fabric Vo: 183-185; V7(1): 186-189; V7(3): 190; Ni: 191-202; Ni/X1(1): 203; 7NI/X1(1)/Y: 204-208
For references to examples not illustrated in this report see Catalogue of Illustrated Pottery



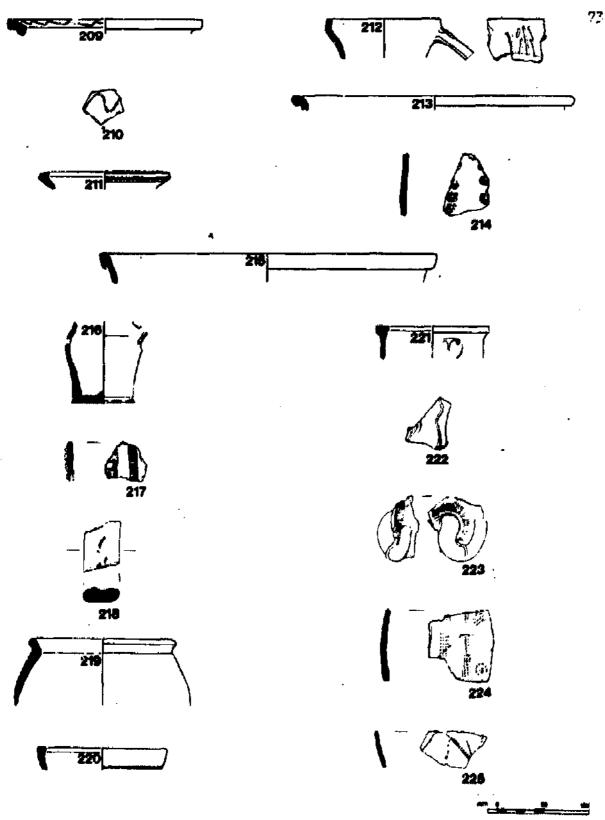


Fig (B):2: Phone 4, Pettery VII
Fabric N3(2): 209-210; N7(1): 21:-212; N7(4): 213-214; N11(3): 215-214; N11(7): 217-218; N13: 219-220; N14: 221-225
For references to exemples not illustrated in this report see Catalogue of I)lustrated Pottery

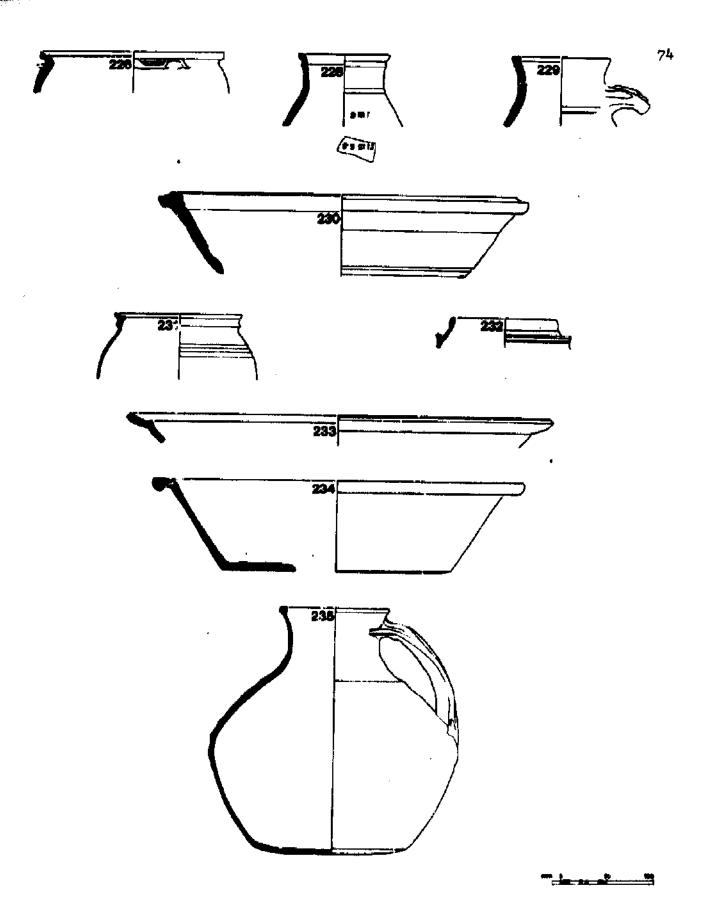
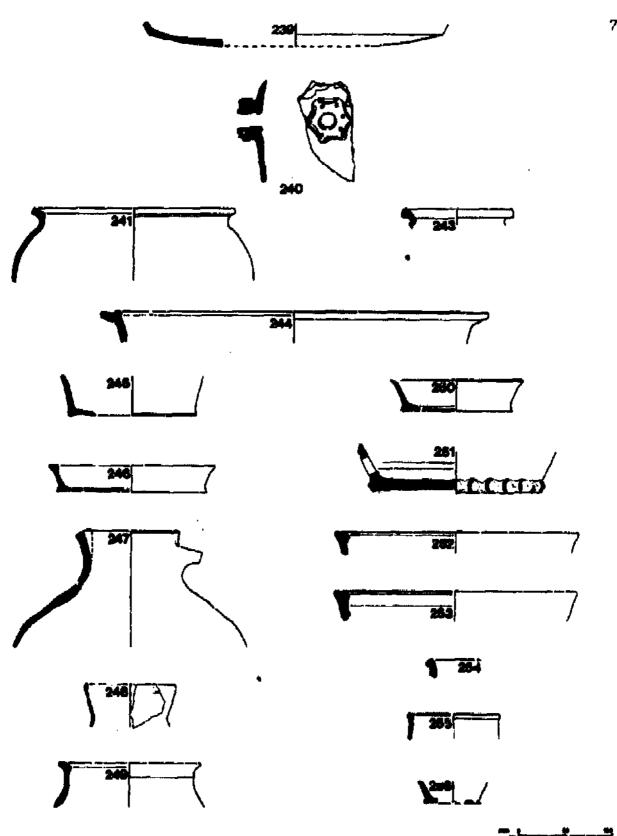


Fig (M):3: Phase 4, Pattery VIII
Fabric Wia: 226-229; Wi7: 230; Mi8: 231-235
for references to examples not illustrated in this report see Catalogue of Illustrated Pottery



Tio (M)14: Phase 4, Pottery IX

Faurit M18: 236-240; M20(E): 24:-248; M20(2:: 24e-247; M21: 248; M29: 249-251; M32: 252-253; M34: 254; M49: 235; M30: 256

For references to examples not illustrates in this report sec Catalogue of Illustrated Pottery

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Fig (M):B: Phase 4, Pattery X
Februs R1(1): 227-265; E1(2): 264-265; E2e: 266; YS: 267; Yo: 268; ZS: 267
For references to examples not illustrated in this report see Catalogue of Illustrated Postery

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Ris Say A Ris 140 SYR 8/4 7.5YR 5/0 SYR 4/1 V1 4911	enes file	M 64304	rv of Pott	67 y (18) Z	:/ U4.							
74 Hill S3/T1 A Rin 140 SYR 8/4 7.5YR 5/0 5YR 4/1 VI 4011 75 S3/T1 ARB Rin 240 SYR 3/1 7.5YR 4/0 7.5YR 6/4 M52 44 76 SX/T1 B Rin AS 7.5YR 3/2 7.5YR 4/0 7.5YR 6/4 M52 44 77 S3/T1 BR Nendire SYR 6/3 7.5YR 4/0 VI 4011 4011 78 T140 A Rin 130 SYR 4/1 SYR 9/1 SYR 9/3 AA117 4A1 79 R113 F1 A Rin 150 104 4/1 2.5YR 3/0 2.5YR 3/0 M52 44 830 800 71410 A Rin 120 SYR 3/1 2.5YR 2/2 SYR 7/2 4 M/8 81 T1 A Rin 190 7.5YR 3/0 7.5YR 6/0 VI 4011 M611 M611 82 T141 A Rin 190 7.5YR 3/0 7.5YR 6/0 SYR 9/2 AA210 441 M611 83 R139 F1 ARB Rin 240 2.5YR 3/0 2.5YR 4/0 SYR 8/2 AA210 441 M611 84 T112 AS Rin 240 2.5YR 3/0 2.5YR 6/0 SYR 8/4 AA377 441 85 T14 A Rin 340 2.5YR 8/4 2.5YR 8/0 2.5YR 8/2 AA210 441 M611 86 T14 A Rin 340 2.5YR 8/4 2.5YR 8/0 2.5YR 8/4 AA377 441 87 T14 A Rin 340 2.5YR 8/4 2.5YR 8/0 2.5YR 8/4 AA377 441 88 T11 A Rin 340 2.5YR 8/4 2.5YR 8/0 2.5YR 8/4 AA346.1 441 89 RIN T140 A Rin 340	pi.	Ref.	Fabric	fore	Merd					Context	Phase	Connect
14						Rio Seor	Ext.	Cere	int.			
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Facility A Ris 120 SVR 3/1 2.5VR 2.5/6 SVR 7/2 4 M/B	1.		Ŧ1.	A	Rib	150	109 4/1	2.5YW 3/0	2.54K 3/0	#5 2	48	
Ti(i)	36	247	(1)(1)	A	Rie	120	5VR 3/1	2.9YR 2.5/	5YR 7/2	•	¥/\$	
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Ta(1)	7											
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	67		T1 (4)	J	Rin	290	3YR 6/4	2.5VR 4/0	2.5YR 5/4	V)	4011	Het-Rand finis
See	**		tto	,	Ria	120	578 5/2	7.590 4/0	SVR 4/2		4/2	
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\$6 (1(4) &B Mondle 3YR 7/4 2.5YR 4/0 · · · · · · · · · · · · · · · · · · ·		343	1171)	E4	Badu		7. 579 474	7 4YE 4/6	4v4 4/2	121 1	441	Thursday
# 78 AG Budy 2.5YR 4/6 2.5YR 4/0 5YR 4/1 + U/S ?#Guletted FY T8/2 A Res 220 5YR 6/4 7.5YR 4/0 5YR 6/4 VI 4811 Thunbed)		11(1)	MOCO	Judy		SYR \$/2	2.5VR 4/0	SYR \$/2	•		Thusbad
T1/2 A Rem 220 SYR 6/4 7.5YR 6/0 SYR 6/4 VI 4861 Thunbed		52	**		-		2 EVA 4/A	2 849 440	Ev0 4/1		ara B	Man 1 at 5 ast
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101		11/2	A	Rie	220	5/R 4/4	2.5YR 470	7.3YR 6/4	V45	441	
102		11/2	A	Ria	220	- 2,5YR 4/0	2.5tR 4/0	2.5YR 4/0	V3	4811	
103		11/2	AE8	Ria	290	10R 4/1	10R 5/4	2.3YR 4/0	VI	4011	
104		T4/2	8	Ria	420	5YR 2.5/2	5YR 4/1	5YR 5/2	1112	3/4AL	
0		T1/2	AC	Ria	160	SYR 7/4	57R 5/1	5YR 4/1	•	U/S	
104		11/2	1	Rin	320	5YR 3/1	5YR 4/1	5YR 5/3	•	U/S	
107		11/2	8	Ri w	300	2.59R 4/2	2.5YR 5/0	2.5YR 5/6	171	4A1	
104		11/2	ð	8ja	260	5YR 4/1	2,5YR 5/0	5YR 6/4	AA46.4	4AI	
307		11/2	Þ	Rin	75	2.5YR 5/6	2.54R 5/0	2.5YR 2.5/0	Y115	4At	
110		11/2	č	Handle	· **	548 3/1	2.5/R 4/Q	5YR 4/2	VI	40 i i	
411		T1/2	Ę	Handle		51R 5/1	2.31R 4/0	4/4	AA117	441	Thumbed
112	M178	72	AC	Ria	180	5YR 6/4	2.5YR 5/0	Syr 7/4	+	U/9	: II MWF44
114	37	1 44	M.	u h m	160	JIN DAY	21316 379	210 179	*	0/3	
113	• ,	12	AEB	Ria	340	5YR 6/4	5YR 5/1	7.5/R 6/4	AA306.1	4Ai	Thumbed
114	H176	13	k	Ris	220	2.54R 6/6	2.5YR 4/6	2.5YR 5/6	•	0/5	11000000
9	39	•		.11.4	•••	212111 575	#1#11 1· ·	238(71 47 5			
ilis	HEIS	12	A	Rte	260	2.5YR 524	2,5YR 4/0	2.518 5/2	•	9/6	
	155			****	****	0101111	210111 174			J	
118	1170	12	AB	Rin	250	7.518 614	7.54R 6/0	7,5YR 6/4	346.1	481	
	14						71820 014	, 511, 21 1	0,211		
117	•	12	A	₹i a	140	5VR 7/6	2.5YR 5/0	5/R 6/4	•	U/S	
111		12	Á	frim	189	2.51R 5/6	2,5fR 5/4	2,54R 6/6	MIE	4Ai	
114	M115	12	Ä	Rim	340	5/R 7/6	2.5/R 5:0	2,5:R 6/4	•	U/S	
	91	· •	.,		410	271. FIG	4121), p. /	2,2		• •	
ੌ 120	M115	12	A	ŘÍA	295	7.5YR 6/4	7.5YR 4/0	7.519 6/4	+	U/S	
<u> </u>	fié		• •	11.51	• '-	71511(5) 1	712111 174	*****		•	
121	" •	†2	A	Rim	200	37R 674	2,5YR 470	2,54R 5/4	•	U/¢	
Ú 7 9		12	Ä	Ria	240 -	2,51 5:4	2.57 5/4	2.51 5/4	110.2	4911	Thuebed
123		12	Ä	Ria	230	5YR 574	5YR 3/1	51R 6/6	#26	46	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
334		12		Riu	240	5/R 4/4	7.54R 6/0	5YR 6/2	4	U/S	
្រីវា	#115	12	Ā	Rin	160	2.5YR 5/2	2,5YR 5/0	2,348 6/6	•	U/S	
	150	••	•	04.		Clark man	WINDS NO.	2,011. 010	,	474	
194	100	72	٨	Ria	260	2.5YR 6/8	2.5YR 6/0	54F 6/6	A4509	461	Thumbed
		12	Ä	Rin	250	2.5YR 4/4	2,5YR 5/0	2, 51R 6. 6	Vi	4Bi i	Thumbed
		12	Ä	Pia	230	5/R 6/6	2.578 5/0	2,548 5/6	¥7	4611	Thuebed
	M170	T2	4	Rim	210	2.5YR 5/4	2.578 3/0	2,519 5/6	M10.2	191	11124444
	54	14	7	P. P	210	TISTA SIT	41477 974	4,017 2/8	MIVIA	7831	
i i	#115	t2	A	Pin	200	5YP #14	TARR ATO	7,5YR 7/4	•	975	
	372	14	п	1. 1 mi	407	31F 4 '4	TESTE GIV	Sparn 7 H	•	3,3	
	•/•	72	A	Rin	230	2.5YF a/6	2.51# 5/0	2, 19 条 4/6	•	U/S	
		†2	6	Ria	4 90	2.3sk 6/6	5/R 5/1	2.5YP 6/6	, •	U/\$	
	#178	12	i	Pi a	136	578 4/a	2,5YR 4/6	2,51R 6/6	W54	4AL	
4	72	∤ •	•	FIT	130	2 FM 40 - 6	Track ave.	4,31F B/B	W) Y	751	
144	1.	72	r	Bin	130	519 4/2	2,5YR 5/8	5YR 4 1	•	y s	
¥ en		12	[[ran Rin		10:8 3 /2	2,318 7 g	_		V a VA:	
		12			136			7,5/8 3/2 7,5/8 5/2	¥ 45 ⇔€5		
	W) 15 F		Ç 1	Asa Bio	140	\$45.0/6	518 5/1 3 5/8 5/1	7,5+R 6/4	#\$2 **3	44	
37 7 /		14	Ļ	Pis	100	7,548 1/2	3.5YR 4/6	7,51F 5/2	163	TA i	
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130 8		12	C	Rim			5YR 3/8	5YR 6/1	5YR 6/4	Y62	4 4 1	Thumbed applied strip
134		12	Ľ	Ria	150		7.5YR 7/4	2.5YR 4/0	2.5YR 6/9	V1	4B1 i	
140		12	C	Rea	140		2.5YR 6/8	2.5YR 5/0	2.5YR 5/8	+	U/S	Rouletted
141		72	C	Body			5YR 7/8	5YR 8/0	7.5YR 6/4	Y115	4A1	Rouletted
142		72	C	Rim	140		2.5YR 5/6	5YR 3/1	2.5YR 6/6	•	U/3	Rouletted
143	M178 63	12	ABC	9250		200	518 6/2	7,5YR 5/0	5vR 7/1	•	U/S	
144		12	J	8444		340	2.5YR 6/6	2.5YR 4/0	2.5YR 4/2	•	U/\$	
148	H115 256	72	ADC	Bese		360	2AB 441	2.5YR 5/6	\$VR 774	•	U/S	Self-slip
146		12	ABC	Best		140	7.518 6/4	2.5YR 4/0	5YR 6/4	AA392.2	4Ai	Salf-alip
147	M178 87	T2	£.	Handle	140		5YR 7/6	2.5YR 5/0	5rR 7ra	AA117	#A1	Thuabed
140	M178 87	†2	C	Handle			SYR 7/6	2.5YR 4/0	•	AA373	4A1	Thumbud
149	•	12	C	Rie & handle	140		2.5YR 5/6	5YR 6/1	2.5YR 5/6	125	4A! 1-B1	Stabbed
150	M115x 149	72	. •	Handle			51R 4/4	2,54R 479	518 7/6	N5.2	44	Stabbed
181	141	12	AC	Body			558 616	2.5YR 4/0	51R 4/4	AA71	461	Stamped and combes
182		12	AC	Вару			*/8 6 /4	2,548 5/0	7.518 7/4	AAS?	4A	Rouletted applied
tel	M115 542	12	ABC	8567			\$10.674	2.5rR 5/0	5YF 716	#54	4AJ	Rouletted
134		72	C	Bod,			1,5YR 6 5	7,5/R 7/4	2,518 676	AA117	4AL	Proletted
185		12	ABC	toa,			5/8 6/4	5 rR 5/3	548 624	452	46	
156		12	ABC	800			7,546 616	7.5/R 8/0	5-5 7-2	M26	44	Increed
\$7		12	b .	Rim	90		2.51R 615	2.5YR 5/0	2,548 5:4	4697	4Ai	
46		12	D	Pase	-	22	51R & 4	2.598 4/0	54R 4/2	731	4A11	
159		12(2)	Č	14#	179	-	518 515 51 6144	548 \$23	\$6.474	NIB	4Ai	•Pertial glaze
A O		12(2)	ŗ	8ì a	126		7,5+5 (1/6) 5+ 4/4+	7.54N 5:0	7.5YR 5/0	AA5	481	efartial slip and glase
157 160 161		1, 20	ί	Base		10/-	5/8 5/2 St 4/44	2.5/R 1/0	518 3 4	AA397	4A1	Practial glaze, cervential slaps
							\$1.7/6185					
42	#115 133	tala 1	C	Handle			51R 5/2 51 5/49	2. 5 18 570	•	A19	44	+Blaze
43		74	If	F14	~		SYR 5/4	54R 4/1	\$4R 473	k.	974	Ponietted
44		VEGE	AC	R+ a	126		2.5YR 4/4	2,588 675	STR & &	12	4Ali	
48		at (1)	AC	Pis	110		2.84P 4/6	2.59P 6/9	2.51° 5/8	M52	łA	
46		V1 (1)	Á	814	140		2,548,472	2.5YF 6/0	7.54R 516	V1	19/1	
47		VI (1)	Ħ	Ř] #	210		2.578 676	2.518 5/2	2,518,514	¥75	4Aj	
10		A141 -	8	P) A	400		SYR 5/3	7.5YP 3:0	548 773		461	
Į.		VIII	Ŭ	Rin	400		2.57R 5/4	STR 5/1	2,518 8 5		Ų. Š	
? 0	M1151	Map	B	Ris	340		2,518,676	39R 6/1	2.5YF & &	18	4Ai j	
©: Solt	171											

	V1(1)	8	Rim	420		2.5YR 4/2	5YR 5/L	2.5VR 6/6	į.	U/S	
	V1(1)	?A2	Hendle	147		51R 6/6	518 5/1	-	N5	441	Stabbed
	V1 (2)	8	Complete	140	133	108 4/1	2.5YR 4/0	7.3YR 6/4	AA536	481/11	*Partial glaze
	***	•	vesse)	140		5Y 6/84	#15/10 12 Y	7441N 471	1777		-, 0 , 0
	V1 (2)	C	RIA	140		10YR 3/4	2.5YR 5/B	2.5YR 6/0	Y73	4A1	
	V1 (2)	Ç	Rie	130		2.5YR 5/4	SYR B/J	2,5YR 5/4	AA346.)		48) eze
	41147	٠	F	130		5YR 6/80	ALC DIT	5/R 4/8*	UNAZBI I	704	-51010
M115X	V2	ÐC	Body			2.5YR 6/6	2.5YR 5/0	51R 274	+	U/S	Thumbed applies
177	14	PC	PUU Y			ZiJIN GID	2.310 370	JIR 714	'	U/ 3	strip and combing
177	V2	AEB	Body			5YR 6/6	2.5/R 4/0	5YR 6/4	AA346, I	4Ai	arrish time compatish
	743		Pin	210		5YR 3/1	7.5YR 6/0	5YR 4/1	163	4Ai	
		A								48i i	
	V3	Ą	Rim	230		7.5YR 3/0	7.5YR 4/0	7.5YR 3/0	VJ		
	V3	À	Rin	280		2.5YR 4/0	2.5YR 4/0	2,5YR 4/0	W5	4A1	
MJ15K	73	K	Rie	1 8 0		7.5tR 4/0	7.5YP 4/0	10YR 9/2	K5	4Ai	
179						A #3:1P				u . =	
	₽4	В	Ria	1500		2,5YR 6/6	2,5YR 4/0	2.5YR 6/6	*	U/\$	
	V a	A	Ria	300		SYR 7/4	2.5YR 4/0	7.5YR 7/4	AA309	4Ai	
	₹4	Ç	N. a	120		7.5YR 7/4	7.5YR 8/0	5YR 8/4	#1B	4AL	
	Vè	D	Rin	100		2.5YR 6/4	5YR &∴I	2.5YR 2.5/0	+	1275	
	77 (1)	[R: n	140		51R 4/6	2.5YR 5/0	2.5YR a/8	W25	4A	
	77 (L)	Ċ	Rim	120		2,5YR 6/8	2.5YR 6/0	2,5YR 5/8	V1	4811	
	V7111	38A	Body			2.5YR 6/8	2,5rR 6/0	2.5YR 4/6	٧I	481 i	Rooletted
	V7+1+	Ĭ.	Handle			51R 6/3	5/R 8/1	5YR 7/4	35CAA	4A1	•61 az e
						54 5/68					St ebbed
	V7 (2)	Ċ	Pjr	150		2.5YR 6/6	57R 6/1	51R 7/6	W55	4Ai	
	# 1	A	Řim	159		2.5YR 4/0	5YR 8/1	\$18 6/1	AA345	4Ai	
	W)	A	Rim	140		5/8 5/1	7.51R 5/0	StR 611	V1	4811	
	WI	A	Rie	120		2.5tR 3/0	2.5Y# 310	5Y# 8:3	,	U/3	
	MI	A	Ria	160	-	2,5YR 3/0	2.51R 4/0	51R 7/3	17	4811	
	#1	A	Rin	150		7.548 5/6	7.518 6.0	7,54R 6/0	27	3/4AL	
	W.J	À	Rin	150		7.5YR 3/6	7.518 410	518 7/3	71	4811	
	Ni	Ä	Ria	120		108 5/1	7.5YR #/0	5YR 5/1	M3	4Di i	
M115	NI	À	Ria	150		2.5YR 3/0	2.5YR 3/0	2,51R 3/0	+	U/S	
\$13	**	n	11.14			FIGHT DIA	#19IN SIV	FIRM ALA	•	9,4	
313	WL	A	Ř1 A	140		5/R 3/1	5YR 9/2	5YR 4/2	#26	46	
	MI W.	Ä	Rin	B0		2.57R 4/0	578 6/1	2.5YR 4/0	AAZ74	4Aj	
	#1	ĒÐ	Mandle	ĐΨ		2.548 4/6	2,548 4/0	414 M 474	HNO/6	975 975	
H++#		82						T-0.7/2	•	975 814	
M115	M)	B.	Spout			5YR 6/1	7.5YA 7/0	518 7/2	•	0.4	
230	ald a Paralla		A			4 course a res	4 5 6 4 5	Dak A.	146	44	
	M7(1(1)	¢	Ří#	100		10YR 6/3	101P 0/2	10 48 8 75	V1	4811	
MJ15	MARION	A	Ria	130		54R 074	54R 8/1	7.51R 8/4	V1	4 0 1 i	
513			_								
	Matha		Pin	120		548 8/1	2,5/8 4/0	518 7/4	AA324,2	U/S	
	斯尔特特 拉尔		#in	125		7.37R 776	SYR B. L	5/P 8/1	AA)3	4Ai	
	MIN (1911) VA	À	Řím	140		5YR 8/2	548 B. L	51P #/2	1	D/S	PPsint
						37R 776#					
	期供由作	AE B	Bridy			5Y #/1	54R 8/1	5YR 0/1	AA13	4A)	#Paint
						5YR 6/61					

\$9°. (}- (9)											
? ∂209	93 (2)	A	Rim	210		7,5YR 4/0	7.5YR 5/0	7,5YR 3/0	۸I	48i t	Incised
210	W3 (2)	AB	Body	-117		2.5YR 4/0	2.5YF 4/6		V24	4Ai	Includ
211	W7 (1)	38A	Ria	140		2.5YR 6/8+	7.5YR 7/4		AA117	4Až	(Full glaze
315	M7 (1)	¢	Rie and handle	120		5y 7/B#	5YR 7/6	5Y 7/4#	AA49	4 Ai	eFull glaze Slashed
213	W7 (4)	AB	Ris	300		2.5YR 3/0	5YR 5/1	2.54R 3/0	Y62	4Ai	
214	W7 (4)	ABC	Bady			2.5YR 5/8	2.5YR 3/0	7.5YR 6/2	•	U/S	
218	W11 (3)	8	Rta	360		7.5YR 8/4	7.5YR 5/0	51R 8/2	•	U/S	
216	M11 (3)	CF4	Base		68	7,5YR 8/4 5Y 6/6#	7,5/R 5/0	54R 8/2	255.3	4AL1	ePartiel gleze
217	W11(7)	C	Bady			5Y 7/8#	7.5YH 4/0	TOYR B/3	¥52	4A	Afull glaze Rouletted applied Strip
210	W11(7)	C	Nandla			57 5/6#	7.57R 7/0	7.5YR 8/4	•	U/S	9Glaze Stabbed
219	N13	A	Ria	061		2.578 6/8	2,5YR 6/6	2.5YR 5/8	Y32	4ALI-BI	
220	W13	8	fin	140	•	51R 6/6	5YR 8/3	5YR 6/8	¥32	4A11-81	
221	N14	Ĺ	Pie	120		5Y 4/4#	5YR 7/6	5YR 7/6	V24	461	*Blaze Applied pad
222	WI 4	C	Body	•	•	5Y 4/8#	5YR 7/5	10YR 9/4	VĮ	4011	+6laze Incised
223	?W14	C	Hendle			5y 5/6# 5yr 3/2(#)	7,51R B/4	7.5\R 8/4	AAPI	4ñi	Afull glaze (*)Glazed applied strip Plastic arnamentation
224	W14	AC	20dy			39 5/44 2.59R 3/2(4)	2,5/3 8/6	548-776	AA92 AA98	4Ai 4Ai 1	#Blaze (*/Stip Stamped and roulettes
225	H14	ABC	Bod;			37 6/84 108 3/3(+)	54R 974	SYP 8:4	¥ 99	4 41	#Slaze (#)Slip Stabbed and rouletted
3 *	Wib	AEB	Rie and Jug	200		10R 4/4 51 6/6#	2.5YR 5/4	10R 4/3	¥8	4Aj i	Afartial glaze
397 H115 377	W16	٤	Rie and handle	150		108 4/2	JOR: 473	10R 4/2	AA30£	1 iAP	
328	414	C	Rim and body	100		2,5YR 4/2 5YR 2,5/24	2.5YP 5/6	SYR P/3	•	1 27 \$	*Partial glaze and inscription
924 730	W18	Ç	Rim and hendle	106		108 574 +108 374	2.5¥R Um	IGR \$/6	1\$	4611	
\$30	MIT	59	Pie	400		104R 8/4	1048 9 73	2.598 B/5#	M16.7	4811	461 az e
.441	W13	A	Ria	146		10.6 774	19VR 3/1	548-8/3 54-3-4#	4 3)	(fix)	Afartial glaze
21 2	MIB	A 1	Ři ∉	110		54R 976 54 676	2.5th 4/0	5th B/2	Y11	4A11	
233	#19	b	fia	460		5YR 3/1	SYR 2,5/1	IAR 6/3	(31	4AI i	
	MIE	Eò	Complete vessel	400	250	51R 5/3	7.5YR 4/2	37R 7/6 37 5/44	19	fAi i	#Partial glas#

235		E EW	C	Couplete veses!	120	145	7.5YR 8/2 5r 5/6#	2.5YR 4/0	7.5YR 8/2	Y14	4A1 ì - 81	efertial glaze
236		W18	Ė	Base		320	5YR 8/4	7.5YR 4/0	5YR 8/2	24	4Bii	
237	M115x 234	MIS	•	3.00		200	39R 7/1	7.5YR 4/0	57R 8/1	A)	481 i	•Partial glaze
236	#115 393	W18	¢	Base		120	54R 7/6 54 5/64	2.5YR 4/9	5YR 8/I	80EAA	4A11	
239	#115 381	MTB	ASC	Handay			5YR 7/4 5Y 5/49	2.578 4/0	57 474	AA62	4A11	*Partial glace Slashed
240	5 4, 2	MTB	63	Bung-hal	•		518 7/4 54 6/8#	2.8YR 4/0	5YR 6/4	•	U/\$	Partial glaze
241		W20(1)	A	Ria	220		2.5Y 3/0	2.57 4/0	2. 5 9 3/2	W52	4A	
242	M178 126	W20(1)	A	Rie	220		2.57 370	2.57 4/0	2.5Y 3/0	W\$2	4 A	
243		N20(1)	AC	Pin	129		2,37,270	2,58 6/1	2.5Y 370	#60	4.6	
244		M20(1)	83A	Rin	140		7,548 7/2	5YR 8/3 2,5YR 3/0+	2.518 4/0	AA73	4611	*Sandwich core
243		M2011)	£	Base		146	5YR 5/6	2.5YR 370	51R 5/6	N52	46	
246		W20 (2)	B	Complete profile	189	140	5YF 5/1	2.5/P 6/0	7,5/8 7/2	AA62	4A11	
247		W26 (2)	C	Pia	105		2.5YP 3/0	2.5YR 470	2.5YR 4/0	6867	4A) i	
240		M21	LF	Rta m	100		51 4/44	3YR 8/1	59 4/44	Y.72	4A11-B1	sfull glaze
249		W29	AC	Fis	155		2.5YR 6/8 5YF 5/84	2.5YR 678	2.5YA 6/8	•	IJ/\$	sPartial glaze
250		129	R	Rim end base	140	126	5YR 7/4	2,5YR 7/0	5/R 7/4	•	97 S	
251		#29	63	frame		180	2,51R 6/5	2.5YR 6/0	2.5YR 6/6	AA5	481	Thusbed
251 252		N32	ß	Ři a	260		10R 471	2.51R 6/8	2.51R 5/4	121.3	4Au	
253		N32	9	Fia:	260		10R 471	2.5/8 6/8	2.5YR 6-6	r 9 0	3/6AL	
254		W34	A	Pin	•.		2.5YR 2.5/0	2.5/R 4/0	318 376	¥118	3-4A	
255		M49	ÇF	Rin	100		5YB 4/1	7.5YR 4/0	\$YP 4/1	校里	4Bil	
284		₩Ŝŷ	AC	Base		50	108 5/4 2.5/R 3/6*	10R 3/8	108 5/4 2.5YR 1/6*	HI-344	4Al/ii	effortial glace
257		HG.	į.	Ria	'nŷ		5Y 6/6#	7,5tR 4/0	3r 6/6#	ŧ	07\$	≒Full glaze Rilled
238		11 (1)	ŧ	Ria	100		7.54R 8/4 54 6/6#	7,5¥R 8/4	7.57R 8/4	112	1811	*Partial glaze
(8)	#115 474	XI II)	ARC	Rip	120		7.5YF 8/2 2.5YF 8/3	518 971	7,51F 810	AA203	AAI	
240	•	H(D)	£	Ria	140		1018 772 \$1 1:34	10YR 7/4	10vR 7-3	+	V. 3	eseip faifueds
261		arb	AC.	Din	126		5r 5 4+	2.31 57	Sr 5/44	+	U+5	Woll glage
242		##(1)	C	Body and handle			518 873 51 8754	598 8/1	5% B 3	Y124	4Ai	Warthal glace Incised
261 242 243	#17# 10	###D	c	Handle			37 7/84	51R 8/1		A4509	4A1	+Full glaze

244		£1 (2)	Ç	Body		5Y 4/4#	5YR 8/1	51R 9 /1	AA559	4Aı	eFull glace Combad thumbed applied strips and rilling
265		XI (2)	C	Handle		5YR 8/4 5Y 4/4	7.5YR 8/0	-	W 444	4Ai	1
-244	#115 177	X20	Fla	Êese	53	2.5YR 3/4	10R 4/4 5YR 3/2#	51R 3/2(*)	18	4A1.i	*Partial glaze (*)Full glaze
267		Y 5	CZFS	Base	50	7.5YR 6/2	5YR 3/1	7.5YR 6/4	•	U/\$	•
298	M178 139	76	02F5	Base	80	7.5YR 7/0	SYR B/L	7.5¥R 7/0	•	U/S	
269		23	E 2	Body		5YR 3/3# 2.5Y 8/6(#)	2,548 5/4	2.5YR 2.5/2# 2.5YR 4/4(#)	+	97\$	#Glez e +Slip

(vi) CODIFIED SUMMARY OF POTTERY

Example:

J37 43 T1 W1(2)

A2 84 A836 AB1 92

Layer 337, 43 shends

Fabric Ti:

2 cooking pot, 4 bowl, 36 body sherds: see ill

na 92

Fabric W1(2): 1 body shend

Code of vessel forms in Phase 4

A cooking pots

Al bifids

A2 pipkins

B bowls

B1 Skillets

B2 spouted bowls

C jugs

C1 tripod pitchers

C2 bottles

C3 bungholes

C4 pitchers

C5 Bellarmines

D lamps

D1 candlesticks

E miscellaneous

Ei lida

E2 plates

68 storage jars

E9 pancheons

E10 albarelios

F cups

F2 Cistercian cups

F3 drinking vessels of indeterminate form

F4 tankands

F5 stoneward drinking

vesse)s

G chamber pots

M miscellaneous

Post-Medieval (for

undiagnostic shends which could derive from

a wide variety of

forms).

U unknown

Combinations indicate uncertainty as to vessel type: Example ABC : cooking pot, hawl or jug

AEO i cooking pot or storage jar

Frobably	Phase	3, Fossibly	Phase 4Ai	
Y85	1	W47	AB <u>1</u>	
Phase 3/	<u>IAI</u>			
V7	1	W1	A <u>I</u>	195
V6 3	ĸ	T1 T1/2	AB <u>1</u> ABČ <u>2</u>	
Y17.1	8	518(2) T1(1) T1(3) T2 W3(2)	AB2 AB2 A1 AB1 ABC1 AB1	
Y90	6 3	53/T1 T1(1) T1(2) T1(3) T1 T1/2 T2 V6 W1 TW1/X1(1)Y W2 W3(1) W3(1) W34 X1(1)	D2 B1 AB7 B2 AB7 B2 A1 AB8 ABC11 ABC1 ABC1 AB1 AB1 AB1 AB1 AB1	2553
Y93	ខ	T1(1) T1(2) W4	E <u>1</u> AB <u>5</u> ABCD <u>2</u>	
Y 95	6	T1 (2) T1 W4 W47	AB <u>Z</u> AB <u>I</u> ABCD <u>1</u> AD <u>Z</u>	
Y97	ć,	T1 (2) W4	A92 ABCD4	
Y103	t	53/ [†] 1	AB <u>1</u>	
V112	াজ	T1 T1/2 T2 W54 X1(1)	AB3 B2_ABC10 ABC4 C1	1+14
Y144	2	Ti(t)	48 <u>1</u>	

		7W1/X1(1)/Y	<u>คร</u>	
Y146	1	W34	AB <u>1</u>	
Y150	1	T1(1)	AB1	
7 64	7	53/T1 T1 ?WI8	AB <u>1</u> AB <u>5</u> ABC <u>1</u>	
767	10	RU T1/2	U <u>1</u> ABC <u>9</u>	
AAB7	1	T1/2	ABC <u>1</u>	
AA96	13	T1(1) T1(3) T1 T1/2 W1	AZ AB1 A1 H1 ACZ ABC5 AB1	
AA545	2	T1(4) W47	E8 <u>1</u> AB <u>1</u>	
AA594	1	S1C(1)	AB <u>1</u>	
Fhasa 4A	<u>ii</u>			
V21	19	T1/2 T2(2) T2 V3 W1 W7(1) W7(4) ?W16 X1(2)	881 C3 ABCB ABC1 ABC1 ABC1 ABC1 ABC1	
V23	4	T2(2) T2 W1	C <u>1</u> ABC2 AB1	
V24	5X	93/T1 T1 T1/2 T2(2) T2 V7(1) W1 W3(2) W14 W18	AB1 B1 AD13 ABC2 C1 AI C2 ABC17 ABC1 AB7 AB2 C1 ABC1 B2 ABC1	210 201
V 30	67	TI T1/2 T2	AB2 A1 B1 ABC4 ABC35	

		V1 (1) V3 W1 W14 W18	ABC <u>3</u> AB <u>4</u> AB <u>1</u> C <u>12</u> ABC <u>4</u> ABC <u>2</u>	
434	14	T2(2) T2 T6 V7(1) W47 W49	C1 C1 ABC8 ABC1 ABC1 ABC1 ABC1	
V45	7	T1/2 T2 W1	A <u>1</u> ABC <u>2</u> ABC <u>5</u> AB <u>1</u>	101
∨54	17	T1 T1/2 T2 V1(1) V3 W18 X1(1/2)	AB5 A1 A2 C1 ABC6 ABC1 ABC1 ABC1 ABC1	
W 5	147	53/T1 T1(1) T1 T1/2 T2(2) T2 V1(1) V1(2) V3 V7(1) V7(2) W1 PW1 W14 W18 W14 W18 W20(2) W49 X1(1) X1(2) U	AB1 AB1 AZ AB11 AZ AB11 AZ AB11 AZ AB11 AZ AB02 AZ AB03 AZ AB4 AB01	76 78 168, 172 180, 181
W10.1	3	1.5	овод	
W11	24	T1 T1/2 T2 T2(2) V1(1)	AB2 ABC3 A1 ABCZ C1 ABC1	

		V3 W1 W11 (3) W14	AB <u>2</u> AB <u>3</u> ABC <u>1</u> C <u>2</u> ABC <u>1</u>	
W18	57	T1 T1/2 T2 T2(2) V3 V6 V7(1) W1 W4 W7(4) W11(7)	AB1 ABC4 A5 D2 ABC2B C6 AB3 ABC1 AC1 ABC1 A1 AB1 ABC1 ABC1	118 159 184
MS2	1	12	ABC <u>1</u>	
₩39	7	†1/2 †2 †2(2)	ABC <u>1</u> ABC <u>4</u> ABC <u>2</u>	
₩54	40	T1 T1/2 T2	AB <u>1</u> AB <u>2</u> ABC <u>5</u> C <u>1</u> AC <u>7</u> ABC <u>24</u>	133, 153
W55	16	T1 T2 T2(2) V7(2) W1	AB2 AB2 ABC10 C1 C2 AB1	190
W61	1	12	ABC <u>1</u>	
W111	B	T1 T2 V3 V7 (2) X1 (1) U	ABC <u>1</u> ABC <u>1</u> ABC <u>1</u> ABC <u>1</u>	
X1	C	T2 (2) V4	<u>∨861</u> 61	
XZ	8	T1 T1/2 T2	002 ABC2 ABC4	
X15	4	11/2 T2 U	ABCZ APCI 1	
Y1	17	T1 (1) T1 (2) T1	AB3 AB1 A1 AB1	

		T1/2 W1 ?W1/X1(1)/Y	ABC <u>9</u> A <u>1</u> AB <u>1</u>	
Y 35	12*	T1/2 T2 T2(2) V1(1) V3 W7(1) 7W18	ABC1 A1 ABC1 C1 ABC1 ABC2 ABC4 C1	
Y45	226	T1(1) T1 T1/2 T2(2) T2 V1(1) V1(2) V2 V3 W1 W7(1) W7/W22 W13 W22 U	AB3 D1 A1 B5 D3 ABC25 C11 ABC5 AB B3 CB AC4 ABC56 ABC15 ABC10 ABC4 A6 B4 AB6 A1 A2 B1 1 ABC14 ABC27 C2 ABC2 C2 ABC2	135
Y47	12	12	ABC <u>12</u>	
Y 4 Ð	10	T2 T2(2) W7(4)	ABC <u>6</u> C <u>5</u> (3C <u>1</u>	
Y49	3	T2	ABC3	
Y50	13	†2 †2(2) V3 N7(4)	A1 ABC9 C1 A1 ABC1	
Y51	2	TD	ABC2	
Y57	20	T1 T1/2 T2 T2(2) T6 V1(1) V5 V7(1) V0 W3(3) W14 W49	61 AI AB1 ABC6 ABC5 C1 ABC1 AB1 AB2 AB1 C2 ABC1	

¥56	10	T1/2 T2 V3 W14	ABC <u>3</u> C <u>1</u> ABC <u>3</u> ABC <u>1</u> C <u>1</u> ABC <u>1</u>	
Y57	2	T2	ABC <u>2</u>	
Y40	8	T2 V3 W18	ABC <u>1</u> ABC <u>1</u> ABC <u>3</u>	
Y62	261	RS T1(1) T1(2) T1(3) T1(4) T1 T1/2 T2(2) V1(1) V1(1)/T2 V3 V7(2) W1 CW1/X1(1)/Y W7(1) W7(4) W11(1) W14 W18 CW18 W18 V49 V1(1) V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1	U1 D1 AB2 ABC1 AB1 AB1 B1 AB1 A1 B1 D1 AB3 A1 AB3 AC1 ABC13 AB C4 ACB ABC115 C9 ABC2 ABC7 B1 ABC12 A3 AB4 ABC1 A1 ABC1 A1 ABC1 A1 ABC1 A1 ABC2 ABC1 ABC4 A1 ABC2 ABC1 ABC4 A1 ABC2 ABC1	137,138 176 213
Y67	1	T 2	U <u>1</u> ,	
¥71	[4	T1/2: T2(2) T2 V3 Wt(3) W1	P1 UI OI AC1 APCZ APC1 AC1 AC1	107
¥72	3	71 (1) T1/2 W7 (1)	001 0001 000 <u>1</u>	
Y7 3	9	T1/2 T2	ABCL C1 ACL ABCE	

		V1(2)	C <u>1</u>	174
Y78	14	T2 T2(2) W7(1) W14 W18	A <u>l</u> AC <u>l</u> ABC <u>6</u> C <u>l</u> ABC <u>l</u> ABC <u>3</u>	
Y 79	3	T2 V1 (1) V5	ABC <u>1</u> AB <u>1</u> A <u>1</u>	167
Y82	26	T1/2 T2 V1(1) V8 W7(1) 1947 W54	ABC1 ABC <u>1</u> ABC <u>5</u> ABC1 ABC1 ABC16	
Y85	3	T1/2 T2(2) V1(1)	ABC <u>1</u> ABC <u>1</u>	
Y91	Ą	T2 V1(1)	ABC <u>3</u> ABC <u>1</u>	
Y 9 2	t	72	ARC <u>1</u>	
Y 9 17	18	T1(3) T1/2 T2(2) T2 W7(2) W14	B1 AB1 ABC3 AC1 A2 ABC7 C1 ABC2	93 225
Y100	31	T1(1) T1(2) T1 T1/2 T2 V3 V7(1) W1	A1 AB4 AB3 ABC5 C1 AC1 ABC11 ABC1 ABC1 ABC1	
¥195	27	T1 (2) T1 T1/2 T2 W3(t) W7(1) X1(1)	685 51 684 6964 6961 6962 6967	
Y106	21	03/T1 T1 (2) (1/2	087 085 087 087	

M or

		T2 T2(2) T6 V1(1) W14 W47	ABC <u>3</u> C <u>1</u> ABC <u>2</u> ABC <u>1</u> C <u>1</u> AB <u>1</u>	
Y10 9	3	T2 W47	A <u>1</u> ABC <u>2</u>	
111Y	4	T1(1) T1/2 W7(1)	AB <u>1</u> ABC <u>1</u> ABC <u>2</u>	
Y113	i	T1/2	ABC <u>1</u>	
Y115	33	T1(3) T1 T1/7 T2 T2(2) V1(1) W14 X1(1)	B <u>1</u> AB <u>4</u> AB <u>4</u> D1 AB <u>1</u> ABC <u>5</u> C1 AC <u>6</u> C1 ABC <u>7</u> ABC <u>1</u> C1	109 141
Y124	30	T1(3) T1 T2 N3(2) X1(1) U	AB2 A1 AB18 C1 U1 ABC1 C5	262
Y129	31	11(1) T1(3) T1 T1/2 T2 T6 V7(1)	AB <u>6</u> AB <u>1</u> AB <u>2</u> ABC <u>4</u> ABC <u>7</u> AB <u>B</u> AV <u>1</u>	
Y132	15	T1 (1) T1/2 (2	AB1 AB0 <u>- 0</u> A2 AB02	
¥177	34	†1 11/2 †2 †6	ABC <u>3</u> ABC <u>3</u> ACZ AEC <u>18</u> ABC <u>1</u>	
¥170	i	Г1/2	A90 <u>1</u>	
221. 3	44	S3 11 (1) 11 (2) 12 12	AB1 A2 D1 AB13 A1 B2 AB5 ABC5 AC2 ABC6	95

		W1 W32 W47 X1(1) U	AB <u>1</u> AB <u>1</u> U <u>1</u> AB <u>1</u> ABC <u>1</u> U <u>1</u>	? 5 2
127	7	RU T1(2) W18	U <u>1</u> A <u>B2</u> B <u>4</u>	
Z39	i	T2	υ <u>1</u>	
AA10	87	518(2) T1 T1/2 T2 T6 V1(1) VB W1 W7(1) W7(2)	OB1 AB3 B1 ABC6 A3 AB1 AC2 ABC51 A3 AB4 ABC1 A1 ABC1 ABC3 A1 ABC3 ABC3 ABC3 ABC3	
AA11	11	T1 (3) T1 T2 W1	AB3 AB1 AC2 A1 AB4	
AA12	46	T1(i) T1(3/4) T1/2 T2 V7(1) TW1/X1(1)/Y X1(1)	AB4 D1 U7 AD1 ABC26 ABC1 A1 AB3 ABC1 ABC1	
Anis	26	T1 (2) T1 (3) T1 11/2 T2 W1 CW1/X1 (1)/Y	AB <u>3</u> A <u>1</u> B <u>1</u> AB <u>2</u> AB <u>1</u> ABC <u>0</u> A1 AB1 AB2	20 5 4 - 208
AA14	39	S1B(f) T1(1) T1(2) T1(2) T7(2) T2 X1(1)	ABI AI ABI ABCI ABI AZ BBI AMIZ CI AI ACI ABCI ABCI	
AA17	৸য়	519(2) †1(1) †1(3)	AR1 BBB TBD	

		T1(4) T1 T1/2 T2 W1 X1(1)	AB <u>?</u> A <u>1 AB3</u> ABC <u>13</u> A <u>1 AB2</u> ABC <u>1</u>	
AA20	72	751A T1(1) T1(2) T1(4) T1 T1/2 T2 T11 V1(1) W1 W4	AB1 A3 AB1 ABC3 A1 AB4 B1 AB1 D1 ABC14 A2 AC2 ABC25 ABC1 ABC3 ABC1 ABC1	
65A4	2	V1 (2) V4/W1B	ABC <u>1</u> ABC <u>1</u>	
AA47	5	T1(3) T1 T1/2 T6 V7(1) W1	AD1 AB2 ABC1 ABC2 ABC1 AD2	
A A4 9	82	T1(2) T1 T1/2 T1/T6 T2 T2(2) T6 V1(1) V1(2) W1 W2(1) W2(4) W47 X1(2)	84 AB1 AL ABCB ABC9 AS B1 D1 AC2 ABCTO C1 U4 ABC2 ABC2 ABC2 ABC2 ABC1 ABC3 ABC1 ABC3 ABC1 ABC3 ABC1 C1	210 265
AA51	1 6)	T1 T1/2 T2 V1(1) V1(2) W7(3)/V6 W14 W18	ABEBI ABCA ABCI ABCI CI ABCI CI ABCE	
PA91	23	T1 (1)	?E6 <u>1</u>	

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T1
                                              ABC 1
                                              BI ABC4
                         71/2
                                              ACI ABCZ
                         T2
                         T2/W7(3)
                                              ABČ2
                         V5
                                              D1
                                              ABC1
                         W7 (4)
                                              ABCZ
ABCZ
                         W11(1)
                         W14
                         W18
                                              ABC I
 AA66
                 51
                         RS.
                                              U1
                                              AB<u>1</u> AB<u>2</u>
                         T1(2)
                         T1
                         T1/2
                                              AE4
                                                                               108
                                             A3 C5 AB1 ABC20
C5
AB2
                         72
                         T2(2)
                         T11
                                              ABŪ<u>2</u>
                         V1(1)
                                              1aan
                         ۷3
                         V7 (1)
                                              ABC I
                         V7(2)
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                                              abi
                        W11(1)
                                             ABC1
                        W14
                                             ABC I
AA66.4
                85
                        T1(1)
                                             ABZ
                        T1(2)
                                             AB\overline{1}
                                             AB<u>Z</u>
                        71
                                             AZ B1 AC1
                        T1/2
                                             4BC6
                        T2
                                             A4 C3 AC5
                                             ABC<u>38</u>
ABC<u>4</u>
                        To
                        V7(1)
                                             ABC\overline{1}
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                        W1
                        W7(2)
                        W7 (3)
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                                             C<u>I</u> ADCZ
                        W7 (4)
                        W34
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                        X1(1)
                                             ABC I
                        X1(2)
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              142
                        11(2)
                                             \Delta B1
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                        T1 (4)
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ABG 17
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AG C2 D1
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                        17
                                            OCTA OBCZ?
                                            A2 ABC1
A1 AD3
                        V7 (2)
                       WI
                                            V<u>B</u>S
                       W2 (4)
                       W14
                                            ABC1
                                            \operatorname{Anc}\overline{\mathbf{I}}
                       W47
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A A 72	59	T1(1) T1(3) T1(4) T1 T1/2 T2 T1; V7(1) Wi8 W22 X1(1)	A1 AB9 AB1 B1 AB1 B1 AB2 ABC6 A2 C2 D2 AC1 ABC2 ABC1 ABC2 ABC1 ABC1 ABC1 ABC1
AA79	110	T1(1) T1(3) T1 T1/2 T1/2 T2 V1(1) V3 V6 V7(2) W1 W7(4) W11(2) W14 W18 W22 W53	B21 AB17 AB4 A4 AC1 ABC10 B1 C416 C3 ABC20 A1 AB5 ABC2 AB1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1
AA ⁷ 7	110	T1(1) T1(3) T1 T1/2 T2 V1(1) V3 V6 V7(2) W1 W7(4) W11(2) W14 W19 W32 W53	#21 AB17 AB4 A4 AC1 ABC10 B1 C416 C3 ABC20 A1 AB5 ABC2 AB1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1
AABS	7	90 71(1) 72	98 <u>01</u> 987 981
กลช4	29	T1 (1)	AD3

		T1(3/4) T1 T1/2 T2 T11 V1(2) V3 V7(1) W14	AB1 AB <u>1</u> AB <u>C2</u> D1 AC1 ABC13 ABC1 U1 ABC1 ABC1 C1 ABC2	
AA89	26	T1(1) T1/2 T2	A1 A82 A81 A5 AC5 AEG 1 ABC10	
AA93	14	W15 T1/2 T2 T2(2) V7(2) W14 U	ABC <u>i</u> A1 ABC1 AC1 ABC3 ABC3 C1 ABC2 C1 UI	723
AA94	7	T1 T1/2 T2 V3 W7(2) W7/N14	AB1 ABC1 ABC1 ABC1 ADC1	
AA77	165	S18(3) T1(1) T1(2) T1(3) T1(4) T1 T2 T6 T11 V1(1) V3 V4 V7(1) W1 W7(2) W14 W18 W22 X1(1)	AB1 AB	157 274
AA99	56	T1 (1) T1 (2) T1 (3) T1	A4 D1 ADZ B2 AB1 AB1 A1 AB4 ABC1	

		T1/2 T2 T2(2) V3 V7(1) W1	A <u>1</u> ABC <u>16</u> ABC <u>6</u> C <u>1</u> AB <u>2</u> ABC <u>3</u> ABC <u>2</u> ABC <u>3</u>	
AA100	38	T1(1) T1/2 T2 T2(2) V2 V3 W7(1) W14	AB3 ABC2 A2 ABC21 C2 ABC1 ABC1 ABC1 ABC1 ABC1	
A A101	29	T1 (2) T1 (3) T1/2 T2	A <u>1</u> AB <u>1</u> ABC4 ABC <u>22</u>	
AA107	17	T1 (4) T2 V3	AB <u>1</u> AB <u>1</u> AB <u>1</u>	
801AA	14	T1/2 T2 T6	ABC <u>1</u> C3 ÄBC <u>8</u> A <u>1</u> ABC <u>1</u>	
AA117		T1(1) T1(4) T1 T1/2 T2 T2(2) T6 V1(1) V6 V8 W1 W1(1) W1(1) W1(1)	A1 PB8 A1 AC1 A1 AD5 A2 C1 AB4 ADC26 A3 E3 C7 AC10 ABC170 C4 ABC1 A2 AB2 ABC4 ABC4 AC1 ABC3 ABC1 ABC1 ABC2 ABC2 ABC2 ABC2	100, 111 147, 154 211
AA134	22	71(1) 71/2 72 V3 W1	AC1 CZ ABCIT ABCI ABCI ABCI	
AA203	166	S1B(2) T1(1) T1(2)	2AR1 A4 AB12 B3 A1 AB2	

		T1 (3) T1 (4) T1 T1/2 T2 T2 T11 V4 V5 W1 W1/X1 (1) W3 (2) X1 (1)	B2 AB14 B2 AB1 A7 B5 AB47 A2 B2 AB1 ABC27 ABC1 A1 ABC2 ABC1 ABC3 A1 AB5 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1	259
AA204		T1 (1) T1 (2) T1 (3) T1 T1/2 V5 W1 W1/X1 (1) TW1 (3) X1 (1)	A1 AB8 AB1 B1 AB1 A1 AB19 AE81 ABC26 A1 A1 AB1 ABC6 ABC3 AB1 ABC2	
AA210	1 🖯	T1(t) T1 T2 T1/2 V1(2) V6 W1 W3(2) W8	A2 AB2 B1 ABC1 A1 ABC1 ABC3 ABC1 ABC1 AB1 ABC1	92
AA213	4	T2	ABC4	
AA307	2	72 W18	ABC <u>1</u> C <u>1</u>	
AA309	11	T1(1) T1/2 T2 V1(2)/W29 V6 V7(1) W49	AB <u>4</u> ABC <u>1</u> ABC <u>1</u> ABC <u>1</u> AG <u>1</u> ABC <u>1</u>	183
AA321.1	10	T1/2 T2(2) T2	AE8 <u>4</u> C <u>1</u> AC <u>l</u> ABC <u>4</u>	
AA327	1	W11 (1)	C <u>1</u>	
AA332	14	T1(1)	AB <u>1</u>	

		T1/2 T2	ABC <u>3</u> C <u>1</u> ABC <u>9</u>	
AA341	19	T1(1) T1/2 T2 V3 W1(2) 7W1 W7(1) W18	B1 ABC1 A1 ABC9 ABC1 AB1 7BE81 ABC2 AC1 ABC2	
AA343	1 1	T1/2 T2 W7(4)	ABC <u>3</u> A <u>2 C1</u> AC1 ABC <u>3</u> ABC <u>1</u>	
AA344	41	T1(1) T1 T1/2 T2 T2(2) T6 V1(1) V1(2) V7(1) W7(1) W14 W18 W47 X1(1)	A1 AB3 AB1 AB1 ABC1 A1 C2 AC2 ABC7 C3 A1 ABC1 C1 ABC2 A1 AC1 ABC1 C1 ABC3 ABC3 ABC1 ABC1	
AA345.1	35	T1(1) T1(4) T1/2 T2 W1 W32	AB4 AB5 AB2 ABC <u>10</u> A <u>1 AB11</u> AB <u>1</u> U <u>1</u>	191
AA345.3	15	T1(1) T1/2 T2 V1(1) W1 W13 W14	AB1 AC1 ABC2 ABC2 ABC2 AB2 C1 C4	
AA346.1	319	T1 (1) T1 (2) T1 (3) T1 T1/2	AZ BB D1 AB13 A1 B1 AB2 B1 AB1 A2 B1 AB5 A14 B3 D2 AB6 AC3 AE85 ABC15 ABCE827 A15 B4 C11 D1	87
			AC <u>25</u> DE <u>l AEBI</u>	113

		T2(2) V1(1) V1(2) V2 W1 X1(1)	ABC121 C2 ABC3 A1 ABC3 A1 AEB7 ABC2 AB2 C41	116 175 177
AA353	1	T2	AC <u>1</u>	
AA370.1	4	T1(3) T2 T2(2) W1	AB <u>1</u> ABC <u>1</u> C <u>1</u> A <u>1</u>	
AA370.2	1	T1/2	ABC <u>1</u>	
AA371	19	T1(1) T1/2 T2 W7(1) W7(4) W14 W18	A1 AB4 AB4 ACI ABC5 C1 A1 C1 ABC1	
AA373	7 8	T1(1) T1(2) T1 T1/2 T2 V1(2) V4 W7(4)	A4 AB11 B1 AB9 A2 AB1 ABC17 A5 C1 AC9 ABC34 C2 ABC1	94 1 4 0
AA375	19	RU T1 T1/2 T2 V7(1) W14 ?W18	U <u>1</u> AB1 ABC <u>1</u> ABC <u>2</u> A <u>2</u> ABC <u>6</u> C <u>1</u>	
AA376	7	T1/2 T2 W1 X1(2)	ABC <u>2</u> A <u>1 ABC1</u> A <u>2</u> ABC <u>1</u>	200
AA377	31	T1(1) T1 T1/2 T2 V7(1) W1 W32	AB4 A1 B2 AE81 AB7 A1 AC1 ABC4 A3 ABC3 ABC1 A1 AB1	8 3

		X1(1)	AC1	
AA378	7	T1(1) T1 T2 W1	AB <u>1</u> A <u>1</u> A <u>2</u> ABC <u>2</u> A <u>1</u>	
AATBB	1	T2	AC <u>1</u>	
AA390	1	T1/2	A <u>1</u>	
AA391	3	T2 W47	ABC <u>2</u> AB <u>1</u>	
AA392.2	1	12	ABC <u>1</u>	146
AA395	4	T1/2 T2	A <u>l</u> AC <u>1</u> ABC <u>2</u>	
AA397	12	T1 T1/2 T2 T2(2) V1(1) W1	AB1 ABC1 ABC5 C1 ABC1 ABC1 A1 ABC1	161
AA400	5	T1 (4) T1 T1/2 W54	8 <u>1</u> A <u>1</u> AB <u>1</u> A <u>C</u> 1 D <u>1</u>	
AA509	45	T1(1) T1(2) T1 T1/2 T2 T2(2) V1(1) V3 V7(1) V8 W11(7) X1(1)	A2 B3 AB3 AB1 AB4 ABC2 A1 AC3 ABC15 C2 AB2 ABC2 ABC1 ABC1 ABC1 C1	126 263
A A5 12	17	T1(1) T1 T1/2 T2 T6 K1(2)	AB1 AB2 ABC1 C3 AC1 ABC7 ABC1 ABC1	
AA522	14	T2 T2(2) W1 W3	ABC <u>2</u> C <u>1</u> A <u>2</u> ABC <u>1</u>	

		W7(4) W14 W18 X1(2)	ABC <u>1</u> ABC <u>3</u> B <u>1</u> ABC <u>2</u> ABC <u>1</u>	
AA524	2	T2(2) W22	C <u>t</u> A <u>1</u>	
AA525	tó	T2 V1(2) W1 W7(2) W11(1) W49	A <u>1</u> ABC <u>4</u> ABC <u>1</u> AB <u>1</u> ABC <u>1</u> C <u>1</u> ABC <u>1</u>	
AA527	5	W14 W49 X1(1)	ABC <u>1</u> ABC <u>1</u> C <u>3</u>	
AA529	28	T1 T1/2 T2 W7(1) W47/W49 W56	A1 D1 ABCB ABC3 ABC12 ABC1 ABC1	
AA530	38	T1 T1/2 T2 V7(2) W1 W7(1) W14	AB3 AB2 ABC8 A4 AC3 ABC14 AC1 A1 ABC1 AC1	
AA531	1	T2	ACT.	
AA533	2	T2	ABC <u>2</u>	
AA538	₽4	T1(2) T1/2 T2 T2(2) T6 V7(1) V9 W7(1) W7(2) W7(4) W18 W49 X1(1) X1(2)	AB4 ABC4 AZ C1 ABC19 C24 AC6 A1 AB2 ABC3 C1 AB2 C1 AC1 ABC3 A1 ABC3 ABC1 ABC1 ABC1 ABC1 ABC1	187
AA544	6	T2 W1 W22	ABC <u>2</u> AB <u>C</u> 1	

		X1 (2)	ABC <u>1</u>	
AA558	5	?W1B	A <u>1</u> AE8 <u>4</u>	
AA559	14	T2 V1 (1) W14 X1 (2)	ABC <u>5</u> ABC <u>1</u> ABC <u>1</u> C <u>7</u>	264
AA562	6	T1/2 T2 V3 W11	AB <u>2</u> ABC <u>2</u> ABC <u>1</u> C <u>1</u>	
AAS64	40	T1/2 T1/2/T6 T2 T6 W7(4)	ABC <u>3</u> A <u>1</u> A <u>1</u> C2 AC5 ABC <u>26</u> AC <u>1</u> ABC <u>1</u>	
AA571	2	₩11 ₩18	C <u>1</u> ABC <u>1</u>	
AA572	11	T1/2 T2	A <u>1 ABC5</u> A <u>1 C2 AC1 ABC1</u>	
AA576	11	T1(1) T1/2 T2 T2(2) W7(1)	A <u>1</u> AB <u>2</u> ABC <u>3</u> AC <u>1</u> ABC <u>1</u> C <u>2</u> ABC <u>1</u>	
AA582	46	T1(1) T1(3) T1(4) T1 T1/2 T2 T6 W1 W18	B1_AB1 AB2 B1_AB2 AB2 AB05 A4_AC2_ABC21 ABC1 ABC1 ABC2	
AA584.2	5	T1 (4) T2(2) W18 W50	AB <u>1</u> C <u>2</u> ABC <u>1</u> A <u>1</u>	
AA586	9	†1/2 †2 W45	ADZ A <u>1</u> ABC <u>5</u> ABC <u>1</u>	

Probably Phase 4Ai

AA85 2 W7 (4)

ABC2

AA526	7	71 (2) 71 72 (2) W1 W18	AE01 A1 A2 A2 A2
AA574	2	T1/2 W18	ABC <u>1</u> ABC <u>1</u>
AA583.2	2	71/2 72	ABC1 C1
Phase 4Ai	2		
AA548	1	W18	ABC <u>1</u>
AA592	2	T2 V1 (1)	A <u>1</u> ADC <u>1</u>
Phase 3//4	<u>1611</u>		
W45	1	T 1	A9 <u>1</u>
Y89	3	T1/2 W3(1)	ABC <u>1</u>
Y118	5	SIB(1) T1(1) T1(3) W34	AB <u>1</u> AB <u>1</u> AB <u>1</u> A <u>1</u> AB <u>1</u>
Frobably F	<u>'hase</u>	4Ai, Poss	sibly Phase 4Aii
AA506	41	T1(3) F1/2 T2 T2(2) T6 V1(2) V7(1) W8 W14 W15 W16 X1(1)	AB1 ABC3 AC1 ABC25 C2 AB1 ABC1 ABC1 ABC2 C1 ABC1 ABC1 ABC1 ABC1

Phase 4Ai/ii **V35** 7 T1 AB1 ABC2 T2(2) T2 ABC<u>Z</u> V3 AB1 ?W20(2) ABĒ1 W26 167 T1(1) AB1 ABC2 A1 B2 AB2 T1(2) T1 (3) Вī A1 A89 ABC4 B1 AB9 ABC19 A2 C1 AC2 ABC46 C3 C2 T 1 T1/2 T2 123, 156 T2 (2) 162 ?T2(2) V1 (1) ABC3 ABC<u>&</u> V1(2) ABSTABCZ V3 V7(1) A2 C1 ABC5 186 V7 (2) ABC1 **V9** AC<u>1</u> ABC<u>2</u> A1 199 W1 W7(1) ABC1 ₩B ABCI ABC3 W11(7) W13 ABC2 W14 A903 ?W14 ADC 1 WIS ABC1 7W18 ABCI W20(2) ABC2 W47 AB1 W49 ACI ABC5 W54 ABĪ Z17 U<u>1</u> U บฐ W52 165 93/T1 75 A1A2 62 A65 A2 91 A69 A908 A2 09 A011 T1 79, 95 T1/2 12 136, 150 1<u>8077</u> T2(2) C<u>5</u> A<u>1</u> AC<u>1</u> V1(1) 165 V7(1) ABC3 V7(2) ABC<u>2</u> W1 AB1 ABČ 1 W11(1) CZ ABC4 W11(7) 217 W20(1) AZ ABITACI 241, 242, 245 ABC5 ?W20(1) ABC<u>3</u> ABC 1 W22 ARC1 W50

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₩60	1	W20(1)	A <u>1</u>	243
AA54	7	T2 W7(4) Wi4 TWI8	ABC <u>1</u> ABC <u>1</u> C <u>1 ABC2</u> ABC <u>2</u>	
AA57	214	T1(1) T1 T1/2 T2 T2 T2(2) V1(1) V3 V6 V7(1) V7(2) W1 W7(2) W1 W7(3) W7(4) ABC1 W8 W11(1/5) W14 W18 W22 W49 X1(2)	AB19 A1 B2 AB1 A4 ABC14 A4 C2 D11 D1 AC15 ABC5 C10 ABC5 B4 AB1 ABC3 ABC2 ABC1 ABC3 ABC3 ABC2 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1	152, 155
AA320	34	T1 (4) T1 T1/2 T2 V1 (1) V11 W3 (2) W7 (1) W14 W29	AB2 B1 AB7 B1 AB1 ABC7 ABC3 ABC1 ABC1 ABC1 ABC1 ABC1	
AA326	19	T1/2 T2 W1 W7(2) W14 W18	ABC <u>3</u> A <u>1</u> ABC <u>3</u> ABC <u>2</u> ABC <u>1</u> ABC <u>6</u>	
#A3 35	4	T1 T2 V1(1)	ab <u>i</u> ab <u>c2</u> abc <u>1</u>	
AA517	10	T2	ABC <u>2</u>	

		V2 W14 W18 W20(1)	ABC1 ABC1 A1 ABC4 ABC1	
AA520	9	W14 W18	ABC <u>2</u> ABC <u>7</u>	
A9536	13	T2 V1 (2) W7 (2) W15 W18 W20 (2)	ABC <u>2</u> 81 ABC <u>1</u> ABC <u>1</u> ABC <u>1</u> ABC <u>6</u>	173
Phase 4	Air			
W40.1	1	T2	ABC <u>1</u>	
Y3	65	T1(1) T1(3) T1 T1/2 T2 T2(2) T6 V1(1) V2 V3 W7(2) W11(7) W14 W18 W49 U	AB2 B1 AB1 ABC3 C1 ABC4 ABC1 ABC1 ABC1 ABC1 ABC2 ABC2 ABC2 ABC2 ABC2 ABC2 ABC2 ABC2 ABC2	164
Y 8	9 6	T1 T1/2 T2 T2(2) V1(1) V7(2) W1 W7(3) W13 W14 W16 W16 W20(1) W20(2) W21 W29/27 W49 X2a	A2 AB2 ABC12 A1 C2 ABC3 C2 C1 ABC2 ABC1 ABC1 C3 ABC2 C1 ABC2 A1 C1 ABC5 B20 ABC12 ABC2 ABC2 ABC1 ABC1 C1 ABC5 B20 ABC12 ABC1 AB	170 226, 227 234 266

Y11	21	71/2 V7(1) W16	ABC1 ABC2 ABC2	
Y31	200	W18 RM S18(3) T1/2 T2 V1(2) W1 W7(2) W7(3) W14 W17	A11 A6 ABC10 U1 AB1 A2 ABC4 A2 D2 ABC13 ABC1 ABC1 ABC2 ABC1 ABC1 ABC1 BC1 B2	232 158
		W18 W20(1) W20(2) W21 W29 W49 W56 X2a Z7	A2 B3 C4 AC2 ABC100 A1 ABC2 A1 C2 ABC35 F1a1 U2 ABC2 ABC2 ABC2 ABC4 F1	231, 233
Z21.1	10	T1/2 T2 W11(1) W18	ABC <u>3</u> ABC <u>4</u> ABC <u>1</u> ABC <u>2</u>	
255. 3	61	T2(2) W7(4) W11(T) W18	C <u>16</u> ABC1 CF4 <u>1</u> A1 C1 E91 AC1 BE1 ABC3B	214
AA35	38	T1(1) T1/2 T2 T2(2) W14 W15 W18	AB <u>1</u> AB <u>3</u> A <u>1</u> ABC <u>7</u> C <u>3</u> C <u>3</u> ABC <u>2</u> C <u>3 ABC<u>14</u> ABC<u>1</u></u>	
AA55	15	T1(1) W14 W18	ABC <u>1</u> C <u>1</u> ABC <u>1</u> ABC <u>12</u>	
AA59	43	T1/2 T2(2) V1(2)/W18 V3 V7(2) W14	ABCE C1 ABC1 ABC1 ABC1 ABCT	
	1000	and the second second	-	

		W18 W20(i) X1(2)	B <u>1 AC5 ABC25</u> ABC <u>1</u> ABC <u>1</u>	
AA 60	29	T1 T1/2 T2 T6 V2 W7(1)	C3 AC1 ABC7 ABC4 AC1 ABC9 ABC1 ABC1 ABC3	
AA62	70	S1A SU T1/2 T2 V1(1) W7(1) W14 W18 W20(1) W20(2) W21 W29	AB1 AB1 ABC1 C1 AC2 ABC3 ABC1 C1 A2B11 ABC25 ABC6 B1 C1 E17 A1 ABC2	239 246, 247
AA73	87	T1(1) T1/2 T2 V1(2) W13 W14 W18 W20(1) W20(2) W21 W29	AL ACI ABCE ACI BS ABCI B4 C2 ACI ABC45 ABI AEBI ABC2 ABCI BF4 BFC1 BFE9 ABCI	244
AA95	39	T2 V1(1) V1(2) V3 W1 W18	ABC <u>5</u> ABC <u>1</u> ABC <u>1</u> AB <u>1</u> C3 <u>0</u> C2 ABC <u>17</u>	
AA78	8 3	T1(1) T1/2 T2 T11 V1(2) V7(2) W7(3) W11(1) W14	AD2 AC2 AC1 ABC1 AC1 ABC2 AC1 ABC1 ABC1 ABC1 ABC2 C344 ABC14 ABEB1	224
		W18/W29	ABEAT	

		W21 W29 X1(1)	ABC <u>2</u> ABC <u>1</u> ABC <u>1</u>	
AA306	56	T1(1) T2 V1(1) V1(2) V7(2) W1(3) W7(2) W16 ?W17 W18 W20(2) W21 W29	AB1 A1 ABC4 ABC1 ABC1 ABC1 ABC1 C2 U1 F1 C1 ABC27 L1 ABC3 B1 U2 C1 ABC4	227
ААЗОВ	59	T1 T2 T2(2) V1(1) W1 W11(7) W14 W18 W20(1) ?W21 W22 X1(1) SU	AB1 AC1 ABC13 C2 ABC1 AB4 AB1 ABC2 B2 C1 ABC24 B1 AB1 FC1 ABC1 ABC1	238
AA328.1	13	T1(1) T2 V1(2) V6 W14 W27	AB1 ABC <u>3</u> ABC <u>1</u> ABC <u>1</u> ABC <u>4</u>	
AA357	1	S18(3)	AB <u>1</u>	
AA358	4	T1/2 T2 W21	A <u>1</u> A <u>1</u> ABC <u>1</u> Fla <u>1</u>	
AA504	40	T1 T1/2 T2 T2(2) V7(1) V7(2) W1 W7(2) W7(4) W14	AB1 ABC3 AC1 ABC10 C2 ABC10 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1	
* 12 Secretary			ADUQ	A Transport

		W18 W50 X1(2)	ABC <u>7</u> AC1 CE <u>2</u>	256
AA510 AA541	1 27	W16 T2 W15 W18 ?W18 W21	ABC <u>1</u> A <u>1</u> ABC <u>4</u> ABC <u>1</u> C <u>2</u> ABC <u>14</u> ABC <u>3</u> U <u>2</u>	
AA543	103	S1BU T1(1) T1(3) T1 T1/2 T2 V3 W7(2) W14 W18 W29 X1(1)	AB1 B1 AB1 AB2 AB6 ABC12 A1 AE81 ABC9 ABC1 ABC3 ACZ ABC1 C6 AC48 ABC2 C1	
AA568	103	T1(1) T1(2) T1 T1/2 T2 T2(2) T4 V1(2) V3 V7(2) W4 W7(2) W11 W14 W15 W16 W20(1) W20(2) W21 W29 U	AB3 AB3 AB B1 AC1 ABC5 ABC30 C7 ABC3 ABC1 ABC1 ABC1 ABC1 ABC1 ABC1 ABC2 C1 E1 AC1 ABC2 C1 E1 AC1 ABC3 ABC3 ABC3 C4 AC1 ABC62	
A4580	4	T2 W11(2) W18	ABC <u>1</u> ABC <u>1</u>	

Probably Phase 4Aii

BAA

17 T

AB3

	,	W1 W16 W18 W21 W29	AB1 BCE1 BCEF2 BE2 ABC4 BFE1 ABC3
AA138	3	U	ABC <u>3</u>
AA319	23	T1(1) T2 T2(2) V1(1) V4 W1 W18 W29	AB1 ABC3 C1 A1 ABC2 ABC2 A1 B2 ABC7 A1 ABC2
Phase '	AAii?		
AA577	4	W18	ACZ ABCZ
Phase 4	Aii/4Bi	·	
W48.2	10	W18 W18/W20(2) W29 X2a	ABC <u>3</u> C2 <u>1</u> AC <u>1</u> ABC <u>4</u> F <u>1</u>
Y10	51	T1 (1) T1 (2) T1 (4) T1/2 T2 V3 N7 (2) W14 W16 W17 W18 W20 (1) /W29 W20 (2) W21 X28 X25 Z3 Z7 NU	AB2 AB1 AB03 AB01 AB01 AB01 AB02 AB02 AB02 AB02 AB02 AB02 AB02 AB02
Y14	220	T1/2 F2 T2(2) PT2(2) V1(1) V3	81 413 01 080 <u>6</u> 01 02 0805 A81 AC1 ABC3

		W7 (3) W15 W16 W20 (2) W29 W47 Z7 MU	ABC3 ABC1 B3 C145 ABC36 ABC1 ABC2 ABC1 U2 U1	235
Y32	108	T1(3) T2 W7(3) W8 W13	AB1 C1 ABC <u>3</u> AC1 ABC <u>20</u> A1 B3 C3 AB1 AC2 ABC36 C1 AC3 ABC2	149 219, 220
		W18 W21 ?77 U	ABC25 FC3 U1 U1	248
AAB	ម	T2 W1 W18 W21	ABC <u>1</u> AB <u>1</u> ABC <u>2</u> F3 <u>4</u>	
Phase 41	Bi_			
AAS	75	T1/2 T2 T2(2) V1(1) V7(1) W1 W16 W18 W29	A2 AUC2 C1 ABC7 C2 ABC2 ABC2 ACB7 ABC3 ACB7 ABC1 U1 AB1 ACB1 ABC12 C36 ES2 C3C71 CG1 ABC5 ABC66	160 251
		X2a	BFZ U1	
Probably Phase 481				
AA211	26	T1 T7 W11(7) W18 W21 W50 X1(1)	ABC3 A1 B1 ABC11 ABC1 ABC2 U1 C1 ABC2 F23	

Phase 3//4Bii

Z56	4	T1(1) T1 T1/2 W1	AB <u>1</u> AB <u>1</u> A <u>1</u> AB <u>1</u>	
AA323.	1 2	W1	AB2	
AA552	1	T1/2	ABC <u>1</u>	
Probab	ly Phase	3 Toss	ibly Phase 4Ai//Bii	
W97	t	SIC(I)	AB <u>1</u>	
Phase	4Ai//Bii	<u>.</u>		
W4	3	72	ABCZ	
YB1	1	W49	AB <u>1</u>	
AA215	3	S1B(3) T1 V7(2)	AB <u>1</u> AB <u>1</u> ABC <u>1</u>	
AA394	3	†1/2 †2	ABC <u>1</u>	
AA511	5	T1 T1/2 V1 (2)	AB <u>1</u> ABCZ ABC <u>I</u>	
AA519	33	RU T1/2 T2 V7(1) V7(2) W18 W47	91 ABC2 A1 ABCB ABC2 ABC4 C14 ABC1	
Phase 4	Dii			
V1	66 8	\$3/T1 T1(1) T1(2) T1(3) T1(4) T1	A1 ABS UCI A2 AB9 A1 D1 ABS A4 AB4 B2 A10 B1 AB6S ABC2 AZ B7 C1 ABC2 ABC2 ABC AC4 ABC2OO	74, 77 91, 92 84, 87 91 90, 100 103 127, 139

		T2(2) T11 V1(1) V3 V7(1) V7(2) W1 W1/X1(1) W1/X1(1)/Y W2(2) W2(3) W3(1)	C15 ABC1 AC1 ABC3 A1 ABZ ABC3 AC1 ABC3 ABC2 A3 AB27 C1 AB2 ABC1 A1 U1 ABEB1 U2 AB2 ABC1	166 179 187, 188 192, 196 203 204
		W3(2) W4 W7(1) W7(2) W7(3) W7(4) W7	81 ABD1 ABC1 C1 ABC4 ABC1 ABC2 7C1 C1 ABC1	209
		W14 W15	C <u>7</u> ABC <u>1</u> ABC <u>2</u>	222
		W18 ?W18 W20(2) W21 W29 W32	829 ABC22 ABC1 ABC1 U1 ABC1 AB1	236, 237
		W47 W49 W56 X1(1) X1(2) Z7 7Z13 Z17	AB1 ABC1 ABC3 ABC4 A1 C21 ABC7 C1 E71 E21 U1	255
V3	16	T1/2 T2 W1 W7 W14 W18 Z50	A1 ABC2 ABC7 AB1 ABC1 C2 ABC1 U1	102
WS	2	T2(2) W1	C <u>1</u> A <u>I</u>	97
W10.2	108	T2 T2(2) V1(1) V1(2) V3 V7(2)	A3 01 A07 A0021 015 A802 012 A81 A8013	122, 179

		W7(1) ?W7(1) W7(4) W17 W18 25 27 213 215(3) 217 223 250	ABC1 ABC7 ABC1 B1 E72 F21 AC1 ABC1 U5 F21 U1 F21 U1 U1 U1	230
Y2	3	T1/2 Z50	ABC <u>1</u> U <u>2</u>	
Y7	9	T1 T2 W1 W14 Z50	A <u>1</u> ABC <u>4</u> A <u>1</u> C <u>1</u> U <u>1</u>	128 194
YØ	109	T2 T2(2) V1(1) V1(2) V7(2) W14 W18 ?W18 Y12 Z7 Z15(3) Z17 Z23 Z50 ZU	ABC2 C3 ABC2 E91 ABC1 ABC1 C1 ABC4 B1 C1 C2 C3 20 U1 B5 M40 U3	
Y17.2	3	T1 (1/2) T1 X1 (1)	∩ <u>1</u> Ω <u>1</u> Ω <u>1</u>	258
Z 1	13	T1 (1) T1 (3) T1/2 T2	81 982 81 982 81 882	
212	29	T1(1) T1 T1/2 T2 W14 W18 W56 X2a X2b	AB <u>\$</u> AB\$ ABC\$ C1_ABC\$ ABC\$ ABC\$ U1 B\$ ABC\$	

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		Z7 Z17 Z 2 3	U <u>2</u> U <u>1</u> F <u>1</u>
729	2	T1 Z19/Z23	A <u>1</u> UI

Phase Unstratified

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U/S	3773	RS RU	U <u>2</u> U4	
		R/53/T1	น์โ	
		SIA	ABI	
		\$18(1)	A1 AP2	
		S1B(2)	AB3 [™]	
		S1B(3)	AB <u>4</u>	
		51B(4)	AB <u>T</u>	
		SIBU	AB <u>1</u>	
		52 57	AB2	
		?52	82C22	
		93 ?\$3	A <u>2 AB1</u> AB1	
		93/Ti	ABZ	
		T1(1)	A32 B9 D1 AB62	80, 88, 90
			ABCEBÍ	77
		T1 (1/3)	A4 82 AB1	
		T1(2)	AĪ BĪ AB <u>Ā</u> ABC <u>J</u>	
		T1(3)	B <u>I</u> A <u>B7</u>	
		T1 (4)	B <u>\$</u> E9 <u>1</u> AB <u>6</u>	76
		Ti	A24 B9 D2 AB166	86, 98
		<b>*</b> 4.48	AE82 ABC4	
		Ť1/2	A47 B22 C1 D11	106
			D <u>2 AB18</u> AC <u>13</u> ABC222	105
		<b>†2</b>	A176 918 CB4 D5	112, 114,
115,		, ~	<u></u>	2.24 2114
<b>,</b>			AB18 AC178 AEB1	117, 119,
120,			<del></del> -	,
			APC <u>862</u>	121, 124,
125,				
				130-132,
134,				4.8.8. 4.8.8. 4.8.8.
		T7 (2)	man abb aboom	140, 142 145
		T2(2) 7T2	0 <u>02</u> ADB ABC2 <b>9</b> 2 <b>A</b> 1 ABC1 U1	
		TA	AZ AB6 ABCZZ	
		· · · ·	ABEO3	163
		711	ABC1	
		T117V3	<u> 02</u>	
		V1(1)	A <u>@</u> D <u>5</u> AD <u>1</u>	169, 171
			ABC <u>26</u>	
		V1 (2)	C4 AC3 ABC14	

V2	BC1 ABC2	176
V3	A <u>4</u> B <u>1</u> C <u>2</u> AB <u>5</u>	182
	ABCA	
V <b>4</b>	A <u>i Bi Cz Abi</u>	
	AC <u>1 ABCZ</u>	
<b>V</b>	AZ ABI ABCZ	
V6	AI DI ACI ABC4	185
<b>V7(1</b> )	AĪ CĒ ABĪ ACI	
2V7(1)	ABC <u>18</u>	
V7(2)	Al Al CZ ACS ABC12	
V7(2)/W1B	ARCZ	
AB	ABCI	
V9	C1 ĀBC1	
V10	AÐC1	
V11(1)	AC <u>1</u> ABC <u>1</u>	
Wi	A <u>26</u> €3 <u>1</u> B <u>1</u> D <u>1</u>	193, 198,
	4D45 404 4500	
LI CAPA	AB45 AC1 ABC7	202
W1(2) W1/X1(1)	AB1 ABC1	
W1/X1(1)/Y		205, 207
W3 (2)	APZ ABC3	200, 207
?W3 (2)	API	
W7 (1)	C3 AC1 ARC1	
W7 (2)	C1 ABC3	
W7 (4)	BĪ C5 ĀB1 ABC <u>10</u>	214
W7	CI	
MB	CA BCE VBCE	
W11(1)	CG BCZ ABCS	215
W11(3) W11(7)	B1 04 ADCO	215
W12	C <u>4</u> BC <u>4</u> ABC <u>B</u> C <u>8</u> F <u>2</u>	218
W13	02 ADC1	
	AÎ C <u>41</u> AC2 AE91	
	ABC49	
W15	82 C4 ABC12	
W16	A <u>I C<u>I4</u> AB<u>2</u> BC<u>1</u></u>	228
	ABC <u>T US</u>	
W17	C1 U1 A23 A13 B26 C31	
W18	457 417 850 C21	240
	C25 D1 E93 AB5 ABC347	
?W18	ABCS	
W20(1)	A7 02 ABS ABC11	
*****	u <u>ž</u>	
W20 (2)	A4 C4 AC2 ABCS1	
W2 1	Fīazīr <u>z</u> Cr <u>z</u> ABC <u>l</u>	
	BCF <u>1</u> ABCF <u>1</u> U <u>27</u>	
W22	AE85 ABC3	
W29	A1 P4 C9 E91 AC3	249, 250
w##	AE1 ABCZO	
W32 W34	A1 AB1 ABC2 A1 AB3	
W47	ABC1	
W49	C2 ABC1	
·- · ·		

201,

ผ	50	ABC <u>1</u> U <u>1</u>	
x	1(1)	A4 B21 C1 B2C21	257, 260,
		ABC <u>15</u> U <u>2</u>	
¥	1(2)	C1 AC1 ABC3	
	X1(2)	BI ABCI	
	X1	C4 <u>1</u>	
	2 <b>a</b>	B1 F34 ABC1	
	2 <b>5</b>	CF3 ABCF2	
Ŷ:		C2F51	267
Ý		u <u>i</u>	268
Ý		F53	
	78	CF51	
Ýα		F54	
	i (2)	M2 -	
Z		MĪO	
Z			
Z 3		M <u>3</u> E2 <u>1</u>	269
Z		M19	•
Z7		M9	
29	7	MĪO	
21	11	M <u>26</u>	
	13	84 C1 E25 M10	
Zi	15 (2)	M5	
Zi	( <b>5</b> (3)	EÑ <u>1</u> M <u>4</u>	
Z 1	15	M34 ี	
Z 1	(7(3)	M47	
Z 1	7	<u> </u>	
	9	MII	
Z <b>1</b>		M4	
Z 2		ΜĪ	
ZZ		M <u>₹</u>	
Z 2	25	GM7	
Zā		M <u>17</u>	
ZU	l	C <u>24</u> E21 M <u>74</u>	
IJ		ue :	

#### THE COINS AND COUNTERS by M M Archibald (Nul, 3-13) and D M Metcalf (Nu2)

No 1

Roman

Tetricus I. 270-273

'Antoninianus'

Obva IMP C TETRICVS PF AVB

Diadomed bust to right

Rey: (SPES P) VBL (ICA)

Spes walking to left holding flower in right

hand and her skirt with left

Wt: 2.08g Ref: RIC 136

Probably deposited shortly after issue

260, Phase 1, SFNu7

Nu2

Sceatta

Wt: 1.20g

This is the second sceatta to be found in the Northampton excavations and is of the same general type as the first, namely Rigold Series 6 (* BMC)

type 3a).

The localization of this type is not certain but it belongs apparently to Sussex, and it is very curious that two specimens should occur separately in Northampton - and that both should be irregular in style. The new find, unlike the warlier one, is of strongly debased metal and crude style. Its yellow colour suggests the presence of zinc in its alloy. Its weight (uncleaned, with some clay incrustation) is 1.20g; and it is in fresh, unworn condition to judge by the edges of the flam. Its date is presumably late in the sequence of secondary sceattas. On the basis of current ideas about the chronology of the series, one would say close to 750. It is impossible to say where it was minted, but there is no reason or encouragement to imagine that it was carried to Northampton from Sussex. On the obverse, the letters T and N have been added in the field in front of the face. These letters do not belong to the design of Series G. No parallel can be adduced, and no explanation offered for them. The style of the head, however, is by no means as debased as on the other copper specimens of the type. It is still of neat workmanship, and the ear in particular is a small lunate shape, not the grownly distorted triangle seen on other late coins. On the reverse, one of the Xs has been replaced by a sign which seems to be meant as a letter T. although it is so lop-sided as to be more like a Greek gamma. This may be a deliberate reference, but we have no way of knowing what T might stand for. If we allow ourselves to speculate on the possible

connexion between Sussex and Northampton, the only

common factor, which might conceivably account for the imitation of Series G so far away from its region of origin, would seem to be iron working. Could skilled workers have migrated from the Weald? This is highly speculative, but ought perhaps to be mentioned in case there are other clues in the archaeological record.

AA227, Phase 2, SFNu9

Nu3

Henry I, 1100-1135 Cut farthing, BMC type XV, c. 1134-5 Uncertain mint and moneyer 0.09g (chipped) All that is visible of the reverse legend is the initial cross with an A as the last letter of the mint signature. The previous letter is partially visible and what remains appears to be the right-hand limb of an A or possibly, but less likely, an h. The coin having been found in Northampton, one might suggest that it is a coin of the local mint but certainly Canterbury and other mints with A in their name remain a possibility. Type XV remained in circulation until the end of type I of Stephen in the early 1140s, so this coin was lost c. 1145 at the latest. AA579, Phase 4Aii, SFNui3

Nu4

Penny, Fox class IXa (?without star on breast), c. 1300
Canterbury mint
Wt: 1.06g (chipped)
This Coin was virtually unworn when deposited so is likely to have been lost shorty after issue and certainy before 1350.
AA562, Phase 4Ai, SFNu12

Nu5

English jetton, period of Edward II, 1307-27 Obv: Alternate saltires and resettes in place of legend Two crowns one above the other within inner circle

Rev: Pellets in place of legend
Cross moline with a pellet in each angle
Usual hole in centre
Wt: 1.14g (corroded)

Diam: 20mm

Ref: Berry 1974, type Edward II 13A, pl.5, 2 Jettons of this type had probably mostly disappeared by c. 1350, but deposition is more likely during the period of their issue in the first quarter of the 13th century. (AAI) = +.

Nu6

French jetton, mid-14th century

Obv: +AVE (M)ARIA GR(A)C(I)A PLEN Double cross

stops

Moor's head to right

Revi +A- / VE /M / AR

Lozenge flor-de-lises with flour-de-lis in each angle

Nt: 0.76 (corroded into holes)

Diami 20mm

Ref Barnard 1916, pl.IV, 12

Y+, SFNu3

Nu 7 Copy of official French jetton, mid 15th century

Nonsense legend: PLE#ARDVRARAMOVREVIIOV Obve

Shield of France modern with two pellets above

and at each side

Cross fleur-de-lisee with A in each angle, all Revi

within a quatrefoil; A in each outer angle.

Wt: 5.59g

Diam: 19mm

Ref: This variety does not feature in Barnard 1916,

but the type is basically as pl.VI, 44

Y+. SFNu4

NuB Small fragments of corroded bronze; ?French-type

jetton, mid-15th century.

All that is visible is - - which looks like the marks sometimes found at the sides of the shield on French jettons. Otherwise the place is very corroded and there is no further trace of the design.

not weighed because so fragile

(AA303) = 4, SFNu14

Nu9 Charles I, 1625-49

Richmond farthing, 1625-34, Peck type Ic

The initial mark is illegible on both sides

0.34g

Lost before c. 1660 but probably earlier

AASO4, Phase 4Aii, SFNulO

Nuio Contemporary forgery of haifpenny of George III, ist

issue 'Medley' halfpenny, date illegible

4.44g (corroded)

The light wright of this piece, even allowing for the corrosion, mark it out as a counterfeit although it is too corroded for this to be confirmed by an unofficial style. These coins were very common in circulation in the late 18th century.

(AA505) = +, SFNull

Nu I I Victoria, 1837-1901

Farthing, 1884

2.29g (chipped and corroded)

This cain was unworn when lost and so was probably

deposited shortly after it was issued.

W+, SFNu5

Victoria, 1837-1901 Nu12

Halfpenny, 1888

Wt: 5.14g (correded)
This coin was very worn when lost and so was probably deposited well into the 20th century. W10, Phase 4, SFNu6

Nu13

Defaced bronze disc, ?halfpenny of Victoria.
1837-1901, bronze coinage, 1860-1901.
Wis 4.85g (chipped and corroded)
The size and weight suggests that this is a defaced halfpenny. The corrosion and the irregular scores across the surface have left no trace of the original designs.
Y+, SFNu1

## OBJECTS OF COPPER ALLOY AND BILVER by Alison R Goodall

Figs 33, (M) 16-17

Cul

Composite annular brooch of gilded debased silver. There is a plain D-sectioned base and an upper slement consisting of filigree scrolls and four cup-like settings for stones:  $t^{1/2}$  inner and outer edges of the brooch have filigree borders. The brooch was originally held together by four rivets positioned under the gem settings. There is a slot in which the pin would have rotated. The brooch should probably be dated to the 13th or 14th century. (AA300) = +,  $\pm$ 

Cu2

Penannular ?mar-ring with tapering ends. W5, Phase 4Ai, SFCu42.

Cu3-7

Buckle frames. Cu3 is part of a D-shaped buckle with decoration of incised diagonal lines. Cu4 is a very simple buckle and plate: the frame has been made from a thick strip and the plate has been cut from sheet metal and has the upper edges turned down so as to enclose the leather strap. Cu5 is a double-looped buckle, approximately rectangular in form with the corners cut off. The sides are decorated with a traced wavy line and zig-zag infill. The D-shaped buckle frame, Cub, also has traced decoration. Cu7 is part of a double-looped buckle, of post-medieval date, which would have had a separate pin bar passing through holes in the top and bottom of the frame. Cu3: AA204, Phase 4Ai, SFCu75; Cu4: AA536, Phase 4A, SFCu104; Cu5: AA73, Phase 4Aii, SFCu58; Cu6: (V19) = 1, Phase 4Bii, SFCu53; Cu7: Y+, SFCu17.

Cu8-9

Brooch or buckle pins. Cu8 has a slight soulding below the broken hook and probably came from a plain annular brooch or buckle; Cu9, which has a perforated eye at the hinge end and a collar below it, certainly came from a brooch. Cu8: AA562, Phase 4Ai, SFCu93; Cu9: (AA501) = +, SFCu86.

Culo

Belt loop with internal lugs and a boss on its longest side. (W9) = V1, Phase 48ii, SFCu41.

Cu11-14

Strap ends and plates. Cull is a Saxon strap end and is split and riveted at its upper end to take the strap. It is flat backed and has mouldings on the front. The terminal is crudely zoomorphic. This strap end is narrower than the more common type of split-end strap end, but a similar 9th to early 10th century date is suggested for an example in the Ashmolean Museum, Oxford (Hinton 1974, 22-3, no 16). A more slender example, lacking the zoomorphic

terminal, was associated with middle Sexon pottery and finds at Maxey, Northants (Addysan 1964, 62, fig 17,1). Cul2 is a single plate with three ?iron rivets: it has a blackened surface and its outer face is decorated with traced zig-zag lines. Cul3 is a strap and of thin sheet metal decorated on the outer face with repolate cabled borders surrounding a panel of traced decoration: the type may be dated to the late medieval period. Part of a leather strap remains between the two helves of the plate. Cul4 is part of the spacer, probably originally with a forked extension, from a strap end: it has a terminal knop which would have projected below the plates. Cull: (Y74) = 17, Phase 3/48, SFCu26; Cul2: YB, Phase 48ii, SFCu21; Cu13: AA73, Phase 4Aii, SFCu57; Cu14: (AA503) = +, SFCu84.

- Cui5-16 Fragments of strips with perforations, possibly from strap end plates. Cui5: Y+, SFCui4; Cui6: (AA501) = +, SFCu85.
- Cui7 Hooked fastener with pierced ornamental plate and an anguler hock at the head. Fragments of textile adhere to it. W+. SFCu37.
- Cui8-22 Buttons. Cui8 and Cui7 are of the same type with four stitching holes and wording round the edge: Cui8 is inscribed '[EX]CELSIOR' and Cui7 '[...]PLU8' C_20 may be a small composite button consisting of a disc with its edge: turned under and two stitch holes in the centre: the slightly smaller U-sectioned ring may be part of the same object. Cu21 is inscribed '6. Simpson.*.York.*.', indicating either the manufacturer or the clothing company using the button. Cu22 is undecorated. Cu18: Zi, Phase 4Bii, SFCu48; Cu19: Y+, SFCu6; Cu20: Y+, SFCu16; Cu21: (AA303) = +, SFCu114; Cu22: AA306 Phase 4Aii, SFCu73.
- Lace ends of rolled sheet metal. Some, like Cu23, have a securing rivet. All except Cu42 come from medieval contexts; Cu42 appears to come from Saxon levels. Cu23: AA536, Phase 4A, SFCu108. Cu24-25: Y+, SFCu5, 11; Cu26: Y32, Phase 4Aii/Bi, SFCu22; Cu27: (Y98) = 62, Phase 4Ai, SFCu28; Cu28-32: AA95, Phase 4Aii, SFCu59(x2), 60, 61, 63; Cu33: AA97, Phase 4Ai, SFCu64; Cu34: AA98, Phase 4Aii, SFCu67; Cu35: AA504, Phase 4Aii, SFCu32; Cu36-39: AA541, Phase 4Aii, SFCu88, 90(x2), 91; Cu40-41: AA568, Phase 4Aii, SFCu95, 102; Cu42 (?lace end) (AA137) = 136, Phase 3, SFCu76.
- Cu43

  Purse frame with two hoops swivelling on a short bar. The hoops and bar are perforated for suspension of the fabric pouches. There is a quatrafoil-shaped loop so that the purse could be suspended from a

belt. Purses of this type were in use in the 15th and 16th centuries. (AA505) = +, 8FCu87.

Cu44 Scabbard chape made from rolled sheet metal with the edges overlapping at the back. At the front, the upper edge has been cut to an ornamental shape.

AA568, Phase 4Aii, SFCu100.

Cu45 Part of the posmel of a sword of Petersen's type O (Patersen 1919, No 1); it would originally have had five lobes. The possel has Borre style decoration similar to that on a 10th century strap and from York (Viking Catalogue, 108 No YD39 and 121 pl). This type is rare in Britain and may have a Frankish origin. An example from near Norwich, which is very similar to the Northampton pommel, has been dated to the 9th century (Davidson 1962, 55, pl VII, 40). (Y59) = 55, Phase 3, SFCu31. (I am grateful to Dominic Tweddle of the York Archaeological Trust for helping with the identification of this object and for providing parallels for it and also to Dr Sue Margeson of the Castle Museum, Norwich, for providing information about the Norwich pommel).

Cu46-7 Binding strips. Cu46 is D-shaped in section; it has riveted ornamental terminals and is bent in the middle to form a loop possibly to support a handle or to secure a hasp. There is no evidence of gilding but the object is probably of a common 12th and 13th century type of binding, possibly from caskets of wood and bone or ivory (Goodall forthcoming). Cu47 is the perforated terminal of a simpler binding strip. Cu46: Y+, SFCu9; Cu47: Y+, SFCu15.

Cu49 Simple drop handle with an ornamental thickening in the centre. W+, SFCuli3.

Pendant bell with broken suspension loop. It is hexagonal in section and has small points projecting downwards from the angles. A similar bell was found at Goltho, Lincs (Goodall forthcoming, no 65). AA530, Phase 4Ai, SFCu92.

Cu50 Possible body fragment from a cast metal vessel. (AA587) * 123, Phase 3, SFCu112.

Cu51-55

Bosses and stude. Cu51 is a boss of sheet metal, domed in the centre and with a broad, flat flanges it was found in the lowest levels of the site but is of indeterminate age. Cu52 is a group of four dome-headed rivets, passing through leather and with their shanks hammered over small round washers at the back. Cu53 is a corroded disc-shaped mount, probably riveted. Cu54 is a stud with an ornamental head while Cu55 appears to have a gilded head. Cu51: (AA935) = 233, Phase 1, SFCu107; Cu52: AA568, Phase

4A11, BFCu99; Cu53: AA508, Phase prob 4, BFCu77; Cu54: Y+, SFCu4; Cu55: W+, SFCu39.

Cu56 Patch for sheat matal made from a folded piece of sheet. AASO4, Phase 4Aii, SFCu78.

Cu57 Needle with a triangular sectioned tip; the eye is set in a groove. (AA501) = +, EFCu83.

Cu58 Pin or tack cut from sheet metal in the shape of an alongated triangle. Y135, Phase 3, SFCu34.

Cu59 Spiral-headed pin or loose coil of fine wire. Y+, SFCu10.

Pins. Guéo has a pear-shaped head and comes from the earliest levels on the site although it is probably of Saxon date: it has white metal plating on the shank. Cu61-63 have heads of coiled wire that have not been distorted by stamping. The heads of Cu61 and Cu62 consist of a single, almost flat coil; that of Cu63 consists of three turns of fine wire. Cu64 has a flattened head and white metal plating. Cu60: Wi67, Phase 1, SFCu46; Cu61: AA568, Phase 4Aii, SFCu102; Cu62: AA568, Phase 4Aii, SFCu97; Cu63: AA541, Phase 4Aii, SFCu91; Cu64: (W202) = 159, Phase 1/2, SFCu45.

Cu65-88 There are a further 24 pins, mostly from late mediaval contexts. Where the heads are present, all are of coiled wire but only four of them have been stamped. Cu65-66: W+, SFCu38, 40: Cu67: W15, Phase 4, SFCu47: Cu68-71: Y+, SFCu1, 2, 3, 18: Cu72: Y32, Phase 4Aii/Bi, SFCu23: Cu73-77: AA95, Phase 4Aii, SFCu62(x2), 63(x2), 65: Cu78: AA306, Phase 4Aii, SFCu70: Cu79: (AA318) = 308: Phase 4Aii, SFCu74: Cu80-82: AA504, Phase 4Aii, SFCu74: A958, Phase 4Aii, SFCu94, 96, 98, 101, 103: Cu88: AA579, Fhase 4Aii, SFCu106.

Cu89 Piece of fine wire. Z12, Phase 4Bii, SFCu50.

Cu90 Small elongated cap. (V4) = Vi, Phase 49ii, SFCu5i.

Cu91 Cylinder or pipe, 26mm long. Y+, SFCu13.

Cu92 Approximately U-shaped plate, of thin sheet, with two perforations, one containing a rivet. AA579, Phase 4Aii, SFCu105.

Cu93 Rectangular plate with a large perforation. (Y61) = +, SFCu25.

Cu94-8 Pieces of strip. Cu 95, 96 and 98 are perforated and Cu96 contains a pin cut from sheet metal. Cu94: Y55, Phase 3, 9FCu27: Cu95: Y45, Phase 4Ai, 8FCu29: Cu96:

(W53) = 52, Phase 4Ai, SFCu44; Cu97: AA57, Phase 4A, SFCu55; Cu98: (AA302) = +, SFCu71.

Cu99-100 Fragments of sheet metal. Cu99: AA79.2, Phase 3, SFCu54: Cu100: AA25, Phase prob 3, SFCu56.

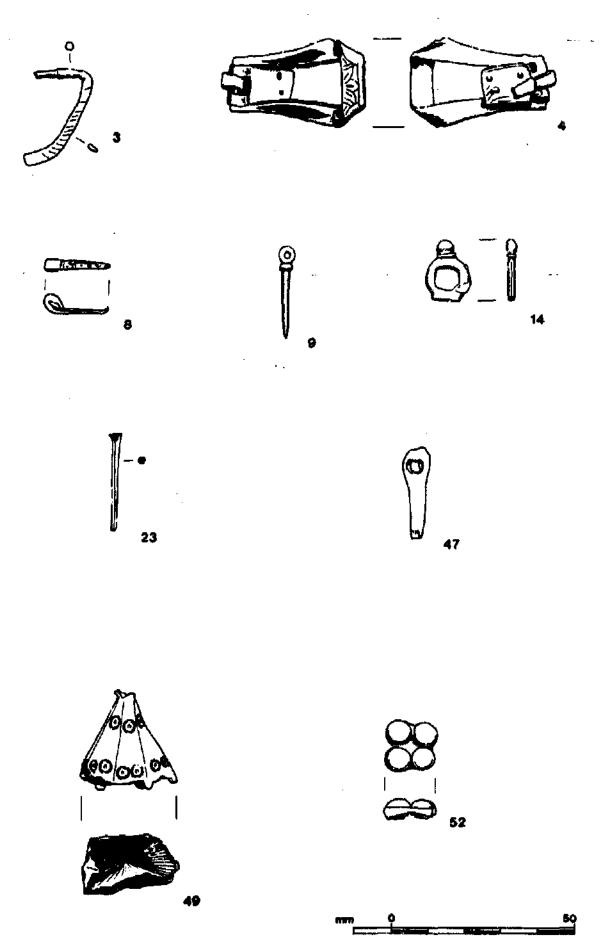
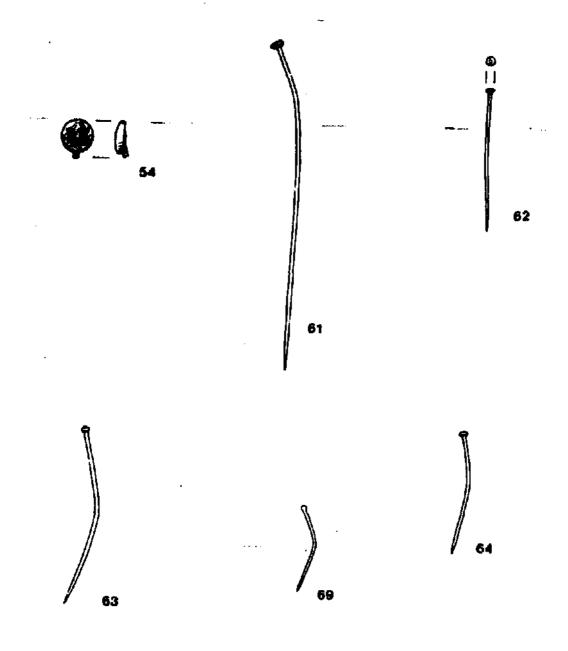


Fig. (Alle: The Copper Alley Moyects I







mm 0 50

Fig (H)17: The Cooper Alloy Objects II

## OBJECTS OF PEKTER AND LEAD by Alison R Goodall

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- 1		.3.3

Two pieces of thin pewter or tin sheet, Pb1 mossibly from the rim of a plate or dish. +, SFPb11. Perforated bun-shaped weight. (Y141) = 55, Phase 3, Pb2 SFPb9. Pb3 Droplet or possibly a simple weight. +, SFPb2. Piece of lead piping. +, SFPb1. Pb4 Fragments of window came. Pb5: (W40) = 12, Pt 3-6 Phase 3, SFPb5; Pb6: W48, Phase 4Aii/Bi, SFPb13. Lead Gaulking. Pb7: Y45, Phase 4Ai, SFPb4; Pb8: +, Pb7-8 SFPb5. Pb9 Perforated strip, 62 mm long. W52, Phase 4A, SFPb14. Fused lead. Pb10: Y135, Phase 3, SFPb10; Pb11: Y55, Pb10-14 Phase 3, SFPb6; Pb12: (Y122) = 58. Phase prob 3, SFPb7; Pb13: Y133, Phase 4Ai, SF058; Pb14: Y32,

Phase 4Aii/Bi, SFPh3.

### THE IRON OBJECTS by Ian ( Goodall

Fig 34

- Fe: Burred head and broken stem of punch or Chisk*.. (226) = 225, Phase 3, SFFe34.
- Fe2 Ame with broad butt and integral socket. Y9, Phase 48ii, BFFe2.
- Fe3-7 Knives with whittle tangs. Fe3: AASE, Phase 3, SFFe57; Fe4: (AA129) = 123.10, Phase 3, SFFe123; Fe5: (AA137) = 134, Phase 3, SFFe129; Fe6: AA97, Phase 4Ai, SFFe105; Fe7: Z55.3, Phase 4Aii, SFFe42.
- Fe8-12 Knives with scale tangs. Fe8 has wood scales, copper alloy rivers and the solder from lost shoulder plates, Fe7 bone scales, iron rivets and riveted shoulder plates. Fe10 wood scales and riveted shoulder plates. Fe11 is a handle with wood scales and copper alloy rivets and decorative pins, Fe12 has riveted shoulder plates. Fe8: AA95, Phase 4Aii, SFFe91 and SFFe92; Fe9: AA95, Phase 4Aii, SFFe84; Fe10: AA568, Phase 4Aii, SFFe155; Fe12: Y32, Phase 4Aii-Bi, SFFe5.
- Fel3-15 Knife blades. Fel4 is 37mm long, Fel5 is 43mm long. Fel3: (AA137) = 136, Phase 3, SFFel32; Fel4: AA345.1, Phase 4Ai, SFFel30; Fel5: AA568, Phase 4Aii, SFFel53.
- Fe16,17 Staples of similar form. Fe17 is 21mm wide, 16mm long but broken. Fe16: AA123.7, Phase 3, SFFe120: Fe17: AA99, Phase 4Ai, SFFe104.
- Fe18-20 Hinge pivots, Fe19 with slenched tip. Fe18: AA66.4, Phase 4Ai, SFFe73; Fe19: AA78, Phase 4Aii, SFFe78; Fe20: Y32, Phase 4Aii-Bi, SFFe6.
- Fe21,22 Strap hinges with nailed U-shaped syss.
  Fe21: (AA15) = 14, Phase 4Ai, SFFe52; Fe22: AA73, Phase 4Ai, SFFe56.
- Fe23-26 Strap fragments, all broken. Fe23 is 127 x 15mm, Fe25 is 57 x 10mm, Fe26 is 55 x 12mm. Fe23: (AA767), Phase 1, SFFe187; Fe24: (AA82) = 49, Phase 4Ai, SFFe88; Fe25: AA62, Phase 4Aii, SFFe66; Fe26: AA55, Phase 4Aii, SFFe58.
- Fa27,28 Fittings with pinned hinges, probably from chests of caskets on which they supported stapled rasps. Fa27: AA52, Phase 4A11, SFFe74; Fa28: AA54, Phase 4A, SFFe61.

Fe29,30 Strip fragments, both broken. Fe29 is 47 x 15mm, Fe30 is 51 x 7 mm. Fe29: 3A54, Phase 4A, SFFe60; Fe30: AA568, Phase 4Aii, SFFe157.

Fe31 Shaped mount. AA57, Phase 4A, BFFe59.

Fe32 Figure-eight hasp, nearly flat in side view, centre closed. 145mm long, 26mm wide. AA39, +, 8FFe76.

Fe33

Barrel padlock with fin and tapering tube.
Narrow longitudinal and transverse straps decorate and strengthen the case which has a keyhole in the end and retains a pair of spines each with a double leaf spring. None of the rest of the U-shaped padlock bolt survives. The padlock is in a late context; typologically it is of 11th, 12th or 13th-century date. 50es long, case 22em in diameter, total height 44em. (V13) = 1, Phase 48ii, SFFe38.

Fe34 Padlock bolt with double leaf spring and broken spine. Rest of bolt lost. (AA130) = 123.1, Phase 3, SFFe122.

Fe35 Padlock key with swollen stem and looped terminal, the stem with spirally inlaid non-ferrous wire. The key is typologically of 11th to 13th-century date. AA38, +, SFFe73.

Fe36 Bult from fixed luck. (AA137) = 136, Phase 3, SFFe136.

Fe37 Key with thistle-shaped bow and solid stem. AA92, Phase 4Aii, SFFe99.

Fm38-116 Timber nails of three types (Fm38, 70, 74). Fm38 has a flat rectangular head, sometimes with rounded corners (32 examples found), Fm70 has a flat round head (4 examples), Fm74 an elongated flat rectangular head (3 examples).

Nail 38 70 74

Phase	3	1	1	1
	3/4A	1	-	-
	3/4A1	3		***
	4Ai	13	3	2
	4Ai i	10		-
	4A1/11	-	_	-
	4A	2		-
	4Aii/4Bi	2		-
Total		32:	4	3

Fe38 type Phase 3: Fe38: AA9, SFFe182. Phase 3/4Air Fe40: (V43) = 27, 9FFe43; Fe41: (V43) = 27, 8FFe44; Fe42: AA340, 8FFe150.

Phase 4A1: Fe43: Y62, 8FFe8] Fe44: Y62, 8FFe9; Fe45: W5, 8FFe29; Fe46: AA10, 8FFe30; Fe47: AA10, 8FFe31; Fe48: AA94, 8FFe81; Fe49: AA79, 8FFe83; Fe50: AA47, 8FFe95; Fe51: AA83, 8FFe101; Fe52: AA117, 8FFe112; Fe53: AA309, 8FFe117; Fe54: (AA368) = 344, 8FFe1/0; Fe55: AA572, 8FFe160.

Phase 4A11: Fe56: Y31, SFFe7; Fe57: AA62, BFFe67; Fe58: AA62, SFFe68; Fe59: AA62, SFFe72; Fe60: AA75, SFFe69; Fe61: AA95, SFFe90; Fe62: AA504, SFFe146; Fe63: AA569, SFFe151; Fe64: AA579, SFFe169; Fe65: AA579, BFFe170.

Phase 4A: Febb: AA54, SFFe54; Feb7: AA54, SFFe63. Phase 4A: 1/B:: Fe68: Y10, SFFe3; Fe69: (Y15) = 14, SFFe4.

Fe70 type

Pliase 3: Fe70: W29, SFFe180.

Phase 3/4A: Fe39: AA565, SFFe174.

Phase 4Ai: Fe71: Y105, SFFe18; Fe69: +, SFFe27; Fe73: W5, BFFe28.

Fe74 type

Phase 3: Fe74: Y55, 9FFe13.

Phase 4A1: Fe75: Y105, SFF#16; Fe76: AA204, SFF#118.

Forty one shanks of indeterminate timber nails were found.

Phase	Examples
1	2
3	10
3-4A1	2
4A1	12
4011	6
401-11	2
48	1
481 i	5
+	1
Total	41

Phase 1: Fe77: AA637, SFFe144: Fe78: AA680, SFFe1. Phase 3: Fe79: W13, SFFe24; Fe80: W14, SFFe26; Fe81: AA25, SFFe62; Fe82: AA77, SFFe682; Fe83: AA70, SFFe13: Fe84: AA123.1, SFFe19; Fe85: (AA137) = 136, SFFe12@; Fe86: (AA131) = 123.1, SFFe131; Fe87: AA136. SFFe136; Fe88: (AA132) = 123.1, SFFe134. Phase 3-4A1: Fe89: (V43) = 27, SFFe45; Fe90: (VS6) = 27, SFFe47.

Phase 4Ai: F391: (YBO) = 42, BFFe12; Fe92: (YBO) = 62, BFFe13; Fe93: AA99, BFFe96; Fe94: AA97, BFFe97; Fe98: AA117, BFFe116; Fe96: AA203, BFFe121; Fe97: AA203, BFFe125; Fe98: (AA352) = 309, BFFe133; Fe99: (AA347.1) = 344, BFFe134; Fe100: AA203, BFFe135;

Fe101: AA338, SFFe161; Fe102: V21, SFFe41.
Phase 4A11: Fe103: AA62, SFFe65; Fe104: AA62, SFFe71; Fe105: AA95, SFFe86; Fe106: AA98, SFFe100; Fe107: AA541, SFFe147; Fe108: AA579, SFFe172.
Phase 4A: Fe109: AA520; SFFe159; Fe110: AA57, SFFe55.

Phase 4Bi1: Fe111: Z12, SFFe31; Fe112: Z12, SFFe32; Fe113: (V4) = 1, SFFe36: Fe114: (V22) = 1, SFFe39; Fe115: (V33) = 1, SFFe46. Unstratified: Fe116: AA133, SFFe115.

Fe117 Steel. (AA113) = +, SFFe14.

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Fe118,119 Rings. Fe119 is 35mm in diameter. Fe118: AAB9, Phase 4Ai, SFFe103; Fe119: AA62, Phase 4Ai1, SFFe69.

Fe120-125 Horseshoes. Fe120-122 are the most complete, and all have countersunk nailholes. Fe123-125 are arm fragments, their nailholes not easily discernible. Fe120: AA77, Phase 3, SFFe75; Fe121: AA97, Phase 4A1, SFFe105; Fe122: AA79, Phase 4A1, SFFe94; Fe123: Y62, Phase 4A1, SFFe10; Fe124: AA576, Phase 4A1, SFFe166.

Fe126-128 Horseshoe na: 1s with fiddle key heads. Fe126: AA97, Phase 4Ai, SSFe104; Fe127: (V9) = 1, Phase 4Bii, SFFe37; Fe128: AA320, Phase 4A, SFFe173.

Fe129 S-shaped object, 97mm long. W14, Phase 3, SFFe25.

Fm130 Object with finttened terminal. PA62, Phase 4Aii, SFFe64.

### THE SAXUN CRUCIBLES AND RELATED INDUSTRIAL SAMPLES by Justine Bayley

Fig 35

The shords were all examined and the deposits on them analysed quantatively by energy-dispersive x-ray fluorescence (XRF). The analytical results and the dimensions of the shords are given in Table (M)4.

The analyses suggest a number of distinct uses for the vessels represented by the sherds. Two (AM 840273, 840276) had no traces of non-ferrous metal detectable so had probably not been used as crucibles, although in form they are typical of other examples. A burnt sherd of similar form (possibly from a small bowl) was found to contain traces of hematite (iron one) which could have been used as a red pigment or as a fine abrasive for polishing the metal objects being made. AM 840288 is a frequent of vitrified hearth lining.

The metals detected on the rest of the sherds are shown in the table in order of XRF signal strength. This is not the same order as the relative abundance of the metals as some elements fluoresce less strongly than others and so tend to be under-represented; this is particularly true of silver. The almost universal presence of zinc should not be given too much weight as this is due mainly to its chemical nature. While probably present in many of the metals being melted, it would not have been a major constituent of most of them.

One shard was from a vessel used to melt lead (AML 840277), three were from vessels used to melt copper or one of its alloys (AML 840274, 840279, 840284) and five were from vessels used to melt impure silver (AML 840286). One final shard from the base of a red painted cooking pot in pottery fabric ?Wi/Xi(i)/Y ((M)2/44-7) had been re-used as a heating tray. Similar examples were noted at Chalk Land (Bayley 1981, (M)116-130). The vitreous deposit in it contained much copper and lead as well as a minor amount of silver suggesting its use was connected with precious metal working, possibly metal refining.

Table (M)4: Analyses of the Snucibles

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Table (M AML no. #40273 #40274 #40275 #40276 #40277 #40277 #40280 #40282 #40284 #40285 #40285	14.	Analyses of	. the Court	h i na					
AML no.		MIBIYOBS OF	Context	Phase	111. no.	Sherd type	Thickness (se)	Elemente detected by XRF	Commente
<b>\$</b> 40273		596	AA206	3	7	Rim	5	<u>.</u>	Unused.
840274	PŁ	593	¥135	3	1	Boso & ria	5	Cu Pb ?In	Copper or copper
840275	D4	34	Y 35	3		Bady	4	Cu Ac	alloy. Impur <b>e</b> silver.
840276		36	Y135	3	6	Tie	4	- wa my	Unused.
840277		578	AA25	Prob 3	ě	Rim	5	P⊁	Lead.
840276		599	AA204	4A i	•	Body	6	in Ag Cn	Impure silver.
840279		341 + 388	AA206	3	2	Rim	4	Cu Zn	Copper or copper alloy.
840280	Pt	596	¥135	3		Body	5	-	Hematite recorded Burnt mottery
									sherd.
840262	Pt	<b>3</b> 7	¥135	3		Bady	5-6	Zn Cu Pb Ag	Impure silver.
840284	Pt	595	AA+	U/S	3	Ria	3-4	Pb In Cu	Copper or copper alloy.
040285		600	Y135	3	5	Rie	4-5	Cu Ag Pb In	lapure Bilver.
840286		401	¥135	3	4	Rim	4-5	Cu Pb Ag In	impure silver.
		594	¥£35	3		Body	6	Pb Cu Zn Ag	Pot, reused as a heating tray.
\$4\\(\frac{2}{2}\)	<b>S</b> )	139	Y135	3		Ind ,	•	-	Vitrified hearth lining.
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### THE TILE AND BRICK

Fig (M) 18

### (i) Introduction

A total of 561 pieces of tile and brick was found during excavation of which 429 pieces were recovered from stratified contexts. From each context the fragments were sorted into fabric groups with the aid of a X20 binocular microscope, and further quantified according to form. Joining fragments were treated as one.

I would like to extend my thanks to V Denham for her general advice; to I Betts for useful suggestions; and to D Mynard for his comments on the decorated floor tile.

### (11) Roman Tile and Brick

in comparison to only 34 wherds of pottery, 88 pieces of tile and brick of Romano-British manufacture were recovered. occurring mainly in association with the Baxon stone hall. From Phase 2, 26 of 28 fragmonts were located within the foundations and walls and from Phase 3, 18 of 27 fragments were from robber trenches of the hall. Table (M)5 lists the incidence of form by phase. Roman finds from the St Peter's Street excavations included 111 fragments of brick and tile (Williams and Williams 1979, 322), but only 16 shords of pottery. No Roman levels were excevated on either site and it is likely that tile and brick was deliberately sought and introduced as a conventent building material. Reused Roman tile is also a notable element in the Sexon wells of Brixworth Church (Evarson and Parsons 1979) and the same practice has been recorded at many other mites of Saxon or later date (eg Rahtz 1979, 166, 247-7; Rodwell 1977, 90-97; RHCM 1952, 8). It is not known whather there were any Romano-British buildings and structures close to St Peter's Gardens (Williams 1979, 139), but Duston (c. 2km to the W) may be cited as one possible local source.

The assemblage was divided (Table (H)6) into seven previously defined fabric groups (ki)liams and Williams 1979, 322). No new fabric types were identified. With regard to form, 'tiles' and 'bricks' are not differentiated and it should be recognised that smaller fragments may represent flat tiles or bricks or could derive from other forms with flat components, such as tequize or tubuli. Tequize were conclusively identified only when diagnostic flanges were present. No fragments of imbrices were apparent; and three small pieces with cross hatched combing may derive from tubuli. The general relationship between form and fabric is in keeping with the evidence from St Peter's Street (Williams and Williams 1979; 322). Conclusive Roman forms have been identified in all tile and brick fabrics present in Phases 1 to 3, with the exception of Ri and R6, although it is likely that R6 represents a coarser sub-type of R4. R4 (a the same as Hoodfield's fabric 35b (pers come P Aird) and has been recorded

at many Romano-British sites in Northamptonshire, Buckinghamshire, Bedfordshire and Hertfordshire (Woodfield 1983, 78). Two pieces in Ri are proably fragments of tubuli and several bear traces of opus signinum. Consequently, there is no reason to suppose that any of the brick or tile is of Baxon manufacture.

Table (H)5: Occurrence of Different Roman Forms by Phase

Phase/ Form	Brick/Flat Tile	Tegulae	Ind.	Total
1	1		2	3
1/2	Ž		<u>ī</u>	3
2	20	7	Ī	29
2/3			ž	1
3	19	1	7	27
3/4	5	1	2	8
4	7013	1	1	9(1)
Unstratified	7023	2	_	9(2)
Total	61[3]	12	15	90

#### [] - possible tubuli

Table (M)6: Occurrence of Different Roman Forms by Fabric

Fabric/ Form	Brick/Flat Tile	Tegulae	Ind.	Total
R1	7623		4	11[2]
R2	9013		4	12013
R3			1	1
R4	14			14
R5	6	2	2	10
86	12			11
R7	15	10		25
Indeterminate			4	4
Total	61[3]	12	15	88

### [] = possible tubuli

### (111) The Medieval and Post-Medieval Tiles and Bricks

### Method

Phase 4A1 marks the appearance of medieval building ceramics, and all subsequent phases produced tile and brick. A total of 473 pieces was recovered (Tables (M)8-10).

Following sorting into fabric groups, tallies were made for each fabric in each context against nine form headings: nib, peg, ridge, pantile, curved indeterminate, flat roof indeterminate, roof/floor tile, floor tile and brick.

Peg and nib tiles were conclusively identified only when the nominative attributes of peg holes and nib were present. Ridge tiles were defined on criteria of form (distinct curve, thickening at the edges, presence of crest). Pantiles were isolated upon the basis of their characteristic profile. Fragments assigned to form 'curved indeterminate' are probably mainly from ridge tiles. Floor tiles were identified by fabric difference, slanting edges and dimension. Brick was immediately recognisable by fabric difference.

### Key to Fabricas Table (M)7

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 Continued excavation in Northampton has substantially furthered understanding of the tile and brick component of the town's ceramic history and the references in the third column cite previously published fabric definitions and discussion. The bracketed prefix (M) to a page number denotes microfiche.

The table is restricted to fabrics and forms found at St Peter's Gardens and it should be noted that four fabrics M7, MD, MB(1) and MB(2) recovered from other sites were not in evidence. The Riding report includes a gazetteer of all tile and brick fabrics found in Northampton, now supplemented by newly defined fabrics M4(3) and M5(4).

Report	code	M1001	Greyfriars (Eames 1978)	
		M1151	St Peter's Street	
			(Williams and Williams	1979)
		M3511	Derngate	
			(Denhaci 1984a)	
		M4031	The Riding	
			(Denham 1984b)	
		M115X+	This report	

#### Table (M)7: Key to fabrics

Code	Type	References	Origin	Date
M1 (1)	Roof tile	M115:322 H351:(M)49 H403:(M)71	?Potterspury, Bucks	fiedi eval
M1 (2)	Roof tile	M351: (M) 49 M403: (K) 72	?Potterspury, Bucks	Medieval
M2	Roof and floor tile	M115:324 M351: (M) 49 M403: (R) 72	?Lyveden, NE Northents	Medieval

Roof tile	M1151324 M403: (M) 72	?Local	Medieval
Roof tile	M115:324 H351: (M) 49 M403: (M) 72	?Lyveden, NE Northants	Late medieval
Roof tile	M351 ± (M) 49 M403 ± (M) 73	?Lyveden, NE Northants	Late/post-
Roof tile		?Lyveden, NE Northants	Post-medieval
	M351 (M) 49 M403 (M) 73	?Local	Medi eval
Roof and floor tile	M351:324 M403: (M) 73	?Local	Nedieval
Roof and floor tile	M351 ± (M) 49 M403 ± (M) 73	?Local	Late/post- medieval
Floor tile	M100: 125 M115X: (M)	?Local ?Penn, Bucks	Medieval
Floor tile	M403± (M) 73	?NE Northants	Medieva)
Roof tile	M351: (M) 49 M403: (M) 74	?Local	Medieval
Brick	M351: (M) 50 M403: (M) 75		L9th/20thG
Brick	M4031 (M) 75	?Local	Late/post- medieval
	Roof tile  Roof tile  Roof and floor tile  Roof and floor tile  Roof and floor tile  Roof and floor tile  Floor tile  Floor tile  Brick	M403: (M) 72	M403: (M) 72   Roof tile   M115:324   NE Northants   NE Northant

^{* -} Newly identified fabric. Fabric definitions : (M)3/81

### Roof Tile

More than 90% of the post 1100 assemblage comprises roufing tile. Past analysis has demonstrated that rectangular tiles were standard in Northempton (Denham 1984c) and in the present study all edge pieces were invariably straight with c. 90°corners. Nearly all the tiles were highly fragmented and thickness provides the only dimension for comparison between fabrics, but the extreme disparity in the relative occurrence of fabric types precludes the meaningful use of rigid statistics. Empirically derived average ranges of thickness for flat tile are as follows:

M1(1) : 10-12mm M1(2) : 10-12mm M2 : 12-14mm M3 : 12-14mm M4(2) : 13-15mm M4(3) : 13-14mm M5(2) : 10-12mm

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Ridge tiles in these fabrics are typically at the upper limit of the range in thickness, or exceed it by up to 4mm.

The restriction of relatively thin tiles in M1 fabrics to the earlier medieval phases may reflect a later preference or indeed requirement for more substantial and long lasting roofing.

The dimensions of an almost complete double pegged tile (FIB (M)18, 1) of 13th/14th century date are: length >241mm (>9 1/2"), breadth 172mm (6 3/4"), thickness 10mm (5/8") which is probably typical of late medieval tiles in Northampton. It would appear that at least some local tileries were producing good quality products a century before a Royal Statute of 1477 (Stat 17 Edw 1V) which decreed that roof tile was henceforth to be 10 1/2" x 6 1/4" x 5/8": this was intended to increase roof life by standardisation and stem the prevalent flow of inferior wares. The tile is in fabric M3: the peg-holes have a diameter of 14mm and are 56mm apart. The lower portion of the tile has been coated with a lead and copper glaze. A shallow incised line which runs diagonally below the right hand peg-hole is indentical to examples from The Riding (Denham 1984c, (M)78). All known examples of tiles from excavations in Northampton in which the area below the right hand peg-hole is present bear this mark (M2, M3, M4, M4(2)). Suggestions regarding the significance of this feature remain purely speculative, but it is possible that it was used to indicate that the tiles were intended for the Northampton market as they were probably produced outside the town. Alternatively, the line may have been for tally marking, quality control or as a locational aid for perforation and glazing.

At St Peter's Gardens pag tiles were recovered in fabrics Mi, M2, M3 and M4(2) with an average pag-hole diameter of idea and separation between holes of 50-56mm. There is no evidence to suggest that tiles were other than double pagged. The majority of tiles classified as flat roof indeterminate are likely to represent the undiagnostic portions of pag tiles.

The ratio of flat roof tile to ridge and probable ridge tile (curved indeterminate) is 11.3:1. Ridge tiles occur in most fabrics and two examples with pyramidal crests, one hand-movided and one knife-cut, are illustrated (Fig (M)18, 2-3). A highly abraded crested ridge terminal (M1(1)) with thumbed applied strip was recovered from a Phase 4Ai/4Aii context. A similar piece was found at Derngate (Denham 1984a, (M)49). All ridge tiles are U-shaped in profile and give no indication of roof pitch. Ridge and pag tiles were commonly coated with lead and copper glazes, but because the glazes were partial and most excavated pieces are small, it is impossible to establish if any tiles were totally unglazed.

Only one piece of hib tile (M4(3)) was found and this occurred in Phase 4Bii, supporting the suggestion that hib tiles

post-date pag tiles and are not found in contexts dating to before 1700. (Denham 1984a, 35). The pantiles, also in M4(3), are the first to be recovered from excavations in the town and are of type Bi (after Davey 1961, 154).

A piece of flat roof tile bearing an animal print is of intrinsic interest (Fig (M)18, 4). The print was made by the paw of a medium sized dog. Such impressions upon Roman tiles are well documented (eg Cram and Fulford 1979), but are less well known from medieval assemblages. It has been suggested (perscomm I Betts) that because of their weight, Roman tiles were laid out to dry on the ground, whilst relatively lighter medieval tiles were able to be stacked on end or dried on racks, which generally would have afforded better protection.

Various fabric types have been tentatively linked to kiln sites (Table (M)7). No sources have been located in the immediate vicinity of Northampton, but the presence of a single waster of flat indeterminate roof tile in M2 may suggest that this fabric (the most abundant) was more locally produced.

### Floor Tile

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æ. ø. Floor tiles are poorly represented and only ten fragments were recovered, one with relief and slip decoration. The limited size of the sample is in keeping with the comparatively modest status of dwellings on St Peter's Street, although the properties fronting Marefair to the north might be expected to have been of a higher quality. The plain tiles were generally glazed and show signs of considerable weer.

Fabric M5(4) is confined to floor tile and is of uncertain origin, but is close to fabric M5(3) with a notably high iron ore content. The decorated example is similar in design to the products of the Penn tilery in Buckinghamshire (pers comm D Mynard) and may either have been imported, or in view of the mineralogy, represent the work of an intinerant tiler from that area. The tile was poorly stamped with a wooden die : the depth of decoration is uneven and the vertical line indicated by stippling on the illustration (Fig (M)18, 5) is almost certainly a crack in the stamp. The sunken areas of the tile have been filled with a white-firing clay, probably a direct application to the die, and the murface has been coated with a clear lead glaze. The design is previously unrecognised, but it appears to contain elements similar to Penn design 38 (Mohler 1942, 31) in addition to the wing of a dragon. The tile was recovered from a Phase 4Aii/Bi context but a 14th century date for its manufacture can be proposed on stylistic grounds and as attested by documentary records (idea, 21-24).

The upper glazed surface of a plain floor tile in MS(4) has been sliced across the diagonal through approximately half the total depth of the tile (tile thickness: 25mm (1"); depth of cut c. 12mm), but it is impossible to ascertain whether the tile had been laid as a full square or had been snapped to allow use as a half-piece. Similar examples were found at Greyfriars (Eames 1978) and one worn tile bearing traces of mortar had evidently been laid intact, despite having been scored into eighths. This would suggest that scoring at the tilery allowed the purchaser

to divide the tile to his requirements or incorporate unsnapped tiles for decorative effect.

### Brick

A PARTY

を 100mm 10

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A neavily exidised fragment of brick from Phase 4Ai had probably been used in a hearth. A similar use of brick was recorded in House 4 at St Peter's Street (Williams and Williams 1979, 326). Given the small size of individual pieces and the sample as a whole, little can be said about the rest of the brick pieces (Tables (A)8-10).

### (iv) Newly Identified Fabric Types

### M4(3) Date: Post-Mediaval Source: ?Local/N E Northants

Similar to M4(1) and M4(2) but with abundant variable angular and rounded black and red iron one fragments, 2-8mm. Rare to common muscovite flakes, and rare poorly sorted angular quartz and calcargous inclusions. The fabric may be extremely laminated or more evenly textured depending upon the size and sorting of the iron one fragments. Better produced examples have a sanding of extremely fine angular quartz: a coarser sanding of poorly sorted ferruginous and opaque quartz typifies the more laminated tile. Surfaces are unglazed and light red (2.5YR 6/8) to reddish yellow (5YR 6/8) in colour. Only nib and pantiles have been recognised and a post-1700 date is probable.

### M5(4) Date: Medieval Source: ?Local/?Penn, Bucks

Similar fabric to MS(3) but with less frequent well sorted coarse opaque and ferruginous quartz (<imm); rare to common muscovite flakes and rare to common poorly sorted angular red and black iron one (< 2mm).

A higher fired fabric than M5(3), frequently oxidised throughout with red surfaces (2.5YR 5/6) and margins, and eccasional grey core (N 5/0). Commonly iron-slipped on upper surface with variable lead and copper glaze (10R 3/3, 3Y 3/2, 3YR 4/4. Decorated and plain floor tiles have been identified in this fabric and they are of Greyfriars type 2 (Eames 1978, 125).

entropies Sela	Føbric																
-Mass	Mi,	#i,	#2	M3	H4.	M,	H43	HS,	MS,	M∑a	M5.	M6	<b>H8</b>	MP.	HB.	ind.	Total
41	33 (5)	2(1)	44 (2)	23(5)		4		1(1)				1	1(1)	Į.	10	5	(10 (15)
MAL/4ALL	2(2)		46 (2)	22 (3)	1	4										ı	76 (15)
4ALI	6(3)	7(5)	54 (14)	23(10)	2				i		1(1)		1			4	101 (33)
4811/401		3(3)							1(1)		2(2)					i	7(6)
48) 1/401 401	ı	1(1)	4(2)													1	7(3)
44011				5		ı	12						3				22
Unas digned	2		2(1)	3(2)		1	3								4	4(1)	19(4)
Unstratified	12(1)	1	53 (12)	27 (10)	1	5(1)	1	1	10(7)	1(1)	10)				1	9(2)	123(35)
<b>To</b> tal	(2(1)	14(10)	209 (41)	193 (30)	4	<b>(5</b> (1)	17	2(1)	12(8)	101	4(4)	1	5(1)	1	6	25(3)	473 (111)

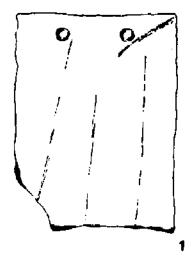
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A. 7.																	
Table (N)8:	<u>Q</u> ccurr <del>e</del> n	ce of Di	fferent F	abrics by	Phas	<b>10</b>											
	Føbric	i															
Phese	Mi,	His	#2	M3	H4,	H,	H43	HS,	MS,	M∑a	MS,	116	<b>58</b>	MPs	MB.	ind.	Total
AAL/4ALL	33 (5) 2 (2)	2(1)	46 (2) 46 (2)	23 (5) 22 (3)	ı	4		Ш				1	1(1)	I#	1+	5 L	(18 (15) 76 (15)
. Hii	6(3)	7(5)	54(14)	23(10)		•			i		1(1)		1			4	101 (33)
44) 1/401		3(3)	4185						1(1)		2(2)					1	7 (6) 7 (3)
40i 40ii	ı	1(1)	4(2)	5		ı	13						3			i	22
Unassigned Unatratified	2 12(1)	ı	2(1) 53(12)	3(2) 27(10)	1	1 5(1)	3 1	1	10(7)	1(1)	10)				4	4(1) 9(2)	19(4) 123(35)
Total () = glazed (	12(1)	14(10)	209 (41)	193 (30)	4	<b>(5</b> (1)	17	2(1)	12(8)	101	4(4)	1	<b>5</b> (1)	1	6	25(3)	473 (111
() = glazed (	Pieces	• •	intrusiv	1													
 	Occurre	nce of Di	ifferent F	abrics by	r For	<b>1</b>											
	Fabric																
Fore	61,	H1.	MŽ	#3	M4,	H4,	M43	M5.	M\$,	M5 ₂	M5,	, H6	MB	MB ₃	MĐ 4	Ind.	Total
Peg Ridge	3(3)	10)	12 2(2)	12(1) 3(2)		1	1									t	27(1) 7(8)
Pantile Curved Ind.	4(3)	8(7)	<b>4(1)</b>	4(3)		1	7	1	10)							1	7 26(13)
Flat Roof																	
ind. Most/Fiber	46 (7)	\$(2)	190 (37)	\$4 (24)	4	13(1)	7		Ŧ(6)				5(1)			5	366 (78)
floor			10)					£(£)	2/12	1613	4/41	1				17(5)	17(3) 10(8)
Pict			1117					1117	****	4347	71-1	•		1	•	i	•
Tétal		10(10)	207(41)	(03 (30)	ŧ	<b>t5</b> (1)	17	2(1)	12(0)	to	4(4)	ı	5(1)	1	6	25(3)	473(11)
() = plazed s	iees																
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Mable (A)10: Occurrence of Different Forms by Phase

<b>W</b> 5										
# 										
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F.										
<i>‡</i>										
toria Vint										
fable (A) 10: B	<u> Leallanci</u>	of Diffe	rent Fores	by Phase						
	fore									
	Nib	Peg	Ai dge	Pantile	Carved	flat Roof	Roof/Floor	Floor	Brick	Tota
		•	•		Ind.	Ind.				
. Phese						488495		5441	٠.	148/45
AAL AAL/AALI		0(1) 6	3(2)			104(13) 66(13)	1 1	2(1)	3 <b>÷</b>	118(15 76(15
Ani i		2	6(6)		11(8)	76(17)	į	2(2)		101 (33
		•	• 107		3(3)	1	•	3(3)		7(6)
4811/481					ı	P(2)				713)
481 1/401 401				á J	2 3	13				22
4816/481 486 4815	i			1	3	8(3)	3(1)		4	19(4)
4Ali/4D1 4Bi 4Bii Unassigned	i			•				# / A :	1	123 (35)
4Ali/4Bl 4Bi 4Bii Umassigned Unstratified	i	13		•	6	92 (29)	8(2)	3(2)	L	
4Ali/4Bl 4Bi 4Bii Unassigned Unstratified Total	1	13 2 <del>7</del> (1)	7(9)	,		92 (29) 364 (7 <b>8</b> )	8(2) 17(3)	10(8)	0	
4011/401 401 4011 Unassigned Unstratified	1		<b>4(8)</b>	-	•					473(111

### 

, - · ·	la for	•	Fabric	Thickness (an)	Ext	Coi	our fa Care		Int		Cole glas		Colour \$110	Context	Phase	Connents
1			M3	l 6	5YR	6/8	10 <b>YR</b>	5/1	5YR	6/8	51	5/4		AA66.3	401	Haker's mark
. 2	l Cra		#3	12	SYR (	6/8	IOVR	5/1	5YR	6/B	54	5/4	2.5YR 5/4	M473	4ALL	Hand moulded crest
3	Cres ride		H1 (2)	9	SYR (	6/6	N5/0		SYR -	6/6	<b>5</b> Y	6/4		155,7	4611	Knife cut crest
4	Flat		<b>#3</b>	14	SYR (	b/ <b>b</b>	10YR	5/1	SYR	5/ <b>É</b>			2.5YR 5/4	AA305	4	Canine cam print
5	floo	r 1	H5(4) )	21	2.546	R 5/6	<b>115</b> 70		2.54	R 5/4	SYR	5/4	10YR 7/6	<b>¥32.</b> 3		Crack in stage stimpled





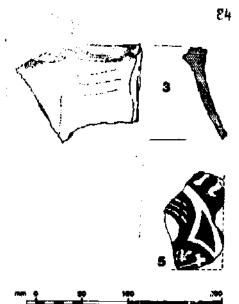


Fig (A)18: The Dermic Tiles

# THE ARCHITECTURAL FRAGMENTS by Hugh Richmond (architectural description) and D S Sutherland (petrological identification) Fig (M) 19

AF1	Tessera, traces of opus signiaum. Fine grained cream limestone, ?Blisworth Limestone. L: 22mm; W: 22mm; Th: 16mm. AA162, Phase 3?, SFSt288.
AF2	Section of undecorated circular shaft. Limestone of shell fragments, not really colitic, possibly Blisworth Limestone. L: 300mm; Diam: 110mm. AA307, Phase 4Ai, SFSt87.
AF3	Stone fragment worked into two hollows on opposite faces. Brown ferruginous sandstone, Northampton Sandsource. Y8, Phase 4Aii, SFSt44.
AF4	(ill). Chamfered and moulded block; ?cornice. Ferruginous sandstone, Northampton/Duston type. Y8, Phase 4Aii, SFSt49.
AF5	(ill). Unidentified fragment. Shelly politic cemented limestone, Barnack type. Y31, Phase 4Aii, SFSt57.
AF6	Pyramidal stop. Yellowish-brown ferruginous sandstone, Northampton Sand source. Date: 12th century onwards, probably 13th-14th century. Y31, Phase 4Aii, SFSt56.
AF7	Unidentified fragment. Yellowish-brown ferruginous sandstone, Northampton/Duston type. Y10, Phase 4A1i/Bi, SFSt47.
AFB	Unidentified fragment. Ferruginous sandstone, Northampton/Duston type, Y10, Phase 4Aii/Bi. 9F8t51.
AF9	Fragment of a half round shaft. Yellowish brown ferruginous sandstone, Morthampton Sand source. L: 95mm; Diem: 72mm. AAS, Phase 4Bi, SFSt76.
AF10	Small chamfered stone; worked on chamfer and front face. Orange brown ferruginous sandstone. Northampton Sand source. 1: 300mm; W: 140mm; Th: 100mm. AAS, Phase 48:, SESt77.
AF11	(ill). Unidentified fragment. Brown ferruginous sandstone, Northampton Sand source. AAS19.1. Phase 4, SF8t281.

(ill). Fragment of grave footstone. Inscription JS1693 AS1700. Brown ferruginous sandstone,

Northampton/Duston type. W+, SFSt1.

**AF12** 

- AF13 Fragment of a rectangular slab with a convex upper surface ?grave cover. Ferruginous sandstone.
  Northampton/Duston type. W: 520mm; Th: 40mm at edges, rising to 100mm at centre. 8+, 898t41A.
- AF14 Three-quarter-round shaft with drilled central hole for vertical dowel. Shelly colity: limestone, ?Barnack type. L: 110mm; Diam: 100mm. W+, SFSt67.
- AF15 (ill). Fragment of a moulded joint from a rectangular opening; two rolls separated by a quirk. Brown ferruginous sandstone, Northampton Sand source. X+, SFSt43.
- AF16 (ill). Fragment of an attached octagonal shaft with carved capital; abacus with indented triangle decoration; leaf carving on bell; roll between two quirks on the astragal; chevron carving on the shaft. Brown ferruginous sandstone, Northampton Sandsource. Date: mid-12th century. (AA570) = +, SFSt286.
- AF17 Unidentified fragment. Shelly ferruginous sandstone with Trigonia (cf Brixworth type NB). +, SFSt302.
- AF18 Part of a moulded opening with a housing for a metal bar; possibly re-used and roughly re-cut; mortar on one surface. Ferruginous sandstone, Northampton/Duston type. +, SFSt318.

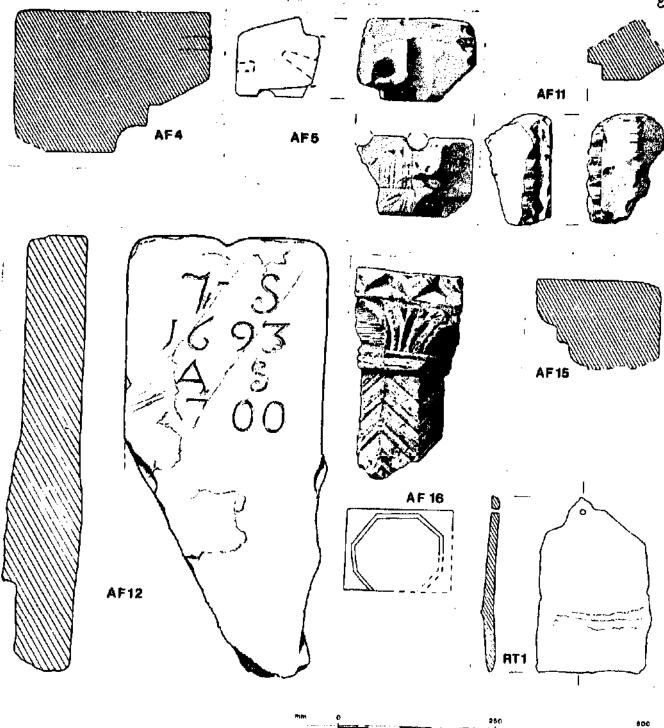


Fig (M)19: The Architectural Fragments and Stone Roof Tile

### THE STONE ROOF TILES

by Michael Shaw (description)

and L S Sutherland (petrological identification)

Fig (M) 19

- RT1 (ill). Complete tile, pierced central hole, pointed at top. Fine grained fissile limestone; Upper Estuarine Limestone. L: 290mm; W: 180mm; Th: 8mm. AA66.1, Phase 4Ai, 8FSt301.
- RT2 Tile fragment, pierced hole 14mm diameter. Fine grained sandy limestone/calcareous sandstone; Upper Estuarine Limestone. W: 165mm; Th: 16mm. W11, Phase 4Ai. 9F9t332.
- RT3 ?Tile fragment. Fine grained fissile limestone; Upper Estuarine Limestone. W: 210mm; Th: 12mm. AA66.1, Phase 4Ai, SFSt300.
- RT4 PTile fragment. Very shelly, fissile limestone, abundant spines, oyster rich, some Placunopsis; Upper Estuarine Limestone. W: 350mm; Th: 10mm. AA66.1, Phase 4A1, 5FSt299.
- RT5 Tile fragment, pierced hole 10mm diameter. Fissile shelly limestone; Upper Estuarine Limestone. Th: 8mm. AA375, Phase 4Ai, SFSt323.
- RT6 Tile fragment, pierced hole 9mm diameter. Coarsely shelly limestone; Upper Estuarine Limestone. W: 75mm; Th: 10mm. AA544, Phase 4A1, 8FSt319.
- RT7 Tile fragment, pierced hole 8mm diameter. Partially ferruginous calcaneous mandatone; possibly Northampton Sand. Th: 5-15mm. Y31, Phase 4Aii, 9FSt321.
- RTB Tile fragment, mortar adhering to one surface, pierced hole 10mm diameter. Finely colitic sandy limestone; possibly Northants Sand/Duston type. The 10-25mm, YB, Phase 4Aii, SFSt327.
- RTP Tile fragment, mortar adhering to one surface, pierced hole 10mm diameter. Shelly limestone: Upper Estuarine Limestone. Th: 8-20mm. Y8, Phase 4Aii, SF9t328.
- RT10 Tile fragment, pierced hole 9mm diameter. Sandy limestone: Upper Estuarine Limetone. Th: 9~12mm. AA543, Phase 4Aii, SFSt324.
- RT11 Tile fragment, pierced hole 11mm diamoter. Coursely shelly limestone: Upper Estuarine Limestone. Th: 6-8mm. AA543, Phase 4Aii, 8FSt325.

- RT12

  Tile fragment, mortar adhering to upper edge, pierced hole 10mm diameter; very heavy for tile. Northampton Sand. Th: 10mm. W3, Phase 4Bii, SFSt316.

  RT13

  Tile fragment, pierced hole 9mm diameter. Colitic limestone; possibly Upper Estuarine Limestone. Th: 9mm. W+, SFSt315.

  RT14

  Tile fragment, pierced hole 8mm diameter. Fine grained brownish-grey micaceous sandstone; possibly Upper Estuarine Limestone. Th: 6mm. W+, SFSt320.
- RT15 Tile fragment, roughly pierced hole 11mm diameter. Fine grained sandy limestone; possibly Northampton Sand. Th: 8mm. (AA505) = +, SFSt322.

### THE HONES

### by Michael Shaw (description) and D T Moore (petrological identification)

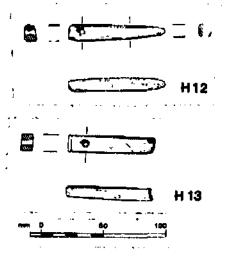
Fig (M) 20	F1	a	- (†	٩)	20
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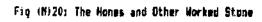
- Hi Hone, rectangular section; worn on all four faces; wide faces convex; narrow faces flat; shallow point-sharpening grooves on one edge; both ends rough, one chipped. Norwegian Ragstone. L: 112mm; W: 30mm; Th: 6-15mm. AA49, Phase 4Ai, SFSt79.
- H2 Fragment of a home, rectangular section; all sides worn, both ends broken. Norwegian Ragstone. L: 61mm; W: 18mm; Th: 12mm. AA66.4, Phase 4Ai, SFSt84.
- H3 Fragment of a hone, rectangular section; all surfaces worn; both ends broken. Norwegian Ragstone. L: 47-59mm; W: 25mm; Th: 3-8mm. AA204, Phase 4A1, SFSt85.
- H4 Fragment of home of rectangular section; all faces worn smooth and flat; tapers towards one end, both ends broken. Norwegian Ragstone. L: 53mm; W: 10-15mm; Th: 11-12mm. (W27) = 26. Phase 4A. SFSt19.
- H5 Fragment of a hone, rounded rectangular section; all faces worn flat; one end roughly finished; other end broken. Norwegian Ragstone. L: 100~115mm; W: 20~25mm; Th: 17~20mm. (W53) = 52, Phase 4A, SFSt20.
- H6 Fragment of a mullion; one narrow side worn smooth, other sides rough; both ends broken, one end blackened by fire. Norwegian Ragstone. L: 147mm; W: 31mm; Th: 8-21mm. AA73, Phase 4Aii, 8F9t81.
- H7 Fragment of a small home, rectangular section; worn smooth on three faces; tapers towards one broken end. Norwegian Ragstone. L: 33mm; W: 4-6mm; Th: 3mm. AA+, SFSt73.
- H8 Fragment of a hone, rounded rectangular section; broken at one end: wide fares flat with score marks (?point-sharpening grooves) along length of surface; narrow faces flat. Norwegian Ragstone. L: 114mm; W: 25mm; Th: 14mm. (AAI) = 4, SFBt75.
- H9 Fragment of a hone, triangular section; worn on all faces, wide faces flat, narrow faces convex; broken at both ends. Norwegian Ragstone. L: 60mm: W: 10-22mm; Th: 1-4mm. (AA69) = +, SFSt80.
- Hito Home, which to oval section; all surfaces heavily worn; wide faces flat, narrow faces convex; one end worn to a point. Mica schist. L: 83mm; W: 22mm; Th: 3~12mm. (AA170) = 167, Phase 2, BFBt250.

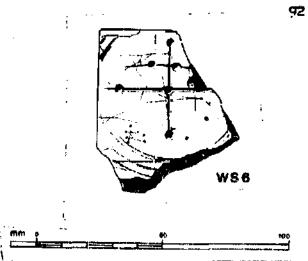
- Hii Fragment of a home or polishing stone; one wide face worn smooth; point-sharpening grooves on edges.

  Muscovite-bearing calcarenite. L: 75mm; W: 62mm; Th: 5-9mm. AA73, Phase 4Aii, 8FSt82.
- H12 (ill). Well fashioned pierced home, reutangular section; worn to a point at end away from hole; all surfaces worn flat. Quartz-muscovite wacke with ferruginous matrix. L: 76mm; W: B-10mm; Th: 7-8mm. (Y15) = 14, Phase 4Aii-Bi, SF8t45.
- (ill). Fragment of a well-fashioned pierced hone, rectangular section; all surfaces flat, edges bevelled; one end broken, other end finely finished with a bevelled edge. Muscovite-bearing calcarenite. L: 68mm; W: 13mm; Th: 9-10mm. (AA1) = +, SFSt74.
- H14 Small home, rounded rectangular section, chipped at one end; all surfaces worn flat, both ends rounded.

  Muscovite-bearing quartzarenite. L: 45mm; W:
  14-16mm; Th: 7-8mm. (AA39) = +, BFSt83.
- Small home, rectangular section; wider faces heavily worn to concave section; narrower faces also worn; one end thicker where normally held; point-sharpening grooves at this end. Micaceous grit of Coal Measures Sandstone. L: 73mm; W: 22-42mm; Th: 18-24mm. (AA337) = +, SFSt86.







## THE GUERN AND MILLSTONE FRAGMENTS by Michael Shaw (description) and Diana S Sutherland (petrological identification)

- 21 ?Guern. Fine grained pinkish-red sandstone, not local, possibly New Red Sandstone. Diam: 650mm; Th: 460mm. Z60, Phase 1, SFSt72.
- Q2 ?Quern fragment; ?grinding murface slightly convex, smooth; outer murface convex. Quertz/quertzite conglomera e; Cambrian mource. L: 280mm; W: 110mm; Th: 70mm. AA127.1, Phase 2, SFSt230.
- Quern/milistone fragment; flat grinding surface; outer surface convex. Reddish quartzite conglomerate; Cambrian or New Red Sandstone source.
  L: 190mm; W: 130mm: Th: 75mm; (AA142) = 127.2, Phase 2, SFSt96.
- Q4 ?Quern. Very fine grained brown siltstone, not local. Diam: 740mm; Th: 320mm. Y102, Phase 3, SFSt63.
- Two joining quern/milistone fragments; flat grinding surface pecked in lines to a depth of 2mm at 50-60mm intervals; outer surface convex. Fairly coarse white arkose Milistone Grit. (: 455mm; W: 130mm; Th: 92mm; Diam: not ascertainable. Y31, Phase 4Aii, 8F8t52, 53.
- Quern/millstone fragment; flat grinding surface pecked in lines to a depth of 2mm at 35-55mm intervals; outer surface convex. Coarse white sandstone; Millstone Grit (or white variety of New Red Sandstone). L: 350mm; W: 194mm; Th: 130mm. Y31, Phase 4Aii, SFSt59.
- Q7 Quern/milistone fragment; flat grinding surface pecked in lines to a depth of 2mm at 20-40mm intervals; outer surface coarse white sandstone; ?Milistone Grit (or white variety of New Red Sandstone). L: 284mm; N: 150mm; Th: 90mm; Diam: not ascertainable. (Y4) = 2, Phase 4Bii, SF8t51.

### THE WORKED FLINTS by J L Humble

### Introduction

In addition to the collared urn, prehistoric activity on the site of St Peter's Gardens is attested by 158 worked flints. The material complements and extends the group of 176~examples recorded at St Peter's Street (Bamford 19794).

Most if not all the worked flints appear to be residual and none derive from contexts which could be securely dated as prehistoric. Incidence by phase is as follows:-

Phase	1	43	27%
11	2	12	8%
<b>0</b> 1	3	21	13%
**	4A1	12	8%
11	4Ai i	5	37
D	4Bi		
Pf	4Bi i	12	8%
Unassigned		30	19%
	Atified	23	15%

In accordance with the distribution of worked flint at St Peter's Street (idea, 290), over 65% of the assemblage was recovered from the westernmost trenches V, W, Y and Z. The average density across the site, including trenches X and AA, is only i flint per  $6.5 \text{m}^{\text{p}}$ .

Small find numbers used throughout the report are those used on site. The terms RHS and LHS are conventionally used and refer to the appropriate side of the dorsal surface with the bulbar and nearest to the viewer.

I am grataful to Helen Bamford for her comments and advice.

#### Raw Material

The flint is of variable quality, grey or grey-brown in colour, and contex retained by 67 pieces frequently appears rolled, abraded, weathered and sometimes iron-stained. The gravel terraces of the River Nene and the Northern branch of the Nene (c. 180m to the S.W.) would have provided a suitable local source for such material, which is also standard on other Northampton sites. All the worked flint is comparatively small in size (<55mm) and is compatible with these sources.

A quarter of the flints have grey or mottled grey-blue discoloured surfaces resulting from the process of contication (ie 'patination'). This varies in degree, but presence and extent does not appear to correlate with any recognisable morphological trait.

### Parent Material

### The cores are classified according to the system used by Clark in the Hurst Fen report (1960, 216).

#### Table (M) [1: Cores

Class	Description	Lenot!	Diameter	8F No
<b>A</b> 2	Single faceted platform, flaked part of the wav around. Flake scars only.	25 <b>aa</b>	26 <b>n</b> n	15
Bi	Iwo carallel platforms (one faceted), flaked part of the wav around. Flake and blade scars.	4iee	22 <b>m</b> m	81
82 Core fraggent	Two platforms (one faceted), one at an olique angle, flaked part of the way around. Flake and blade scars, Flake and blade scars.	26mm 31mm	26mm	92 5
•	, , , , , , , , , , , , , , , , , , ,	Length	Breadth	SF No
Core rejuvenation flakes	Flake and blade scars. Flake scars only.	36 <b>nn</b> 34 <b>a</b> g	24ma 29ma	12 187

The three cores, core fragment and one rejuvenation flake (SF197) appear to have been utilised as scrapers, and the other rejuvenation (lake was possibly used for cutting (SF12).

### Flakes and Blades

The flake and blade component of the assemblage was categorized as follows:-

Non-utilised flakes and waste material	63	44%
Utilised flakes	39	28%
Blades (15 utilised)	26	18%
Blade segments (7 utilised)	13	9%

Each piece was examined at X20 magnification for microscars, abrasion and polish consistent with use. Inevitably some examples have suffered damage through natural agencies and trampling, but 39 flakes exhibit regular edge-wear which may be regarded as the consequence of utilisation, probably in a wide range of domestic tasks. These include one flake without retouch, but possessing an extremely abraded edge at the distal end of the RHS, oblique to the long axis of the flake (SF131). This type of wear is likely to be the result of working a malleable yet resilient material such as hide (Hayden 1979, 207-229).

One flake has been crudely retouched and possibly represents an abortive attempt to fashion a tanged projectile point (8F141). Four other examples exhibit miscellaneous trimming and retouch (8F64, 115, 172, 173).

Tabulation of the breadth: length ratios for intact flakes illustrates the small size of the flints (Table (M)12): most are between 10-35mm in length and between 10-30mm in breadth. 19 intact flakes do not appear to have been utilised.

Table (M)12: Bivariate Frequency Distribution of Dimensions of Intact flakes

	Length i	n ee											Total
	¢	5	10	15	20	25	i	30	35	40	45	50	
B r A	5		i		2								3
ai d b	10 15		1		ń	1							14
h	20				1	4	2	3	1				11
I N	25				1	1	2	2	2	3			f1
•	30					1			2		1		2
•	35					•					•		
Total			2	1	υ	13	4	5	5	3	1		43

The majority of blades are between 15-45mm in length and 5-20mm in breadth; iS bear traces of use (Table (M)13). Blades are defined as roughly parallel sided flakes with a breadth; length ratio less than 1:2.

Table (N):3: Asvariate Frequency Distribution of Dimensions of Intact Blades

B	tenoth in an										Total	
r	0	5	10	15	26	25	30	35	40	45	50	
	5				1	Į.						ı
ó t	16			4	4	۱ :	<u> </u>	1				12
ħ	15					,	1	1	2	1		8
ı								2	1		1	4
'n	20									1		ı
R R	25									_		·
Total				•	5	5	7	4	3	2	1	26

Some of the blades are very small and could be described as of microlithic proportions.

In addition to 26 intact blades, the assemblage includes 13 blade fragments or segments, eight resulting from removal of the bulbar end and three the removal of the distal end; two have both tips removed. Signs of use are present on the unsnapped edges of seven pieces, which might suggest that breakage occurred during use, although blade segments are commonly identified as potential elements of composite tools (Clarke 1976).

The non-utilised flakes and waste material are of widely variable morphology. Most are small and all are less than 52mm in maximum dimension. In this category, cortex is present on 18 flakes. Very little could be described as workshop debris and the assemblage contains only eight primary flakes.

Table (M) 14: [aplement Typology

Scrapers	Description	Length	Breauth	SF No
End scraper	Retouch on distal end, dorsal surface.	29ae	19ma	106
End scraper	Steen rotwich on distal dorsal surface.	48ee	3 <b>4 m</b> a	177
End scraper	Trimming and light retouch on ventral surface of a broad flake.	25 <b>ee</b>	3644	195
Side/end scraper	Steep retouch on distal end and LHS, enreal surface,	2688	2400	108
Side/end scraper	Retouched on distal end and RHS, dorsal surface.	25ma	2146	179
Side/end scraper	Retouched on LHS. dorsal surface.	37	2i na	190
Miscellaneous				
Knife	Straight edged flake knife, retouched on dorsal surface, media)-			
	lower RHS.	5144	18mm	177
Borer	Carefa, retouch on the ventral surface has accentuated a sour on			
	the LHS originally formed by an awkward hinge fracture,	30am	19 <b>m</b>	199
Serrated flake	29 worn denticulations along 21mm of upper RHS of an intact pear-			
	shaped blade.	5200	2144	143
Waisted tool	Two laterally opposed notches displaced towards distal end of flake.			
	Both notches have been formed by step flaking on the ventral			
	surface and are worn through use. The LHS notch and the distal end			
	are also retouched on the dorsal surrace.	49aa	23 <b>m</b> e	128
Microlith	Obliquely blunted point, RHS. Steeply backed on LHS.	35mm	10em	54

Unly three of the classifiable implements may be regarded as characteristic of a particular industry. The single microlith constitutes a mesolithic element and some of the scrapers may also be of similar antiquity. The straight-edged flake knife and waisted tool are forms which have only been found in contexts dated by associated pottery to the later neolithic and early Bronze Age (Healy 1980, 228, 259). Waisted tools are a rare form and in comparison to other published examples (listed, ibid), which are typically execulte in proportions, the specimen from St Peter's Gardens is unusually small.

### Discussion and Conclusions

This limited assemblage lacks both stratified prehistoric contexts and contemporary associations which might enable more precise dating, and is typical in content of other residual flint groups recovered in Northampton during the excavation of later sites. Notable exceptions in the immediate vicinity of Northampton are Briar Hill (Bamford 1984), Ecton (Moore et al 1975) and Chalk Lame (Williams and Shaw 1981). The consistently small size of the flints is almost certainly a reflection of the limitations imposed by the available raw material, rather than the designed product of a specific flint working industry. Despite the small size of the sample, analysis of breadth : length ratios demonstrates the wide combination of dimensions represented by struck pieces of regular morphology. Some of the smaller blades, blade fragments and scrapers are probably of mesolithic origin although only the chliquely blunted point is diagnostic of this period. Two of the cares may also be mesolithic.

The remainder and bulk of the collection appears to be neolithic and domestic in character. Two implements are types which have only been found in later neolithic and early Bronze Age contexts, and these, in conjunction with much of the chronologically indeterminate flint which is likely to be of similar date, might indicate activity contemporary with the interment of the collared urn ((M)2/1).

The group form a useful supplement to the assemblage recovered at St Peter's Street (Bamford 1979, 290-295) and many characteristics and affinities appear to be shared.

### THE OTHER WORKED STONE

by Michael Shaw (description)

and D S Sutherland (petrological identification)

Fig (M)19

WS! Oval ?counter, flat bottom, concave top. Limestone, possibly Blisworth or other local limestone.
L: 22mm; W: 20mm. (Y70) = V87, Phase 1, SFSt329.

WS2 ?Jet ring, Y27, Phase 3, SFSt50.

WS3 Fragment of a spindle whorl. Chalk. Diam: 35mm. (AA132) = AA123.1, Phase 3, SFSt295.

WS4 Fragment of ?jet/lignite. Y146, Phase 3/4Ai, SFSt60.

WS5 ?Jet bracelet. (W20) = V1, Phase 4911, SFSt18.

WS6 (ill). Fragment of polished atone with mason's graffiti. ?Alabaster or clunch. (AA2) = +, SFSt78.

### THE MORTAR by Simon Hardy

The mortar report comprises:

#### Main Text

- A synopsis of the thin section analysis of the mixer residues and the mortam.
- (ii) Fabric type analysis.
- (iii) Summary

### Fiche

- (i) Thin section analysis of the mixer residues and the mortar.
- (ii) List of thin sections.
- (iii) Descriptions of fabric types.
  - (iv) Incidence of fabric types.
  - (v) Conclusions from the fabric type analysis.
  - (vi) Comparison of fabric types to mix residues in thin section.
- (vii) Contents of the Archive.

### (i) THIN SECTION ANALYSIS OF THE MIXER RESIDUES AND THE MORTAR

Initially 102 thin sections were examined (Table (M)15), including 34 which had been prepared for the St Peter's Street report (Williams J H 1979, 131→3).

Table (M)15

		Number of thin sections
St Peter's Street:		
mortar mixers	mix residues	6
	mix constituents	10
type series	· · · · · · · · · · · · · · · · · · ·	14
cthers		4
St Peter's Gardens:		
mortar mixers	Mix residues	21
	mix constituents	6
main hall	mortar spread	6
	foundations	4
	robber trench	_
large extension	foundations	14
	robber trench	
small extension	foundations	2
	robber trench	ĩ
others	, , , , , , , , , , , , , , , , , , ,	14
Tota:		102

The criteria for the analysis of the thin sections were:

- (i) the mineralogy, grain-size and grain-rounding of the sand fraction.
- (ii) the frequency of occurrence of other inclusions, commonly above sand g, ade. such as ceramics, limestone and ironstone.
- (iii) the ratio of aggregate/cement/voids.
  - (iv) the evenness of texture and composition.
  - (v) where uneven the presence of matrix banding or aggregate lineation.
  - (vi) the opacity and body colour of the section.
- (i) was accomplished by ribbon counting against a 1mm graticule, at x100 magnification, until the size (by Wentworth Scale class (Wentworth C K 1922)) and the roundness (by Powers' six class scale (Powers M C 1953)) of at least 100 quartz grains, had been recorded; (ii) and (iii) by estimations of the percentage area of the whole section occupied by each component, at x30 magnification; (iv), (v) and (vi) by a subjective non-scalar estimation over the whole section, at x30 magnification, the last (vi) under plane-polarised light. The samples were of two classes:
- (i) the multiple samples from single mix residues which may be treated as groups
- (ii) the samples from contexts related to the middle Saxon stone buildings which should be considered singly.

The data fall into two categories and these were therefore treated separately:

- (i) the grain size of the quartz-sand fraction was recorded over four classes of the Wentworth Scale and the roundness over the six classes of the Powers Scale. For each thin section a percentage frequency could therefore be calculated for each class in both grain size and roundness, giving ten values in all, totalling 200%.
- (ii) the remainder of the data, including the mineralogy of the non quartz-sand grains, which were so few as to make any percentage frequency meaningless, was compiled into composite petrological descriptions.

The quartz grain size and roundness data for each mixer residue group and each individual non-mixer sample were depicted graphically and visual comparisons made between groups, and between each single sample and each group. This yielded few positive results. A mean and standard deviation for each class of size and roundress within each single group was calculated. Using these data each of the ten mean values for each group could be compared to those of the same class from any other group or single sample by Student's T-test. Thus a score out of ten for the number of classes in which the difference between the values of any two groups or of any group and single sample was significant, or highly significant, could be given, a low score suggesting a close affinity between the two. groups. Scores for comparisons of material which might be expected to show an affinity were in some cases as high as for material clearly not related. In addition when thin sections were selected at random and the analyses repeated some showed greatest apparent affinity to groups other than those to which

they belong archaeologically. The low repeatability of the analyses and the high intra-group variability of the mix residues established the need for groupings of mortar to be compared to the mix residue groups rather than single samples. An attempt was made to produce contextual groups despite the probable presence of more than one mortar type in each contextual group. As might be expected the results for comparison between these contextual groups and the mixer residue groups were no more successful.

Several areas of difficulty can be identified. These problems arise in both the post-analysis treatment of the size and roundness data of the quartz-sand fraction, and of the remainder of the petrological information. In the former case the low repeatability of the data is a major problem but this is not independent from a second: the large intra-group variability, particularly of the mixer residues. It would appear that the groups are inadequately defined by the samples which constitute them; thus their means and standard deviations have not been sufficiently established. Furthermore, as might be expected, the range present within the groups comprising samples associated with one structural unit, such as those from the foundation trench of the large extension, suggest that mortar from more than one mix might be present. This hypothesis is confirmed by the subsequent fabric type analysis. The third substantial problem with the quartz-sand data is the difficulty in employing any powerful statistical test to the validity of the groups and their compatibility.

The difficulties which beset the analysis of the non-quartz mineralogy and the quartz types are the large intra-group variability and the very low frequencies involved. Indeed, so low are the frequencies that even the presence or absence of a mineral, such as chert or feldspar, from any one thin section analysis cannot be taken as meaningful. The variation of frequency of a mineral in any one group is at least as great as that between its mean frequencies in any two groups. A similar degree of variability is exhibited by the textural characteristics.

The factors contributing to the intractability of the thin section analyses fall into three categories:

- (i) the nature of the material studied
- (ii) sampling
- (iii) inadequacies in the methods employed for the analyses.

It is not within the scope of this report to weigh the relative importance of each category, let alone of the individual underlying factors, but these may be outlined. (i) In attempting to correlate a mortar with a mix residue it is necessary to make three assumptions: firstly that an attribute exists which is common to each; secondly that sampling is possible in such a way that the sample will share the attribute; thirdly that the attribute can be accurately measured. If the portion of a mix which remains in the mixer is not, in the attribute measured, representative of that which is removed, them a correlation will not be possible. Such a state might be produced in two ways: by the incomplete mixing of the contents of a mixer in which the original constituents are heterogeneous in the attribute to be examined, or by a process producing heterogeneity after mixing. Examples of the latter would include gravitational sorting of the mix, before or during removal or by

use; or the addition of material, differing in the attribute, after removal of the mix. Gravitational sorting may be discounted for the attributes of size and roundness considering the low range of settling velocity, in a liquid of such viscocity, between sand—size grains of different roundness, and the shortness of the time likely to have passed between mixing and setting. Whilst the possibility of the addition of sand of different characteristics, after the initial mixing in the mortar mixers, cannot be excluded, there is no reason to think it likely.

The former case, of the incomplete mixing of heterogeneous constituents, is the more probable cause of difficulties. The sand grains present in any one mix come from at least two sources which will almost certainly have different characteristics: the arenaceous fraction of the limestone used in the manufacture of the lime, and the aggregate itself. If mixing is incomplete and the sand to lime ratio at the base of the mixer, is different from that at the top, then the residue and the mortar removed will show different frequency distributions of grain size and roundness. The same may be true if batches of lime and aggregate from several sources are incompletely mixed. Considering the geology of the possible sand sources it is quite possible for different loads, even from the same quarry, to show differences in grain size and roundness, and the possibility of more than one sand source being exploited contemporaneously cannot be excluded.

It can be seen that considerable difficulties exist even in comparing a single mortar to a single mix residue and these problems are compounded if various mix residues and various mortars are grouped before comparing one to the other. (ii) Sampling presents difficulties at every level. For example, evidence is discussed later in the fabric type analyses to show that no mix residues were discovered during the excavation for two of the mortar fabric types identified as being used in the construction of the main hall and its extensions. Similarly it is of course possible that further stone buildings lay beyond the limits of the excavation and that some of the mix residues recorded may relate to their construction. The intra-group variability, which may in part be due to an inadequate number of grains counted in each section, means that the number of thin section analyses for each group is too small for the groups to be regarded as well established. These factors also dictate that mortar groups are desirable rather than single samples. The grain count was again too small to allow the importance of the non-quartz mineralogy to be objectively assessed.

With the benefit of hindsight the methods and techniques of the thin section analysis may be criticised on a number of points. The advantage of fabric type analysis as a preliminary to thin sectioning can be seen. The number of samples sectioned, and of grains counted in each slide, in this case defined by restrictions of time and cost, was inadequate given the variability of the material involved. When considering grain size the sample assessed should be of the order of 300 grains and a wider range than that of the Wentworth sand grade is desirable. The Wentworth Scale, being logarithmic, is not suitable for the recording of size over a narrow range (Pettijohn E J 1975, 34-52). Grain size should be recorded not in a few broad classes but pyer as many, narrow classes as

practicable. It is questionable whether grain size analysis is best carried out in thin section, but this does allow the mineralogy of a grain to be determined and in some cases the presence of grains of a certain size and mineralogy may be diagnostic. Grain roundness can be easily examined in thin section and the differential rounding of grains of different mineralogy can be recorded. It is, however, notoriously difficult to assess roundness accurately, Platt, Middleton and Murray assert that: 'it has been shown that the accuracy of visual comparison methods is so low that, for the same sample of grains, different operators may estimate mean roundness values that differ by a whole roundness class. Even precision (reproducibility by the same operator) is often poor' (Blatt H. Middleton G and Murray R 1972, 65). Assessments of grain coundness may, however, be desirable where a wide range of mean roundness is present between definable groups.

The mineralogy of the sand portion of a mortar is readily examinable in thin section and may well be diagnostic. A high grain count is needed, however, for it to be recorded objectively because of the low frequency of non-quartz sand in most samples. This process need not be too slow if an automated mechanical slide carriage and point counter is used.

### (iii) LIST OF THAN SECTIONS

					Fabric		
Site Ho	TSMF	Context No	Feature Tyc	90	Type	6roue	Nors
M115: St Peter's Street	1	F362.2	Mixer I: un	mixed lime	<del>-</del>	14111	
		F362,4	2	h	-	(viii)	
	3	F382.5	ų	•	_	(V111)	
		F362.5			-	19111)	
	5.	F362.6	•	ι,	-	(1111)	
	6	f363.1	Ün	mixed sand	-	(1x)	
	7	F363.1	N	•	-	1187	
	8	F363.2	1	d	٠,	tixa	
	ç	F3e3.2	•	y	-	71.8)	
	íů	1 353. 3	unknown		-	-	Excluded
	11	ł Sal	Mixer 2: Mi	# Fesioue	•	-	Single member grou
	12	F361	" Aq	gregate	-	-	Excluded
	13	5254	Miker 3: Se	condary bix	-	(3)	
	14	6754	•	•	-	123	
	15	82 <b>5</b> 4	•	4	-	(i)	
	:6	6265		ldary mix	•	1117	
	17	6255	a	ę	•	1111	
	lä	F145#	Mortar spre		•	-	insufficient sand
	Îż	F1456	•		-	•	•
MIGG: St Peter's Street:		F	-	•	1	•	Single member group
Type Series	21*	-	-	-	2	-	r
	22	-	-	•	5	-	•
	23	•	-	•	4	•	•
	24	•		-	5	•	*
	25	-	-		6	-	*
	26	N1788		rch: Wall plaster	7	(xii)	
	27	N1788	•	ej	7	(HÉE)	
	28	K1785		P	7	(xii)	
	29	N188	ы	Floor spread?	ð	-	Insufficient wand
	30≢	-	-	-	9	-	•
	31	-	-	•	10	-	
	32	-		-	11	- ,	Single member group
	33	N178A	Ainsier Unur	rch: Wall bonding	12	, ,	·
1115%: St Peter s Gardens	34	W50.2	Mixer M50: S	Secondary mix	•	CHIPTIPE	
	35	W50.2	t		-	(Liáztiv)	
	36	WS0.6	1	tr.	-	(i1) (iv)	
	33	₩ <b>5</b> 0.8	<b>*</b>		-	(111) (11)	
	38	₩50.a	•	•	-	(111) (111)	
	390	W50.7	•	•	-	unitari	
	4Ŭ#	M50.7	п	4	4	(HED HV)	

Secondary mix

(111) (177

(v)

1111

insufficient sand

N50.8

W50.8

N50.9

M50.9

W50.9

W50.11

41

42

43

44

45

4?	W50.11	4	"	-	(14)	
48	<b>∉50,</b> £1	•		-	(iv)	•
49	W50.12		Prisery mix	-	(y)	
<b>5</b> û	#129.1		9t Secondary mix	-	TAP	
51	#129.1	•		-	(41)	
52	W129,2	٠	Primary mix	-	1411	
53	W129.2	**	rt.	-	(V11)	
54	2129,2	-	4	-	(11/1)	
55	<b>%129.4</b>	и	unmixed like	-	-	Insufficient sand
Šŏ	W129.4	•	1	-	( <b>X</b> )	
57	W129.4	¥.	<b>N</b>	-	•	Insufficient sand
58	W129.4	4	4	-	(x)	
59	W129.4	•	•	-	( <b>x</b> )	
ΔÜ	W129.5	u	Ungixed sand	1-	(XI)	
61	W129.5	al	•	-	(xi)	
621	W129.13	1.	Secondary mix	-	ivi:	
43	<b>#9</b> 0	Post-hole		P	(RV11)	
54	(m119)≃V6B	Large exte	enszon: Foundations	(7	(nv) (nviáz)	
55	(W119)=Va8		•	¥11	-	insufficient sand
36	(494-11-68		k	<del>1</del> 1	(xv111)	
574	:469,11=68	2:	¥	-	-	Limestone
96	(70/ <b>7</b> 1)= <b>68</b>	đ	•	L	(KALIT)	Single weeter gro
5 <b>9</b>	(AA(27,1)=127,12	Maic hall:	Foundations	Ţ	-	•
70	(AA127.2)∓127.12	3	•	ני	(4%)	
71	(A4:43.9)=127.1	L.	k .	č	(vx)	
72	(AA151)=151.1	Lacon evto	nsion: Foundations	_	1X4111)	
73	(AA)51/=151.1	THI ME EVE	*	02	(avi)(xviit)	
74	AA151 = 151, I			-	(KAT21)	
75	(#A159.01-151.2	ņ		_	******	Linestone
76	1AA159.01=151.2	4		_	(xviii)	C1463(Alle
77	(AA159,1/=151.2	*	ŧ	02		
78	(AA159.11=151.2		4	-	(xviii)	
					18V111)	
79	(AA159, 1/=151.2	2	ılı .	-	(xviii)	
80	(AA159.1)=151.2	" "		•	(RV()))	
81	(AA159.1):151.2	7		Ú7	(XA1) (XAEII)	
82	(AA159.1)=151.2	•	Ħ	-	(KA1 į I)	
83÷	(AALS9.1)=151.2	•		•	tzviiii	
84	AAIbi	Morter spr	ead	ני	(XA) (XIX)	
85.	AAto!	•		-	(x1x)	
6ъ	(AA163)=151	•	1	-	(***)	
ð?	(AA!77)=151	,	,	-	(*1*)	
88	(AA177)=161	4 ,	1	-	(KEX)	
994	(AA)77:=161		•	-	(	
90.	99508	Small exter	asson; Foundations	0,	1881	
ð:	AAZOB	•	u	63	TRAT:	
92	(AA2191=206	i3	Robber trench	دط	(xy[1]	
93	(AA405)=127.10	Main hall:	Foundations	•	•	Single member grou
94	F363.1	Mixer One:	Unmixed line	-	(1)()	
<b>9</b> 5	-	-	-	-	-	Excluded
9 <b>6</b>	-	Mixer One:		-	-	H
97	•	•	•	-	-	•
98	•	Đ	•	-	-	11
99	-	•	•	-	-	•
.,						
00	•	•	н	•	-	•

MII5: St Peter's Street

	102	•	1	•	ä	19	-	•
MilSk: St Peter s Gardens,	103	AA543	Pit			A	(x15j)	
	104	AA540	Post-h	ole		A	(3111)	
	105 8	(AA1) = +	-		-	A	(xrii)	
	105 U	(AAI) = +			-	Ř	(xifi)	
	106	(AA) 23. 16)=123.1	Maun h	all: Rob	ber trench	£	(x1v)	
	107	9A543	Pit			8	(KįV)	
	108 0	(AA137,5/#13a	Sunken	-feature	d burlaing	Á	(xiii)	
	198 ()	(AA137.5)*136			è	B	(riv)	
	109 0	(AAE37.5)=136		•	À	A	(kiii)	
	109 0	(AA137.5)=13a		•	P	В	(xiv)	
* - b								

Explanation: TSMP

- the individual sample number allocated to each thin section.

7*

- indicates that this was one of the analyses repeated.

Insufficient sand - analysis was not possible because of the baucity of sand-size grains, that is less than 100 in the whole section.

1060

- overlying coat.

; òBU

- underlying cost.

### (iii) DESCRIPTION OF FABRIC TYPES

Type A: (TSMP 103, 104, 105 0/U, 108 0, 109 0)

Body colour: Fink to light reddish brown (5YR, 8/3, 7/3, 7/4, 6/4 (M))

Sand/lime: Sandy

Hardness: Hard

inclusions: --

Unmixed lime:  $2\sim7\%-0.5\sim13$ mm Sub-angular - Rounded Limestone, some

burnt red: <2% 2 - 7mm Angular - Sub-angular

Ironstone: <1% 0.5 - 2mm Angular

Voids: 2 - 5% <6mm

Surface treatment: Ai - level surface with white limewash <1mm

thick

Air - level surface

Aili - no surface treatment

Fragment size (approx) - Ai: two thickness classes; 20 - 30

გიძ 40 ~ გ5mm

Air maximum width 160mm

Other features: Type Ai occurs overlying Types Ai (thickness

6mm and 20mm respectively); Aii (4mm and 20mm);

Bi (3mm and 18mm) and Bii (7mm and 19mm). In one fragment Types A and B abut with a single limewash applied over the joint.

The undersurface of all fragments not heavily

abradad is flat.

Type B: (TSMP 106, 101, 108U, 109U)

Body colour: White to pinkish white

(2.5YR 8/2, 5YR 8/1, 8/2, loyr 8/2 (M))

Sand/lime: Sandy

Handness: Hand

Inclumions:-

Unmixed lime: 1-3%=0.5-6mm Sub-angular - Rounded Limestone: <2%=2mm Angular - Sub-angular

Ironstone: <2% 0.5 - 2mm Angular

Voide: 1 - 3% K2mm

Surface treatment: Bi - level sumface with white linewash «2mm thick

Bii - level surface Biii - no surface treatment

Fragment size (approx):

Bir thickness 15 - 30mm Bir maximum width 80mm

Bilims in some samples Bili occurs with a maximum dimension of 70mm, this is recorded as Bilim

Other features:

Type Bi occurs underlying Type Ai (thickness 18mm and 3mm respectively) and overlying Type Bii (6mm and 17mm).

Type Bii occurs underlying Type Ai (19mm and 7mm) and overlying Type Cii (12mm and 6mm). Type Biii occurs overlying Type Cii (7mm and 12mm).

In one fragment Types A and B abut with a single limewash applied over the joint. The undersurface of all fragments not heavily

abraded is flat.

### Type G:

The mortar/plaster originally assigned to Type G was found to be insufficiently distinct from that assigned to Type B and was therefore assigned to type B.

### Type F:

Type F could be regarded as Type Ai overlying Type Bii but the underlying mortar/plaster is sufficiently distinct from Type B to justify a separate designation. As this underlying mortar/plaster only occurs beneath a mortar/plaster similar to Type Ai the two together have been designated Type F.

Surface mortar/plaster (of Type Ai)

Body colour:	Pink (SYR 7	74 (M))	
Sand/lime:	Sandy		
Hardness:	Hamd		
loclusions:~			
Unmiked lime:	s. 1 %	i 2mm	Sub-angular - Rounded
Limestone:	< 1.76	1 3mm	Sub-angul ar
Ironstone, some			
burnti	4.1%	1 - 2mm	Sub-angular - Sub-rounded
Voidas	< 1 %	<○.5mm	

Surface treatment: Level surface with white limewash  $<0.5 \mathrm{mm}$  thick.

Underlying mortar/plaster (cf Type Bii)

Body colours

White

(10YR 8/2 (M))

Sand/limer

Sandy

Hardness:

Hard

inclusions: ~

Unmixed limes 2 - 5%0.5 - 12mmSub-angular - Rounded Angular - Sub-rounded Limestone: < 1% Q.5 - 3mm

Voids:

1 - 2% 0.5 - 2mm

Surface treatment:

Level surface, surface mortar/plaster applied whilst underlying mortar/plaster still wet so interface slightly diffuse.

Fragment size (approx):

Surface mortar/plaster, thickness 2 - 3mm. Underlying mortar/plaster, thickness 8 - 16mm F: maximum width 45mm.

Other features:

The undersurface of all fragments not heavily abraded is flat.

Type I:

The mortar/plaster originally assigned to Type I was found to be insufficiently distinct from that assigned to Type F: it was therefore reassigned to Type F.

Type Ki (TSMP 65)

Body colour:

White

(closest to 2.5Y 8/2 (M) but white)

Sand/lime:

Very lime rich

Hardnessi

Soft

Inclusions:-

Unmixed limes < 1% 0.5 - 1mm Sub-rounded - Rounded 0.5 - 5mm Limestone: < 1 Z Angular - Sub-angular file, Orick, Daub: 11% J - 2mm Angular - Sub-rounded t - Omm Charcoal: < 1% Voider . 1% <2mm

Surface treatment:

N. 1 level surface with white limewash <2mm thick, this only visible in damp</p> សង្គាល្ព្រះនា

level surface, no discernible limewash Kii -

Kiii - no surface treatment

Fragment size (approx):

Ki: thickness 14 - 17mm Kiir thickness 14 - 30mm

ki&ii: maximum width 80mm

Riilm: in one sample blil occurs with a maximum dimension of 100mm; this is recorded as

Kiiim

Other features:

Type kii occurs overlying Type Rii (thickness

5mm and 20mm respectively)

The undersurface of all fragments not heavily

abraded is flat.

Туре Ба

The mortar/plaster originally assigned to Type E was found to be insufficiently distinct from that assigned to Type K and was therefore reassigned to Type ha

Type C: (TSMP 64, 70, 71, 77, 84)?

Body colour:

Very pale brown to pale yellow

(IOYR B/4 to 2.5Y 7/4 (M))

Sand/lime:

Very sandy

Hardnessa

Soft

inclusions: --

0.5 ~ 6mm Subangular - Rounded Unmixed lime: < 1% Limestone: 0 - 32O.5 - 4mm Angular - Sub-angular 4 1% Pronstonei 0.5 - 1mm Angular - Subangular thercoal:  $0 \sim < 1\%$ 0.5 - 1mm Angular - Sub-angular

Voids:

<12 ~32 · 0.5 ~ 2mm

Surface treatment:

C ~ no surface treatment

Cir - level surface: only occurs underlying

H GOVT

Fragment size (approx):

Maximum dimension 120mm

Other features:

Type Cii occurs underlying Type Bir thicknesses 6mm and 12mm respectively, and

Type Biii (12mm and 7mm)

Type C is found as sub-rounded fragments and adhering to fragments of limestone up to 150mm across and enveloping fragments of ironstone

and limestone up to 90mm across.

The mortar/plaster originally assigned to Type D was found to be insufficiently distinct from that assigned to Type C and was therefore reassigned to Type C.

Type H: (TSMP 89, 66)?

Body colour: Very pale brown (10YR 7/3 (M))

Sand/lime: Very sandy

Hardness: Hard

Inclusions: ~

Other reatures:

Unmixed lime: 1 - 2% 0.5 - 2mm Sub-angular - Rounded Limestone: <1% 0.5 - 3mm Angular - Sub-angular Ironstone: <1% 0.5 - 1mm Angular - Sub-angular

Voids: 1 - 3% = 0.5 - 2mm

Surface treatment: No surface treatment

Fragment size (approx): Maximum dimension 100mm

Type H is found as angular to submangular fragments. Several of the larger fragments retain angular impressions up to 60mm across and a few are of a distinctive concave-faceted.

polyhedral form.

Type S:

Body colour: White

(5YR 组/1 (M))

Sand/limer Lime-rich

Handness: Moderately soft

inclusions: -

Unmixed lime: 3% 0.5 - 2mm Rounded Limestone: 1% 0.5 - 4mm Angular - Sub-angular

Voids: 5% 1 ~ 10mm

Surface treatment: No surface treatment

Fragment size (approx): Maximum dimension 75mm

Other features: Type S is found as angular, vesicular

fragments.

Type L: (TSMP 68)

Body colour:

White

(closest to 2.5Y 8/2 (M) but white)

Sand/limes

Very lime-rich

Handnessi

Very soft

Inclusions:-

Limestoner Ironstone: Soils Voidst

5% 5% 30%

5 - 15mm 5 - 15mm 2 - 10mm

Angular - Sub-ar oular Angular - Sub-angular

30%

2 - 5mm

Surface treatment:

No surface treatment

Fragment size (approx): Maximum dimension 10mm

Dther features:

Type L is extremely vesicular and fragmentary and the samples in which it occurs contain a considerable proportion of soil and ironstone fradments up to 100 mm across.

Type Or

Body colours

White

(2.5Y 8/2 (M))

Sand/limer

Lime-rich

Handness:

Moderately soft

Inclusions:-

Unmixed Limer Linestones Chancoal: Verlider

1 - 2% 1 - 3% < 1.%

1 - 4mm 0.5 - 5mm O.5 ~ 1mm Sub-angular - Rounded Angular - Sub-rounded Angular - Sub-angular

0.5 - 3mm < 1%

Surface treatment:

No surface treatment

Fragment size (approx):

Maximum dimension 80mm

Other features:

Type O is found as angular fragments bonding limestone fragments up to 30mm across and in distinctive concave-faceted, polyhedral form.

Type Ri

Body colours

Very sale brown (10YR 874 (M))

Sand/lime:

Sandy

Hardness:

Hand

Inclusions:-

Unmixed Lines

Limestone:

ა.5 - 5mm 2 - 3%

1 - 3% 0.5 - 4mm Sub-rounded - Rounded Angular - Sub-angular

Voidsa

<1% 0.5 - 1mm

Surface treatment:

R --no surface treatment

Rii - level surface: only occurs underlying

Type Min

Fragment size (approx):

Maximum dimension 45mm

Other features:

Type Rii occurs underlying Type Kit

(thickness 20 and 5mm respectively). Type R

is found as sub-angular fragments.

Type P: (TSMP 63, 92)?

Body colour:

Pale yellow

(2.5YR 8/4 (M))

Sand/lime:

Very lime-rich

Hardness:

Soft

Inclusions: -

Limestone:

Charchali

1% 1 % 0.5 - 3mm

Angular - Sub-angular Angular - Sub-angular

Voidse

0.5 - 1005 - 10% 0.5 - 5mm

Surface treatments

No surface treatment

Fragment size (approx):

Maximum dimension 120mm

Other features:

Type P is found as angular fragments bonding limestone fragments up to 100mm across and in a distinctive concave-faceted, polyhedral form.

#### IU equi

Fart of the mortar/plaster originally assigned to Type J was found to be insufficiently distinct from that assigned to Type  ${\mathbb C}$  and was therefore reassigned to Type U. The balance remains as Type J.

Body colours

Pale vellow

(2,5Y 8/4, 5Y 8/3 (M))

Sand/lime:	Moderately sandy
Hardness:	Verv hard
Inclusions: Unmixed lime: Limestone: Organic: Voids:	<pre>&lt;1%     0.5 - 1mm     Sub-rounded 3%     0.5 - 3mm     Angular - Sub-rounded 2%     0.5 - 3mm     Rounded - Sub-rounded 3%     1 - 4 mm</pre>
Surface treatment:	No surface treatment
Fragment size (approx):	Maximum dimension 80mm
Other features:	Type J is found as angular to sub-angular fragments.
Туре Мі	
Body colour:	Pale Vellow (2.5Y 7/4 (M))
Sand/lime:	Sandy
Handnesst	Verv hard
Inclusions:- Unmixed time: Limestone: Ironstone: Charcoal:	10% 1 - 5mm Sub-rounded 1% 0.5 - 2mm Angular - Sub-angular 3% 0.5 - 4mm Angular - Sub-angular 41% 1 - 2mm Angular - Sub-angular 3% 0.5 - 7mm
Surface treatment:	No surface treatment
Fragment wize (approx):	Maximum dimension 60mm
Other features:	Type M is found as tabular fragments with one near flat fresh surface and another convex and abraded.
Type Ni	
Body colour:	White (SYR B/1 (M))
Sand/lime:	Moderately lime-rich
Handnessi	Moderately hand
lnc.us:ons: Limestons:	3% l - 8mm Anoular - Sub-rounded

1% 1 - 3mm Coranic: Angular 1 - 5mm Charcoali 17 Angular - Sub-engular 1 - 5mm Voidsi 37

Surface treatment:

No surface treatment

Pragment size (approx):

Maximum dimension 230mm

Other features:

Only one fragment was assigned to Type N; this bears a flat-faced rectangular impression >45mm by >130mm and 15mm deep. One face of this fragment has a partial coating of Type L.

TYPE O: (TSMP 73, 81, 90, 91)?

Body colour:

Pale vellow (2.5Y 8/4 (M))

Sand/limet

Bandy

Handnessi

Moderately hand

Inclusions: ~

Sub-angular - Rounded Unmixed limes <1% 0.5 - 2mmLimestone: <1% 0.5 - 2mmAngular - Sub-angular Voidsi < 1 X 0.5mm

Surface treatment:

No surface treatment

Fragment size (approx):

Maximum dimension 250mm

Other features:

Type O is found as angular fragments bonding limestone and tile/brick fragments up to 150mm

across.

Type Ti (TSMP 69)

Body colours

Pink

(5YR 7/4 (M))

Sand/limes

Moderately mandy

Handnesse:

Hard

Inclusions:~

Unmixed lime: 0.5 w 10mm Sub-angular - Rounded 5% 2% Limestone: l - 3mm Angular - Sub-angular Tile/brickr 10 - 30% 1 - 30mm Anguel ar

Votdst

1 ~ 3% 0.5 ~ 1mm

Surface treatment:

No surface treatment

Fragment size (approx): Maximum dimension 30mm

Other features: Type T is found as angular fragments.

### (LV) INCIDENCE OF FABRIC TYPES

Table (M)17

Type	Phase	Context		Total No. of Samples			Samples in resent	Special Types
					Ai	Aii	Aiii	
A	2	Main hall foundations	AA127.1	3	-	i	•	-
	3	Main hall robber	AA123.1	85	39	9	38	-
	_		.2	15	_	-	i	_
			. 3	7	_	_	4	•
			.8	10	4	1	4	_
		•	.10	5	4	2	3	-
	2	Other	AA 187	ı	-	-	1	-
	-	,	605	i	i	1	•	-
	3	Sunken-featured building	AA136. 140	20	16	4	7	Ai over Ai Ai over Bi
	3	Pits and post-holes	AA5B	i	1	J	-	
	-	•	64	1	1	1	**	_
			545	2	-	•	2	•
	3?	Pit	AA 8 62	2	-	•	2	•
	3/4A1	Post-holes	AABO	ı	1	_	_	Ai over Ai
			540	2	2	-	1	-
	<b>4</b> A1	Pits	AA66.1	i	1	-	•	
			79	3	3	•	-	-
			84	2	2	•	· I	-
			99	1	1	•	1	Ai over Bii
			100	1	1	•	•	•
			101	1	- 1	-	_	•
			345.1	1	- 1	1	-	-
			370	3	3	2	•	-
			377	ı	1	-	-	•
			509	t	-	-	1	•
	\$A1	Bully	AA93	2	-	•	2	
	4Ai	Wali	AA327	1	1	-	i	-
	4Aii	Pit	AA543	4	4	2	-	Ai, Bi butting
	4A	Pits	AA57	1	1	-	_	•
			320	1	i		_	_

B	1	?Post hole	AA943	i	1	-	-	-	-
	1/2	Post-hole	\$1 <b>61</b>	1	ı	-	-	-	-
	3	Main hall robber	AA123.1	85	32	14	29	4	Bill over Cir Bil over Cir
			.2	15	4	3	3	2	-
			, 3	7	í	-	2	-	-
			,4	7	-	2	2	1	-
			, 6	ž	1	1	-	-	•
			.?	1	1	!	1	-	-
			.3	Ιΰ	6	2	3	2	-
			. 4	ł	•	-	-	-	Bill over Cil
			.10	5	2	l	4	-	Bill over Cia
	2	Large extension four-nation	s V60 = (69)	4	-	-	17	-	-
	3	Small extension robber	AA206	5l	ŀ	2	-	-	-
	3	Sunken-featured buildings	¥158	1	1	-	_		_
	ř	dansen eden ed barronnys	AA136. 140	20	?	3	4	-	As gyar Bis As gyar Bis
	3	Pits	A#58	រ		í	_	_	ur data bit
	-		545	Ž	ι	-	-	-	-
	3	Pit/bost-hole	AA64	1	-	ι	•	-	-
	3	Laver	116	1	-	-	1	-	-
	\$ "	Past-holes	4A157	ì	1	_	_		_
	•		934	i	-	3	-	-	-
	3+4A ₁	Fit	¥77	5	i		1	-	
	5.441	Post-hole	AA\$40	2	•	-	ć	*	
	441	Pits	p479	3	3		_	~	_
	****	***	84	2	Ĭ	_	-	_	
			99	}	i	_	ţ	_	At over Bis
			101	i	-	i	-	-	
			345.1	l	1	i	•		-
			37 <b>e</b>	3	2	•	•	•	-
	4ù1	Laver-foundation	r108	1	1	-	*	-	-
	¢Á1	Sullv	440]	î	•	-	i	-	-
	141	dal)	AAN, T	1	1	-	-		-
	4611	F1*	9H5#1	4	1	-		•	Bi over Bir Ai, Bi tuttino
	44	F1*	AA 520	]		1		-	

					F		
ŧ	3	Main hall robber	AA123.1	85	7		•
	3	Sunken-featured building	AA136.140	20	1		-
	<b>4</b> A1	Fits	AA79	3	1		
			84 99	2	1		-
					Ki Kii	kiii Kuiim	
<b>j</b> .	t	?Post-hole	AA243	1	~ l		-
	1+2	fast-hole	WJ 61	1		] "	•
	3	Maan hail robber	AA123.1	85	t 4	5 .	-
			.8 ,10	10 5	- <b>1</b>		-
					·		
	4	Large extension foundations		7	- 3		-
			V&8≈(W119) AA151.2=(151)	3 11	-	3 1	•
	3	Lande extension robber	RI4	7,	- 7		
	ž	Small extension foundation	A0208	2	- i		•
	<u>.</u>	Small extension robber	AA296	61	1 58	12 -	Fil over Ri
	2	Softs	AA227	2	- 2		-
	crob1	Laver	AA187	ļ	~ 1	• .,	-
	211481	Laver	v 75	5	34 44		•
	orabl bossi	french	114	1	- 1	1 -	-
	3	Sunken-featured building	AA136, 140	20	1 11		u.
	3	FSA6t	116	1	1 -		
	<u> </u>	Pit	AA142	2	- 2		-
	2 · 4As	Laver	v7	1	- 1	۱ -	-
	37 <b>4A</b> 1	Fit	<b>0</b> 7.7	5	34 2	7 -	
	<b>4</b> 41		¥5 A484	÷	1 1		_
			20?	ĺ	· · · · · · · · · · · · · · · · · · ·		-
			204	ì	- j		-
			250	}	1		-

	4Ai	Gully	AA93	2	- 21	4	-
# den	otes notable ab	undance of Fragments.					
					С	H	
and	177	_e uef -µūj ė	M68	2	19 or	1?	-
H	2	Main half foundations	AA127.1	3	2	-	-
			12	2	2	~	-
	2	Mortar spread	AA16[#1[6])	9	3	-	-
			<b>≂</b> (177)	3	-	3	•
			± ( <u>+</u> ⊕61	l	1	•	-
	3	Main hall robber	AA123.1	98	<b>6</b> 0	27	Bill over Cil Bli over Cil
			.2	15	10	8	-
			.3	7	2	2	-
			.4	7	7	2	-
			.5	1	1	-	-
			. 6	2	2	1	-
			12	7	<u> </u>	1	-
			٠Đ	10	8	7	-
			, 9	l -	l .	-	Bill over Cir
			.19	5	4	2	Bill over Cil
	•	Debous from hall collapse"	46139	?	-	2	-
	- 4	Large extension foundation	V48=+W1[9)	3	Ż		*
			64151.2	11	3	8	-
	÷ :	Large extension cobbec	W1.4	7	3	-	-
			AA150	2	2	•	~
	3	Small extension robber	8A206	61	į	2	-
	3	Sunken-featured building	AA136, 140	26	12	7	-

					5	
ş	2	Mortar spread	AA161=(161)	8	t	u
	3	Main hall robber	AA123.1	85	17	-
			.2	15	l	•
			.3	7	1	•
					L	
L	2	Large extension foundation		7	5	-
			AA151.7	Н	2	-
	2	Mortan spread		1	1	-
					Q	
Q	i	Small extension foundation	AA298	2	1	-
	3	Seall extension robber	4A206	61	53	-
					fi	
FI	3	Small extension robber	AA206	61	20	Ki: over R:i
					F	
ţ	1.2	Post-holes	#88		ı	4
			<b>#</b> 90	ş	3	-
	λ	Small extension foundation	8020B	7	13	-
	3	Small extension robber	AA206	δĺ	5	-

					1	
.J	1/2	Fost-hole	AA159	1	1?	-
	2	Large extension foundation	V68=(N119) AP151.2=(159)	3 11	19 4	-
	3	Large extension robber	A/:150	2	1	-
	3	Main halî robber	AA123.4	7	l	•
					ň	
Ħ	2	Large extension foundation	V&B=(69) AA151.2	4 11	† 	
			HM EST. Z	11	•	-
					N	
N	2	targe extension foundation	¥68≈(70)	i	1	-
					g	
0	1/2	Post-hoie	W159	1	17	
	2	Large extension foundation	AA151.2	11	2	-
	2	Small extension foundation	AAZ08	2	1	-
					Ī	
T	2	Main hall foundations	AA127,12	2	1	••
	3	Main ball robber	AA123,1	85	1	
				- <del>-</del>	•	

#### (v) CONCLUSIONS FROM THE FABRIC TYPE ANALYSIS

When considering the fabric types found in Phase 2 and 3 contexts and apparently associated with the Middle Saxon stone buildings the possibility of contamination must be borne in mind. This is most likely to have occurred with fragments of mortar brought on to the site with stone robbed from Roman buildings. With the foundation courses generally lacking any mortar bonding fabric types found exclusively or predominantly in the foundations may well have been redeposited. It is quite possible, however, that a few fragments of types used in the superstructure may have intruded into the foundation, particularly their upper levels, and that this took place during destruction and robbing.

Four fabric types (Types A. B. F and K) must be interpreted as wall plaster because of the treatment of their surfaces. They can all be assigned to Phase 2 though they are largely found as residual material in Phase 3 contexts. Type A is confined to the area within, or immediately adjacent to, the main Phase 2 hall: if the similar St Peter's Street Type 3 mortar (Williams J H 1979, 13.1 is included the distribution would be extended to the vicinity of the eastern end of the minster church and further to the south-west of the western and of the main hall (ibid). This distribution with its concentration on the north western corner of the main hall, particularly the robber trench at that point (AA 123.1), leads to the conclusion that Type A  $\,$ plaster for the main hall and suggests that it was was a wall internal rather than external. The distribution of Type B is similar to that of Type A. The apparent spread of its distribution to the area adjacent to the minster church is probably due to its similarity to and confusion with Type 7, the internal wall plaster of that building. The majority of the Type B mortar should be regarded as a wall plaster for the main ball and this conclusion is strengthened by the nature of its direct relationship with Type A. Types A and B occur both as single and multiple coats, preserved in a single fragment. In some cases the underlying coat is complete with a limewash. Type A is found overlying Type B and in one case they abut with a single limewash. Where there are two coats it is not cossible to be sura of the time that elapsed between coats, but it seems likely that the underlying coat had not entirely set before application of the overlying coat. Certainly there is no evidence of deterioration of the underlying surface which might suggest repair or refurbishment. Types A and B are similar in all respects apart from the pink colouring of Type A. Though the body colour of Type A is helpful it should not be given undue weight since it is probably the result of the unintentional scorching of a batch or batches of limestone in the preparation of lime for the mix. The evenness of the colouring in any one fragment, but its variation between samples, together with the absence of discolumnation of the limewash, make any other interpretation unlikely. Given this assumption it is clear that Type A cannot be associated with any of the mixer residues since none have this colouring.

Type F is confined to the robber trench of the western section of the north wall of the main hall (AA123.1) and later

contexts at the western end of the main hall. Whilst distinctive it should be regarded as a variety of Type A overlying Type B.

Type K was only found in the western half of Trench AA, the southern part of Trench W, Trench X and Trench V. The correlation of Type K with St Peter's Street Types 9 and 10 extunds the distribution to the area immediately adjacent to the eastern and of the minster church. There is a marked concentration of Type K in the robber trench of the small extension and in later contexts adjacent to the small extension. It is interpreted as an internal wall plaster for the small extension. Its high lime content would make it unsuitable for an external use where it would be exposed to weathering. It is possible that it was also employed in the large extension. The occurrence of Type K in the foundations of the large extension is problematic. Given the nature of the foundations, of loose rubble with large interstices, the possibility that the fragments are intrusive cannot be discounted. If, however, the mortar is not intrusive or mis-identified it suggests at least the partial deterioration or destruction of the small extension before or during the construction of the large extension. The extremely low sand content, as against lime, of Type K makes it impossible to subject it to the method of thin section analysis employed in this study. It should be noted, however, that the three thin sections identifiable with Type K (TSMP 65), and St Peter's Street Types 1 and 10 (TSMP 30 and 31) with which it is correlated, all have inadequate sand content, whilst none of the mix residues have such a consistently low sand content. Type K cannot, therefore, be associated with any of the mix residues recovered. All four wall plasters (A, B, F and K) though of variable thickness, tend to have a flat undersurface where they have come away from the wall. This suggests either that the facing of the wall was of quite well dressed stone or that some levelling treatment had been given, such as the application of a mortar coat underneath.

Seven fabric types (C, H,  $L_{\star}$  P,  $\Omega_{\star}$  R and S) may be associated with the superstructure of the Phase 2 stone buildings. Types C and H are most frequent in the robber trenches of the main hall and are also found in adjacent contexts. Type C would appear to be most common at the western end but the distribution of Type H is more even. Types C and H were apparently used as bonding mortan; the form of Type H perhaps suggests the bonding of large stone blocks and that of Type C the bonding of a rubble core. This difference may, however, be the product of the relative hardness of the two. The presence of both types in the construction debris (AA161) of the main hall and of H in a collapsed portion of the wall of the main hall (AA169), as well as the occurrence of Type C underlying Type B wall plaster, reinforces this attribution. Whilst the presence of small quantities of Types C and H in the robber trenches of the extensions is not problematic their occurrence in the foundation trench of the large extension needs some explanation. Although they may be intrusive the presence of quite large quantities of Type H in the foundations closest to the north wall of the main hall (AA159.2) may indicate the partial demplition of that wall to allow the keving of the masonry, and the incorporation of the dehris in the new foundation. Alternatively they could be

derived from the destruction of a wall associated with the possible construction trench (AA183), which underlies the foundations of the extension at this point and which may be contemporary with the main hall.

Type S is confined to the robber trench of the north wall of the main hall, and the mortar spread (AA161) associated with the construction of that wall. Although it is clearly to be attributed to the main hall wall at this point, the small number of fragments together with its distinctive nature allow the possibility of it being part of the re-used Roman assemblage.

Type L is only found in the foundations of the large extension and the adjacent mortar spread (AAi61). It was apparently a line slurry poured over the foundations of the large extension, though it is difficult to see it as a serious attempt either at bonding the foundations or at producing a level surface.

Types Q and R are both clearly bonding mortars. Their distribution, being restricted to the robber of the small extension, except for one fragment in its foundations, and the occurrence of Type R underlying Type K, suggests that they represent bonding for the superstructure of that building.

Type P is clearly a bonding mortar but, though its distribution suggests a relationship to the walls of the small extension, this interpretation is not secure.

The occurrence and nature of each of the remaining five fabric types (Types J, M, N, O and T) suggest that they are associated with re-used material, most probably from the robbing of Roman structures. Type J is rare and distinctive: this, and the fact that it is most common in the foundations of the large extension, suggest that it is part of the re-used assemblage.

The form of Type M perhaps indicates flaking from dressed stone after abrasion of the surface. This and its presence in the large extension foundations make its derivation from robber masonry likely.

Only one fragment of Type N was recorded, this in the large extension foundations as a discrete block. Its partial coating with Type L reinforces the probability of its re-use.

The occurrence of Type O in the foundations of both the small and large extensions as discrete blocks bonding large fragments of stone and Roman brick and tile implies that it is Roman mortar.

Type T is not a rigidly defined fabric type but simply that to which typical opus signinum, almost certainly of Roman origin, was assigned.

The quality of the material available for study from the St Peter's Street and St Peter's Gardens excavations and the many techniques evaluated during the study allow observations to be made regarding future work in montar analysis. A fabric type series should be produced by examination in hand sample since this allows groups to be established. Further groupings of samples from closed archaeological contexts such as mixer residues may be possible. These groups must be tested, and if found to be valid may be compared to each other, using the following criteria:

(i) grain size

(ii) grain roundness

- (iii) mineralogy of grains
- (iv) composition of inclusions
- (v) size of inclusions
- (vi) textural relationships

It is suggested that if significant results are to be achieved a combination of these characteristics should be studied, not merely grain size. Statistical methods should be applied to test the validity of individual groups and their compatibility to each other. These different characteristics may be best evaluated by different techniques: (i) by sieving of an adequately sized sample with the interval between the successive mesh sizes being as small as practicable; (ii) and (iii) by examination in thin section; (iv), (v) and (vi) by study of both hand samples and thin section.
For /ii) to (vi) the data will remain qualitative unless a

For (ii) to (vi) the data will remain qualitative unless a sufficient number of samples are investigated. Furthermore, the greater the accuracy of the on-site recording of the points at which samples are taken the more meaningful will be any analysis of the distribution of the fabric types of residual mortar.

It must be appreciated that work of the type outlined above is labour-intensive. It will be necessary, therefore, in deciding whether to undertake such a study, to consider carefully whether the anticipated results are likely to justify the expenditure.

### (vi) COMPARISON OF FABRIC TYPES TO MIX RESIDUES IN THIN SECTION

Since the designation of fabric types had not been the original intention in the selection of samples for thin sectioning it was necessary to examine the samples from which thin sections were cut and where possible to assign them to a fabric type. This was made more difficult by the small size of some of the fragments used and the absence of an unimpregnated residue for some samples. A further seven sections were cut from samples selected of two of the major fabric types. Using the extra coctions and by regrouping some of the original data it was possible to produce groups for one of the St Peter's Street type series and five of the St Peter's Gardens fabric types. The data from the type groups thus produced were compared to the mix residues. Though the results were more promising than with the contextual groups or single samples, the intra-group variability was still too large, and the number of samples within each group too small, to allow any firm affinity to be demonstrated between any two groups. When re-examining the type series compiled for St Peter's Street (Williams J H 1979, 131-3) it became apparent that several of the types were more broadly defined than those in the current study. There is the possibility therefore that the thin sections cut from samples of the St Peter's Street type series may not belong to the fabric type with which the bulk of the type is correlated in this report.

the only conclusion that may be drawn from the comparison of fabric types to mix residues in their section is that Type K, for which there are three sections when those of Types 9 and 10 of the St Peter's Street type series are included, in all of which the sand content is too low to allow analysis, cannot be

associated with any of the mix residues none of which exhibit such a consistently low sand content. The attribute of sand content may, however, be subject to alteration between used mortar and residue, by, for example, settling out of the sand fraction.

In general, when viewing the analyses without treating the data statistically, it may be seen that the majority of samples from contexts associated with the middle Saxon stone buildings are comparable in their mineralogy to, and fall within the same range of sand-size and roundness distributions, as those from the mix residues.

#### (vii) CONTENTS OF THE ARCHIVE

- 1) Mortar samples
- Remaining portions of samples selected for thin sectioning.
- 3) Thin sections
- 4) Fabric type series.
- 5) Catalogues for 1) to 4).
- 6) Thin section analyses.
- 7) Graphic plots of 6).
- 8) Statistical treatment of 7).
- 9) Fabric type incidence by context.
- 10) Correlation of the fabric type series with the St Peter's Street fabric type series.

## THE GLASS by G E Dakley and J R Hunter

(Fig 36: nos 1-9; not illa no 10)

- Bead, John Hunter writes: Annular, decorated with opaque white marvered wave pattern round the edge.
   Devitrified opaque. Diama c. 14mm; H: c. 6mm; Diam of perforation: c. 6mm. AA93, Phase 4Ai.
- Pillar-moulded bowl: tiny unweathered blue-green fragment from end of rib, polished exterior. Ist century AD (Harden and Price 1971, 320-9). (Y59)=55, Phase 3, SF8Li5.
- Bowl? Blue-green, inclusions within glass, dull polished surfaces, slight iridescence on exterior. Probably Roman but lacks decoration. AA79, Phase 4Ai, SFGL28.
- 4. Saxon vessels unweathered thin (imm) and bubbly pale blue-green glass with marvered opaque yellow horizontal trails. Edges of tiny fragment possibly trimmed for re-use in window? John Hunter writess 'It could belong to a number of forms but the fragment is too small to make proper identification possible. Yellow marvering, however, is very rare before about AD 700 and hence it is a reasonable guess that it belongs to the 8th to 10th centuries'. (Y136)=130, Phase 3, SFGL16.
- 5. Vessel with applied horizontal trails, weathered opaque and devitrified; form uncertain but stratified late Saxon. (AA387)=123.8, Phase 3, SFGL31.
- Jug or flask neck with applied horizontal trails, now opaque and devitrified on surfaces but core is amber. AA57, Phase 4A, SFGL27.
- Tubular neck of flask, perhaps once pale amber but now opaque and devitrified. Cf medieval ampulla (Harden 1975, 35). Diam: 18mm. AA98, Phase 4A11, SFGL29.
- 8. Urinal: pale blue-green, rim and base more decayed than tiny fragments of thin-walled body (0.3 to 0.4mm thick), all most likely from same vessel though not conjoining. Tentative profile drawn based on limited reconstruction. Base has slight kick and vessel may have been capable of standing. Rim diam: c. 125mm. 255.3 base, neck and body: 255.7 rim; 255.8 body. Phase 4Aii, SFGL22-26 inclusive.
- Painted opaque window fragment, Medieval, 3.5mm thick. AA98, Phase 4Aii, SFGL39.
- Opaque window fragment, no paint visible, grozed edge. Medieval. 1.6mm thick. Y31, Phase 4Aii, SFGL14.

Post-medieval glass was found in the following Phase 4Bii contexts:

17th or 18th century window - (W2O)=V1, SFGL11.
18th century phial in blue-green glass - W1O, SFGL6.
18th or 19th century window - Y2, ?(Y23)=9; SFGL19,
12.
19th century vessel sherds - W1O, (Y21)=9, Z2, SFGL5,
12, 20.

Post medieval window glass contaminated the following contexts: (W19)=10, (W126)=V87, AA544.

Uncertain possible contamination (not identified): W32, SFGL9.

### THE CLAY SPINDLEWHORL by Varian Denham

A fragment of a fired clay spindlewhorl was found during the initial cleaning of the site in Trench Y.

The spindlewhorl is circular, measuring c.60mm in diameter, and of bun-shaped profile. It is not possible to ascertain the perforation diameter, or the maximum depth of the whorl. The exterior surfaces range from dark grey (7.5YR 4/0) to brown (7.5YR 5/2) and the core is reddish brown (5YR 4/3). The presence of burnt and scoted areas suggests that it was fired by an open fire, or possibly in a clamp kiln with other vessels.

The clay matrix is iron-rich and contains abundant minute to fine angular ferruginous and opaque quartz, moderate angular ironstone, rare medium angular calcareous inclusions, rare rounded red and black iron ore, rare minute mica platelets, and rare burnt out organic inclusions. The mineral suite strongly reflects the Northamptonshire Ironstone and Vical production is probable.

The spindlewhorl is likely to be of Saxon ate. Affinities with pottery fabric SIC ((M)2/24-5) suggest production in the early or middle Saxon period although a later date cannot be ruled out given the unchanging forms of spindlewhorls, the fragmentary nature of this piece, and its unstratified context.

### THE CLAY PIPES by W R G Moore

A small number of clay pipe fragments were found in various contexts. In total there are 24 stem pieces and 3 bowls.

Undecorated Stem Fragments

The few stem fragments that were found can provide only a general indication of date. Those with a wide stem bore (8/64", 7/64") are probably of the seventeenth or earlier eightmenth century and those with narrow stem bores (5/64", 4/64") are probably of eightmenth or nineteenth century date. The number of examples, if exceeding one, is given below in brackets following each context reference.

Wide bores: Phase 4Bii: (W1) = V1; Y9; Z29(2).

+ : W+(2)

Narrow bores: Phase 4Bii: Y2(6); Y9; (29) = V1(2); 229, (246) =

12.

+ : W+(3): Z+.

### The Bowls

The three bowls are classified using Oswald's general typology (Oswald 1975, 37-41):

Approximate Date	Type	Quantity	Context
c. 1 <b>64</b> 0-70	G17	1	W+
c. 1690-1710	617	2	W+: Y+

# THE TEXTILE by E Crowfoot

ΤI

Fragment of textile, 32 x 40mm as folded; flax, spinning Z/Z, fairly even, weave tabby, close and even, count 19/21 thread per cm. Respectable quality linen, suitable for shirts, caps, or fine sheeting; no stitching.

The Z spin is normal in European linen. This fragment is of better quality than those found in Marefair (Crowfoot 1979, 76), but very similar to recently found 14-15th century fragments from the City of London (Pritchard 1982, 207), AA568, Phase 4Aii, SFT1.

### THE WORKED SONE AND ANTLER by Mary Harman and Michael Shaw

Figs 37, (M) 21

Antler (WB1-74; see also WB75, 80, 81, 83, 85, 95)

Seventy-four fragments of antier waste were discovered during the excavation. Fifty-five of the fragments were sawn. The antier also showed evidence of having been cut, trimmed by whittling and broken off. All the identifiable antier was of red deer. One large crown, five beam fragments, five bases with beam and times sawn off and 27 time fragments were recovered. All the bases had been cast. Thirty-five of the fragments were from late Saxon contexts and 28 from early medieval deposits; the remainder were from later contexts but were obviously residual.

The evidence from St Peter's Gardens can be combined with that from St Peter's Street (Dakley 1979, 308) - where 31 antier waste fragments were found, 11 in late Saxon deposits and 20 in early medieval contexts - to suggest an antler working industry on the sites. The distribution of antler waste from both sites is plotted by phase on Fig (M)21. Two concentrations can be seen - one in trench Y and the Other at the SW of trench AA and in the NW corner of the St Peter's Street excavations (House 1), The trench Y assemblage can be identified as belonging to the late Saxon period for nine of the 12 fragments are from deposits of this date; the others are from later contexts and are almost certainly residual. The date of the trench AA/House 1 assemblage is less obvious for although 22 of the antler fragments come from late Saxon contexts, 33 are from marly medieval deposits. The area was, however, heavily pitted in the medieval period and it seems likely that all the antler in the medieval levels was in fact residual, and that the industry here was also late Saxon in date. Otherwise antler-working starting in the late Saxon period and continuing, even if intermittently, until at least the 13th century would be implied. Two billets, one of antler (WB95) and one of bone (WB96) - blanks for the production of comb tooth segments - were also recovered from the trench AA/House 1 complex. It is impossible to say, however, whether the antler-working industry was restricted to comb making or whether other articles were also being produced.

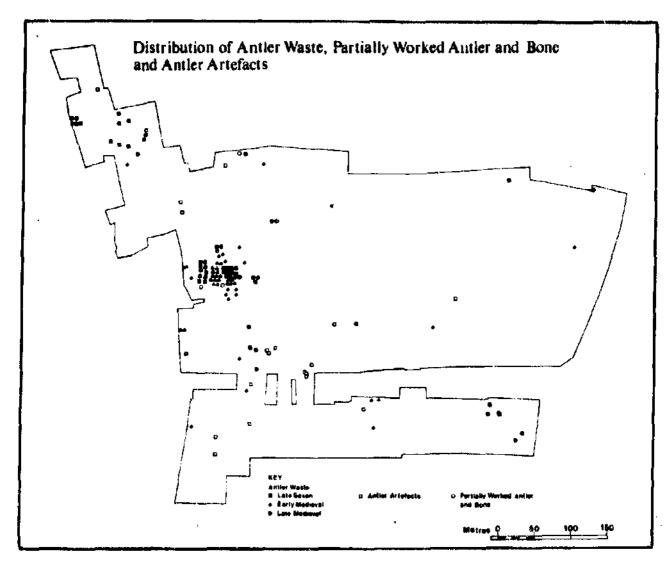
Antler objects from the present site comprised an incomplete comb (WB75), two broken tooth segments from combs (WB80, 81) a bodkin/needle (WB83) and a pin fragment (WB85). All the objects came from deposits of Saxon date but only the last was discovered in an area where antler waste was concentrated.

WB1

Very large crown; sawn off beam but mostly broken off at sawn end; at least 6 times. Max diam across sawn base: c. 80mm. AA523, Phase 3, SFWB81.

WB2

Large antier: beam sawn off just above coronet; three times, two broken off near beam, one c. 120mm from beam with a cut trimming part of side of time off; the beam has a swelling just above the saw cut; the long time may be the beam continuing and the



Fag (H)21

others are probably brow and bay times. (AA68) =  $\pm$ , SFWB79.

- WB3 Large cast antier; base, coronet and brow time with beam sawn off. Max diam cast area (within coronet): 55.7mm; brow time L: 290mm. Y135, Phase 3, SFWB6.
- WB4 Part of beam; sawn off above and below a tine, tine also sawn off. L: 66mm; (Y141) = 55, Phase 3, SFWB5.
- WB5 Part of beam from large antler with three broken tines; main part sawn across. Diam of sawn beam: 52mm. AA29, Phase 3, SFWB73.
- WB6 Part of beam; sawn off just below a fork; both tines sawn and broken off. W: 90mm. AA70, Phase 3. SFWB54.
- WB7 Fragment from a fork of beam; sawn across below and above the fork. L: 74mm. AA71, Phase 4A1, SFWB68.
- WB8

  Base, cast; beam and brow time sawn off by two cuts just above coronet, one slightly obliquely to plane of coronet. Max diam cast area (within coronet): 42mm. AA71, Phase 4A1, WB56.
- WB9

  Base, cast; beam and brow time sawn off, beam sawn obliquely to coronet, some of which has been removed or broken off. Max diam cast area (within coronet): 58 mm. AA71, Phase 4A', SFWB75.
- WB10 Base, cast; beam, brow and bay tines sawn off. Max diam cast area (within coronet): 50.7mm. AA134, Phase 4Ai, SFWB18.
- WB11 Base, cast; whole antier sawn off just above coronet, slightly obliquely to plane of coronet; most of coronet trimmed off. Max diam cast area (within coronet): c. 71mm. AA134, Phase 4Ai, SFWB18.
- WB12 Base, cast; whole antier sawn off just above, but slightly obliquely to, coronat which has been entirely removed; much of the outside surface of the antier has been trimmed off around the edges; a poor wedge shape. AA134, Phase 4A1, SFWB19.
- WB13 Tip of time; sawn. L: 30mm. (Y52) = 39, Phase 3, SFWP48.
- WB14 Tine; sown off. L: 103mm. (Y128) = 39, Phase 3, SFWB4.
- WB15 Tine: broken off. L: 87mm. Y55, Phase 3, SFWB46.
- WB16 Fragment from near end of time; outer surface trimmed slightly so that it is facetted. (Y171) =

- 116, Phase 3, SFWB52.
- WB17 Piece of time; sawn off just where it springs from beam, end broken. L: 114mm. AA70, Phase 3, SFWB54.
- WB18 Time; sawn and broken off. L: 42mm. AA70, Phase 3, SFWB54.
- WB19 Time; sawn off, L: B5mm. AA70, Phase 3, SFWB54.
- WB20 Tine: broken. L: 172mm. (AA135) = 123.1, Phase 3, SFWB91.
- WB21 Large time; broken off beam, a few cuts at broken end; probably a brow time. L: 263mm. AA11, Phase 4Ai, SFWB70.
- WB22 Time with part of beam attached; sawn off across beam, tip broken. L: 179mm. AA134, Phase 4A1, SFWB19.
- WB23 Tine; sawn and broken off. L: 81mm. AA94, Phase 4Ai, SFWB60.
- WB24 Time: tip sawn off. L: 45mm. AA134, Phase 4Ai, 9FWB19.
- WB25 Tine, sawn off, tip broken off, L: 92mm. AA134, Phase 4Ai, SFWB19.
- WB26 Tine; sawn off, tip broken off. L: 68mm. AA134, Phase 4Ai, SFWB19.
- WB27 Tine; sawn off, tip broken off. L: 135mm. AA134, Phase 4Ai, SFWB19.
- WB29 Tine; sawn off, tip broken off. L: 52mm. AA134, Phase 4A1. BFWB19.
- WB29 Tines sawn off. L. 122mm. AA134, Phase 4Ai, SFWB19.
- WB30 Tine; sawn off. L: 128mm. AA134, Phase 4Ai, 9FWB19.
- WB31 Part of small stubby time; one end broken. L: 100mm. AA134, Phase 4Ai, SFWB19.
- WB32 Part of time; one end trimmed and blunted by wear. other end broken; probably a brow time. L: 123mm. AA134, Phase 4Ai, SFWB17.
- WB33 Part of time; both ends broken. L: 109mm. AA134, Phase 4Ai. SFWB19.
- W934 Tine; with swelling on length, sawn off. L: 93mm. AA134, Phase 4Ai, SFWBBO.

WB35	Part o	of tine;	both	ends	broken.	L:	56mm.	AA204,
	Phase	4Ai, Si	WB71.					

- WB36 Tine; sawn off. L: 90mm. AA57, Phase 4A, SFWB50.
- WB37 Tine; sawn off, tip broken. AA57, Phase 4A, SFWB77.
- WB38 Large time; broken off beam, some whittling at broken end; probably a brow time. L: 212mm. Y31, Phase 4Aii, SFWB45.
- WB39 Tine; sawn off. L: 57mm. Y7, Phase 4Bii, SFWB43.
- WB40 Tine; sawn and broken off, tip broken. L: 85mm. (AA68) = +, SFWB66.
- WB41 Length from beam or possibly large time; broken, one end whittled. L: 101mm. AA70, Phase 3, SFWB54.
- WB42 Fragment from beam or large time; one end sawn. L: 52mm. (Y175) = 55, Phase 3, SFWB51.
- WB43 Fragment from a beam or time; sawn at both ends. L: 59mm. W18, Phase 4Ai, SFWB69.
- WB44 Fragment from beam or large time; one end sawn. L: 115mm. (W6)  $\approx$  Vi, Phase 4Bii, SFWB76.
- WB45 Fragment broken from length of beam or time; both ends sawn. Li 57mm. (AA92) = +, BFWB72.
- WB46 Length of antler; both ends sawn. L: 42mm. (Y52) = 39, Phase 3, SFWB48.
- WB47 Fragment of inner, cancellous antler; ?one end sawn. Li 24mm.(Y52) = 39, Phase 3, SFWD48.
- WB48 Length of antler; ends sawn. L: 55mm. (Y52) = 39. Phase 3, 9FWB4B.
- W849 Fragment; both ends sawn. Li 57mm. (Y59)  $\approx$  55, Phase 3, SFWB53.
- WB50 Length of outer surface; cut at both ends. L: 58mm. Y158, Phase 3, SFWB49.
- WB51 Shaving; whittled off fragment. Li 35mm. AA70, Phase 3, SFWB54.
- WB52 Shaving; whittled off fragment. L: 35mm. AA70, Phase 3, SFWB54.
- WB53 Fragment; one end sawn across. L: 45mm. AA70, Phase 3, 8FWB54.

- WB54 Fragment; one end sawn across. L: 30mm. AA70, Phase 3, SFWB54.
- WB55 Fragment, (AA219) = 206, Phase 3, 9FWBB2.
- WB56 Fragment, sawn across. L: 28mm. (AA219) = 206, Phase 3, SFWB83.
- WB57 Fragment, sawn across. L: 41mm. (AA219) = 206, Phase 3, 9FWB84.
- WB5B Fragment, sawn across. L: 39mm (AA219) = 206, Phase 3, SFWBB5,
- WB59 Fragment, sawn across. L: 42mm. (AA219) = 206, Phase 3, SFWBB6.
- WB60 Fragment, sawn across. L: 27mm. (AA219) = 206, Phase 3, SFWB67.
- WB61 Fragment, sawn across. L: 48mm. (AA219) = 206, Phase 3, SFWB68.
- WB62 Fragment, flake from whittling antler. (AA219) = 206, Phase 3, SFWB89.
- WB63 Fragment; one end sawn across. L: 34mm. AA224, prob Phase 3, SFWB63.
- WB64 Fragment; one end sawn across. L: 35mm. AA224, prob Phase 3, 9FWB63.
- WB65 Fragment, L: 48mm. (AA361) = 344, Phase 4A1, (AA364.1) = 123.2, Phase 3, 9FWB90.
- WB66 Fragment; one end sawn across. L: 50mm. AA84, Phase 4Ai, SFWB65.
- WB67 Fragment, one end sawn across. Li 38mm, AA97, Phase 4Ai, SFWB62.
- WB68 fragment; one end sawn across. L: 45mm. AA203, Phase 4Ai, SFWB74.
- WB69 Fragment; one end sawn across. L: 33mm. AA203, Phase 4Ai, SFWB74.
- WB70 Fragment; one end sawn across. L: 43mm. AA57, Phase 4A, SFWB50.
- WB71 Fragment from curve of beam and time junction; one end mawn. L: 42mm. (AA92) = +, SFWB78.
- WB72 Small, broken fragment. L: 30mm. AA108, Phase 4Ai, SFWB61.

WB73 Small, broken fragment. L: 21mm. (AA92) = +, SFWB78.

WB74 Small, broken fragment. L: 28mm. (AA92) = +, SFWB78.

### Combs (W875-81)

Two incomplete combs were found. One (WB75), a double-sided composite comb probably of antler, was of early Saxon date; similar combs are illustrated from Sutton Courtenay (Leeds 1923, Fig 1, D, E and 1). The other (WB76) is a fragment of a finely worked double-sided simple comb of ivory; it was unstratified but such combs were made throughout the medieval period and later (Oakley 1979, 310; WB44, 45) Fragments of connecting plates (WB77-79) and teeth (WB80, 81) from composite combs were also recovered.

WB75

Incomplete double-sided composite comb, probably of antier; connecting plates of recto-oval section; double incised lines run lengthwise along top and bottom of both plates; cuts for teeth deeply incised (up to 4mm) into plate; six rivets at a distance of 20-30mm apart; four tooth segments survive, length varying 15-19mm; one vertical end segment shows teeth graduated towards edge; teeth fine (8 in 10mm) on one side, coarse on other (5 in 10mm). L: 142mm.

760, Phase 1, SFWB13.

WB76

Fragment of a finely worked double-sided simple comb of ivory; one end of comb has vertical termination, the other end is broken; decorative incised lines on each side of solid zone run along length of cumb; teeth medium (& in 10mm) along one side, very coarse (3 in 10mm) along other; incised line at top of rows of teeth on both sides presumably marked out line to which teeth should be cut. L: 29mm. +. 9FWB10.

Fragment of a bone plate, probably from a comb; convex section, made from a piece of long bone shaft of a large animal, cattle/horse size; decoration of lattice design and double ring and dot; one complete and one partial rivet hole set 35mm apart; one end cut slightly obliquely, other end broken. L: 49mm. AA+, SFWB21.

Fragment of a connecting plate from a double-sided composite comb, made from a piece of split ?cattle rib; convex section, one end neatly cut across at a slightly oblique angle, other end broken; cut marks on edges show teeth on one side fine (8 in 10mm), on other side coarse (2~2.5 in 10mm); one definite rivet hole and probably edge of another at broken end 54mm away. L: 78mm, YSS, Phase 3, SFWB3.

Three fragments, two joining, of plate made from a flat bone, possibly part of a cattle scapula blade;

**WB77** 

WB78

WB79

of rectange, ar section; one wide face in polished and has crude incused lines; ?cut marks along one edge; probably fragments from a connecting plate of a single-sided composite bone comb. L (of two joining fragments); 51.3mm. Y55, Phase 3, SFWB2.

WB80

Fragment of a tooth segment from a composite ?double-sided comb, probably antler; two teeth only. L: 31mm. W14, Phase 3, SFWB12.

WBB1

Tooth from a comb, probably antler. L: 21mm. W14, Phase 3, SFWB11.

### Tools, Pins and Bobbins/Toggles (WBB2-90)

The three tools, all pointed, comprised a double-ended tool (WBB2), a probable bookin or needle (WBB3) and one of uncertain purpose (WBB4). The double-ended tool is an example, of greater than normal length, of a type commonly found in Northampton (cf Dakiey 1979, 312-4: WB67-79) and usually said to be associated with weaving.

The four pin fragments included one of antler (9885) and two of pig fibulae (9887, 88; of Dakley 1979, 310; 9847-51).

Two bobbins or toggles (WBB9, 90) made from pig metapodials are of a type frequently found on Northampton sites (of Dakley 1979, 313-4, WBB0-86).

WBB2

Polished double-ended tool made from long bone shaft of a large animal; one end spatulate, other end pointed. L: 160mm.  $(Y52) \approx 39$ , Phase 3, SFWB1, 33.

WB63

Bodkin/needle made from long narrow time; end artificially pointed and lower part trimmed to a square shape; the top is pierced by an hour-glass hole. L: 93.3mm. AA7, Phase 3, SFWB64.

WB84

Incomplete large bone tool, made from piece of long bone shaft from a large animal (cattle/horse size); top is cut flat, pierced by an hour-glass hole and has two grooves 5mm and 10mm from end; decoration of roughly incised opposed oblique lines below lower groove for 33mm, remainder of shaft undecorated; shaft circular and tapering towards broken end. Li 141mm. AA +, SFWB16.

WB85

Pin fragment, made of antler; one end cut and smoothed to make a point, other end broken. L: 96mm. Y55, Phase 3, SFWB59/(Y70) = V87, Phase 1. Three joining fragments were recovered. Two were from Y55 and one, possibly intrusive, was from (Y70) - the layer below.

WB86

Roughly worked ?pin shaft, both ends broken; shaft facetted with whittle marks, highly polished; ?long bone shaft fragment from a large animal. (W40) = 12, Phase 3, SFWB35.

WB87

Pin made from pig fibula; articular end not worked, shaft whittled so that it tapers and is slightly smoothed, tip broken off. L (surviving): 101mm. AA79, Phase 4A1, SFWB40.

**WB88** 

Shaft of ?pin made from pig fibula; broken at both ends; polished; ?slightly whittled. I: 39mm. AA94, Phase 4Ai, SFWB39.

W389

Bone bobbin or toggle made from pig metapodial; perforated through shaft from front to back, hole 5mm in diameter; shaft and one end trimmed with a knife, shaft polished. L: 57mm. W13, Phase 3, SFWB25.

WB90

Bone bobbin or toggle made from pig metapodial; perforated through shaft from front to back, hole 5mm in diameter; shaft and both ends possibly trimmed with a knife. L: 50mm. (Y128) = 39, Phase 3, WB31.

Handles and Miscellaneous Objects (WB91-3)

WB91 is a decorated bone tube, probably a handle. WB92 is a gaming piece of a type usually regarded as a draughtsman. A similar though smaller example was found on St Peter's Street (Dakley 1979, 317-8; WB99). WB93 is a bone stylus with tip of copper alloy. A similar one, discovered at Northampton Castle, is on display at Northampton Museum and two others are published as belonging to the Saxon monastery at Whitby (Peers and Radford 1943, 71, nos 108-9) though they are not definitely Saxon (W/lson 1964, 63). A bronze stylus from St Peter's Street was suggested as being of middle Saxon, possibly 8th century, date (Dakley 1979, 260, Cu100).

WB91

Bone tube, probably a handle, probably made from sheep R fibia shaft, distal half; neatly cut at distal end; other end is broken and appears to have had two grooves Amm apart cut right round it after the tube had been decorated; decoration consists of two spiral lines c. 5-8mm apart, the gap between the two filled with horizontal lines 1-1.5mm apart. L: 83mm; Diam (of hole): 7mm. (AA75) = 74, Phase 3, SFWB15.

WB92

Gaming piece/draughtsman, made from piece of cattle mandible — angle of ramus; flat, polished upper surface decorated with two circles of single ring and dot decoration, the inner ring pierced by a central hole 10mm in diameter; also two lightly incised circular lines; lower side polished but undecorated. Similar, though smaller, example discovered on St Peter's Street (Cakley 1979, 317-8, WB99). Diam: 48mm; Th: 4-9mm. AA97, Phase 4Af, SFWB17.

WB93

Bone stylus, made from long bone shaft fragment from large unimal (cattle/horse size); spherical head set into a collar of two ridges, shaft undecorated; tip of copper alloy 8mm in length, 4mm of which is inserted into bone; highly polished. L: 75mm. AA95, Phase 4Aii, WB47.

### Unfinished and Roughly Worked Objects (WB94-104)

A partially worked horse left metacarpal (WB94) - probably a roughout for a bone skate - and two billets, one of antler (WB95) and one of bone (WB96) - blanks for the production of tooth segments of composite combs, are evidence of bone and antler-working on the site (see above). The remaining bones (WB97-104) are roughly worked, often with holes pierced through.

WB94 Horse L metacarpal; the anterior surface is slightly worn so that the cancellous bone is just exposed at the proximal and distal ends and the worn surface is lightly polished but there is no other sign of working; probably roughout for a skate. AA29, Phase

3, SFW858.

WB95 Rectangular billet of cut antler; blank for tooth segment of a composite comb. L: 26mm; W: 50mm; Th:

2-3mm. (AA219) = AA206, Phase 3, SFWB29.

WB96 Rectangular billet made from long bone shaft

fragment from large animal; one surface is smoothed, ?planed; the edges are neatly cut though not square; blank for a tooth segment of a composite comb. L: 15mm; W: 56mm; Th: 2-3mm. AAI34, Phase 4A, SFWB41.

WB97 Sheep immature L metacarpal, distal epiphysis not

fused and missing; a circular hole, 7mm in diameter,

is cut into the medial side of the proximal articular surface. (AAS91)  $\approx$  545, Phase 3, SFWB37.

WB98 Sheep, distal half of metacarpal, distal epiphysis

not fused and missing; the medial portion of both condyle diaphyses has been cut away making a hole.

L: 68mm. AA204, Phase 4Ai, SFWB38.

WB99 Cattle, part proximal end of metatarsal; the

articular surface has been neally cut away to make a circular hole, the margin of bone left is c. 7mm

thick. L: 54mm. AA203, Phase 4Ai, SFWB42.

WB100 Sheep L radius, proximal end and shaft: sub-circular

hole c. 6mm diameter cut into proximal end on anterior aspect, just below articular surface; two other small holes (?broken) at proximal end. AA204,

Phase 4A1, SFWB67.

WB101 Goose L radius shaft; proximal and distal ends cut

off fairly neatly; parallel lines on areas of shaft suggest light shaving of shaft in places. AA +, SFWB30.

- WB102 Fragment of ?bird bone shaft, from bird of goose size. The shaft is cut across to form a tube. A cut close to the cut end could be decoration. L: 27mm. (Y59) = 55. Phase 3, WB32.
- WB103 Sheep R metacarpal, proximal half, with circular hole, 8mm in diameter, cut through lengthwise; the shaft is broken at its mid-point. L: 69mm. (Y119) = 99, Phase 4Ai, SFWB34.
- WB104 Cattle femur, L part shaft; distal end cut off straight across, cancellous bone cut away to make an oval hole on long axis; the hole is slightly funnelled. L: 108mm. AA117, Phase 4Ai, SFWB36.

Table (M)18: Numbers of Bones from Different Parts of the Body Found in Disturbed Deposits, Listed according to Age Group

Bone	Adult over 20	c. 10 - 20	Child under 10 years
Skull			4
Mandible	1		1
Vertebra	3	1	1
Scapula	i	i	
Clavic1e	.3		
Humerus	1	1	1
Radius	1		3
Ulna			3
Metacarpal	4		
Pelvis	6		5
Femur	2		17
fibia	6	3	12
Fibula	2	2	12
Astragalus	2	₹	
Calcaneum	2	1	2
Metatarsal	2	1	14

Table (M)19 Phase 1

	Cattle				Shee	þ	Pig		
	L.		R	L	'	R	L	•	R
Skuli	2		3	4	1	4	6		1
Maxilla				1					1
Mandible	4		2	6	1	9	3		3
Tooth		5			36			10	
Vertebra		19			15			11	
Rib		134			136			2	
Scapula	7	5	1	4	4	4	5	1	7
Humerus	2	5	3	12		11	3		5
Radius + ulna		1	5	7	4	13	3	1	3
Metacarpal		2	1	2	2	2	1	5	1
Pelvis	2	2	2	6	1	6	4		7
Femur	5	13	1	3	28	2	1	5	1
Tibia	4	1	3	14	8	20	2		4
Astragalus	2		3	1					i
Calcaneum	2						1		
Scaphn-cubeid									
Metatarsa1		1			3			4	2
Phalanx 1			1	1		1	1		2 3
Phalanx 2	2		1						
Phalanx 3	,		3			1			
Total		91			185	- +- + uu na u		81	
(ex. T, V, R)		25%		<b>-</b>	52%	* PM 100 and 100 are a		23%	

1 Ram

Also: Horse: skull: L, tooth: 2, ulna: R, femur: L, patella: R, phalanx 1: 1.
Hare: radius: R.

?Hare: humerus: L.

Table (M)20 Phase 1/2

	Cattle			Sheep			Pig		
	L.		R	ł_	·	R	Ł	•	R
Skull						1			
Maxilla									
Mandible				2		2			
Tooth		1			3				
Vertebra		4			1				
Rib		16			<b>35</b>				
Scapula			1					1	
Humerus	1		1	1	1	3			1
Radius + ulna	•			2		2			1
Metacarpal									
Pelvis			1						
Femur		1			3	1			
Tibia	1			3		3			
Astragalus	i								
Calcaneum						1			
Scapho-cuboid									
Metatersel					3				1
Phalanx 1			2						1
Phalanx 2	1		1						
Phalanx 3	1		1						
Total		13			28			5	
(ex. T, V, R)		28%			61%			11%	

Also: Horse: phalanx 1: 1. PHare: femur: 1.

Table (M)21 Phase 2

	Cattle			Sheep			Pig		
	L		R	L		R	L	•	R
Skul l	1	3	1	.3		1	3		2
Maxilla				2		2 3	3		1
Mandible			1	9		3	6		5
Tooth		6			20			4	
Ventebra		19			31			5	
Rib		160			280			5 3	
Scapula	5	6	6	9	3	19	4	1	5
Humerus	4	3	4	12	3	11	2		ī
Radius + ulna	3	2	4	13	2	12			
Metacarpal		4	1		2	1	4		2
Pelvis	5	2	6	9		9	1		4
Femur	1	11	5	9	45	7	3	3	4 2 2
Tibia	3		6	3 <b>1</b>	9	32	4		2
Astragalus	1		2	2			2		
Calcangum	1		1			2	2		2
Scapho-cuboid									
Metatarsal		1	1	1	3	1			2
Phalanx 1	4		1	2			1		
Phalanx 2			2	1			2		
Phalanx 3	1		1						1
Total		103			<b>29</b> 0			70	
(ex. T, V, R)		22%			63%			15%	

Also: Horse: tooth: 1, scapula: L, radius: shaft, femur: L, phalanx 2: 1.

Goat: horn core: 1, radius: R.

?Red deer: ulna: R.

pelvis: R. Harei

Table (M)22 Phase 3

	Cattle '				Shee	p	Pig		
	L		R	L	·	R	L		R
Skull	28	11	15	19	4	35	8	1	14
Maxilia	6		5	5		8	12		15
Mandible	22		25	32		21	22		14
Tooth		47			67			40	
Vertebra		111			143			15	
Rib		458			568				
Scapula	32	44	30	33	9	32	16	12	12
Humerus	21	3	25	41	2	27	26		18
Radius + ulna	18	1	34	44	8	40	7	3	7
Metacarpal	13	11	16	15	13	19	10		6
Pelvis	30		22	32		30	18		14
Femur	20	36	18	11	46	19	13	12	17
Tibia	24	2	<b>38</b>	62	15	50	11		12
Astragalus	13		13	5		7	3		1
Calcaneum	10		11	13		7	5		2
Scapho-cuboid	3		3	2		1			
Metatarsa1	10	20	12	20	16	29	1 1	2	11
Phalanx 1	23		24	5		5	6		5
Phalanx 2	15		9	1		2			5 3
Phalanx 3	7		10						
Total		733		T	785	<u>-</u>		345	<del></del>
(ex. T. V. R)		39%			42%			19%	

Also: Horse: skull: 1, maxilla: R, mandible: R, tooth: 3, vertebra: 1, scapula: R, 1, humerus: R, radius: R, metacarpal: L, R, pelvis: R, tibia: L, astragalus: 2R, metapodial: t, phalanx 1: 1.

Dog: tooth: 1, vertebra: 2, humerus: L, metacarpal: L, R, ulna: L, 1, tibia L, 2R, calcaneum: L, metafarsal: 2

Cat: mandible: L, humerus: R, pelvis: L.

Red deer: metatarsal: R.

Rue deer: mandible: R, humerus: L.

Hare: scapula: L, pelvis: R, calcaneum: R.

Table (M)23 Phase 3/4Ai

	Cattle			Sheep			Pig		
	L.		Ŕ	L		R	L.	_	Ŕ
Skul l	1	1	5	1		3	1		3
Maxilla				•			2		2
Mandible	4		2	5		6	1		5
Tooth		2			1,1			1	
Vertebra		8			21			4	
Rib		50			92			(14)p	iglet
Scapula	2	1	2	3	1	5	3	·	⁻ 3
Humerus	5	1	6	9	2	4	4		6
Radius + ulna	5		2	4	1	6	1		1
Metacarpal	1	2	1	3	2	1	2	1	1
Pelvis	3		2	3		5	1		3
Femur	2	7	3	1	4	3	3		1 3 3 3
Tibia	3	3	5	12	2	8	2		3
Astragalus			2						
Calcaneum	2		1	3			1		
Scapho-cuboid			1			i			
Metatarsal			1	1			1	2	3
Phalanx 1	2		ì	1					
Phalanx 2	1		2				1		
Phalanx 3									
Total		82			103		<b></b>	59	
(ex. T, V, R)		34%			42%			24%	

Goat: radius Piglet: 11 bones

Also: Horse: vertebra: 1.

Includesi

Dog: pelvis: R, tibia: L. Rabbit: humerus: L.

Table (M)24 Phase 3/4

	Cattle			Sheep			Pig		
	L		R	L	,	ĸ	L	_	R
Sku11	1	1	1	2	1	1			
Maxilla									1
Mandible	1		3			1	1		1
Tooth		4			1			5	
Vertebra		2			4			2	
Rib		32			30				
Scapula	1	1	1			2		1	
Humerus	2	_	-	4		2	2		1
Radius + ulna	_	1	3	4	1				
Metacarpal		_	-		1	2			2
Pelvis			3	2		2 2 <b>5</b>			
Femur	1	2	_	_	2	22	2	2	
Tibia	2		2	1		1			1
Astragalus	_		_	1					
Calcaneum	1		1	1					
Scapho-cuboi d	_		_	_					
Metatarsal		1			2	1	1		1
Phalanx 1	1	-	1		_	=	2		2
Phalanx 2	1		-						
Phalanx 3	-								
Total		32			41			20	
(ex. T. V. R)		34%			44%			22%	

Also: Horse: mandible: L. R. tooth: 1. tibia: L. Red deer: humerus: L.

Table (M)25 Phase 4Ai

Ph <b>ase</b> 4Ai											
		Catt	le		Shee			Pig			
	Ĺ.		Ŕ	L		R	L		R		
Skal l	146	74+	142	53	6	58	16		17		
Maxilla	10		2	24		26	14		11		
Mandible	32		33	77		77	25		36		
Tooth		115			62			46			
Vertebra		284			384			35			
Rib		768			<b>9</b> 78						
Scapula	37	39	21	57	13	57	14	5	17		
Humerus	37	7	40	79	7	60	2 <b>6</b>		30		
Radius + ulna	29	4	38	94	7	80	15		12		
Metacarpal	19	8	23	50	60	31	13		12		
Pelvis	40	2	43	75		48	12		16		
Femur	32	38	28	28	94	33	13	10	14		
Tibia	41	4	45	122	27	146	15	1	24		
Astragalus	22		15	10		18	4		2		
Caicaneum	1.6		13	9		15	8		8		
Scapho-cuboid	4		6	2		1	1				
Metatarsai	35	95	25	69		68	14	2	10		
Phalanx I	38		37	37		28	5		6		
Phalanx 2	22		17	5		5	2		1		
Phalanx 3	11		9	3 <b></b>		5	1 				
Total		1381			1774			430			
		witho									
	skul)		i.)								
(ex. f, V, R)	******	31%			55%			14%			
Includes	3 pol	lled		1 pol 2 Ran Goati	វាទ	,11 <b>:</b> 31	L. 4R				
				Goat?	n rac	dius: I	L,				
					met	acarpa	al: L,	3R.			
Also: Horse:				ndible							
				, scap							
									vis: L	•	
				: 3L,					r.		
				3R, ca 5			, всар	UO1 <b>4</b> :	к,		
•	<b>小</b> 便	rtatar	5813	R, phe	etanx _.	11 4.					

mandible: R, humerus: L+R, radius: L, ulna: L, femur: L+R, tibia: L+R (all one animal): also skull: R, vertebra: 1, humerus: R, radius: L. 1,

Cat:

Dog:

metacarpal: 3R, metatarsal: R. vertebra: 4, rib: 9, humerus: L+R, radius: L+R, ulna: L+R, petvis: L, femur: R, tibia: L+R, fibular 1, metapodial: 1 (all one animal): also vertebra: 2, rio: 5, humerus: L, radius: L+R, ulna: L+R, pelvis: L, femur: L, tibia: L+R, metatarsal: 2 (all one animal): also skull: 2L, R, mandible: L, vertebra: 4, humerus: 4L, 2R,

radius: 2L, R, ulna: 2R, palvis: 2L, R, femur: 4L, 2R, 1, tibia: 1, 2R.

Rabbit:

tibia: L, metatarsal: 4, phalanx: 4. humerus: L, radius: L, pelvis: L, R, tibia: Hare:

L, R, calcaneum: L, metatarsal: L, 2R, phalanx

1: 2.

Red deer: tibia: L. R. metatarsal: R.

fallow deer: metatarsal: L.

Red/Fallow

: metatarsal: L deer

Table (M)26 Phase 4Aii (excluding AA543)

	Cattle				Shees	Þ		Pig		
	L		R	L	·	R	L	-	R	
Skul I	24	2	21	11	t	12	12		6	
Maxilla	4		1	4		3	5		6	
Mandible	t 4		9	t 9		19	5	1	7	
Tooth		13			13			8		
Vertebra		41			59			4		
Rib		144			141					
Scapula	6	5	11	5 7		5	4		3	
Humerus	6	1	<b>4</b>	7		8	t		5	
Radius + ulna	13	2	10	11	1	16	2		4	
Metacarpal	İ	4	4	7	1	4	4		t	
Pelvis	11		1 <b>4</b>	10		17	3		2	
Femur	フ	5	16	6	15	11	5	2	2 2 2	
Tibia	ib	t	18	15	2	25	3		2	
Astragalus	3		4	i					2	
Calcaneum	6		3	.3		.3	t		1	
Scapho~cuboid			2			t				
Metatarsøi	8	5	2	7	3	6	i	1	1	
Phalanx i	10		7	1						
Phalanx 2	3		2							
Phalanx 3	2		4			t				
Total		293			269			92		
(ex. T, V, R)		45%			41%			14%		

Includes:

1 polled ?Goat: horn core

Also: Horse: tooth: 4, scapular 2L, humerus: L, radius: R, femur: L, calcaneum: L, phaianx 1: 1, phaianx 2: 2.

Dog: metacarpal: L, tibia: R.
Cat: 2 virtually complete skeletons: also skull: 1, tooth: 1, vertebra: 1, scapula: 2L, R, humerus: L, utna: L, pelvis: R, metatarsal: 3: humerus: R.
Rabbit: humerus: R.
Hare: metatarsal: R.
Polecat/: skull: 2, mandible: 2L+2R, vertebra: 3, Ferret humerus: L+R, utna: L, femur: L+R, tibia: L.

Table (M) 27 Phase 4Aii (AA543 only)

	Cattle			Sheep			Pig		
	Ļ		R	L.		F	Ļ		R
Skull	152	109	129	2		3		4	
Maxilla				1			2		1
Mandible		1				1	2		2
Touth		3			4			14	
Vertebra		됨			7			41	
Rib		39			24				
Scapula		.3		2 2	1		5		4
Humerus		3	2	2		4	8		11
Radius + แโกล			1	2	1	2	6		4
Metacaroal	1	2	1		1		i		1
Pelvis	2 3			2		3	5	ម	4
Femur		3			2		11		13
Tibia	5		8	5		2			6
Astragalus	2		1				1		5 5
Calcaneum			3				3		5
Scapho-cuboid							1		3
Metatarsal		1	1		1	1	1		4
Phalanx 1								6	
Phalanx 2			1					7	
Fhalanx 3								9	
Total		434 out si a: 44	cul l		38			143	
(ex. T, V, R)	ıı by:	49%		<del></del>	42%	····		<b></b>	<u> </u>

Includes:

Goats

horn core: L, 3R.

Also: Fig: mandible: R, tooth: 2, vertebra: 1, scapula: L, pelvis: L, R, femur: 2L, R, metatarsal: L (total 8: 9%).

Dog: vertebra: 1, tibia: R. Cat: metacarpal: 1, pelvis: L, tibia: L.

	Cattle				Shee	Þ	f'ı g		
	Ĺ.		R	L		Ŕ	Ĺ.	-	R
Skul I	13	2	11	6	4	4			2
Maxilla						1			1
Mandible	3		4	3		7	3		4
Toath		14			19			9	
Vertebra		14			22			6	
Rib		77			73				
Scapula	4	5	3	5		9	6		
Humerus	4	1	5	4		8	2		3
Radius + ulna	5		4	5	2	10			
Metacarpal	4	4		7	9	6	3		1
Pelvis	2		5	5		7	1		1
Femur	2	9	6	4	10	7	1		4
Tibia	10	1	6	12	3	21	2		6
Astragalus	1		1	1			1		
Calcaneum	4		2	2					1
Scapho-cuboid			1						
Metatarsal	3	2	1	6	9	6	2		2
Phalanx 1	6		3	4		2			
Phalanx 2			2			2			
Phalanx 3	2		7			2			
Total		144			194			46	
(ex. T, V, R)		37%			51%			12%	

Includest

Goat:

horn core 2L, 1. Goat?: Numerus: R.

Also: Horse:

tooth: 2, humerus: L. metacarpal: R. metatarsal:

Dog:

L, phalanx 1: 3, phalanx 2: 1, phalanx 3: 2. skull: 2, mandible: L+R, vertebra: 3, scapula:

R. ulna: R. femur: R. tibia: R. mandible: L. femur: L.

Red deer: radius: L. Roe deer: radius: R. tibia: R.

Table (M)29 Phase 4Aii/Bi

	Cattle			Sheep			Fig		
	L.		R	Ļ		R	Ļ		ĸ
Skul l	3	1		8		2			2
Maxilla				2					
Mandible	1		2	6		10			1
Taath					2			2	
Vertebra		6			20				
Rib		35			42				
Scapula	3			1	1		1		2
Humerus			5	4		2	1		1
Radius + ulna			1	3		2			2
Metacarpal	2 3	3	1	1					
Pelvis	3		i	3		Z			
Femur		1		1	4	2	1		
Tibla	2	1		5	1	1			1
Astragalus				1					
Calcaneum									
Scapho-cuboid									
Metatarsal	1	1	1		1	2	1		
Phalanx 1	6		5			1			
Phalanx 2	7		2						
Phalanx 3	4		1	<del>.</del>					
Total		58			66			13	<b></b>
(ex. ₹, V, ₹)		42%			48%			10%	

Includes:

1 polled

Also: Horse: tooth: 1, astragalus: L, phalanx 1: 1.

Table (M)30 Phase 4Bii

		Cattl	e	Sheep			Pig			
	Ł		R	L	•	R	Ł.	-	R	
Skul i	a	7	7	5	2	1	2		3	
Maxilla	1			1			1			
Mandible	3		1	5		6	2			
Tooth		19			17			6		
Vertebra		22			10			5		
Rib		54			62					
Scapula	6	5	4	1		B	2		3	
Humerus	4		3	7	i	6	2 3			
Radius + ulna	3		5	7		7	5		4	
Metacarpal	3 2		5	2	2	5		1	1	
Pelvis	9		7	4		4	1			
Femur	4	i 3	2	4	6	5	2	2	4	
Tibia	ė,		5	17		11	2		2	
Astragalus	1		2	1		1				
Calcaneum	5		4	1			2			
Scapho-cubord			1							
Metatarsal	3	4	3	7	9	8			1	
Phalanx 1	4			4		2	1			
Phalanx 2	2									
Phalanx 3	1			2						
Total		136			152			44	<b></b>	
(ex. 1, v, R)		41%			46%			13%		

Also: Horse: Ghull: 1, mandible: 1, tooth: 3, metacarpal: L, 1, phalanx 1: 1, tibia: R, astragalus: R, calcaneum: R, metatarsal: R.

Dog: tooth: 1, tibia: L. Cat: skull: R, tibia: L.

Table (rD3) Phase 4

		Cattl	_	Sheep				Pig	
	L		R	L	r	R	L	-	R
Skall	3	1	1	2		1	1		1
Maxilla									
Mandible	3			3		2	2		11
Tooth		i			10			4	
Vertebra		4			10			2	
Rib		49			26				
Scapula	ı	2	3	3	1	2	1		:2
Humerus	4	-	2	3	•	5	1		1
Radius + ulna		1	_	نَ		1	_		2
Metacarpal	3	1	1	•		$\dot{\hat{\mathbf{z}}}$			
Pelvis	3 2	-	2	7		1			
Feaur	1	2	_	1	6	-			
Tibia	$\frac{5}{2}$	-	3	ŝ	_	4	1		1
Astragalus	_		-	,,,		•	-		•
Calcaneum	1								
Scapho-cuboid	1		1						
Metatarsal	i		1	4	1				1
Phalanx 1	í		•	1	•				1
Phalanx 2	, 1		•	•					•
Phalanx 3	•		1						
)							. <b></b>	<b></b> .	
Total		48			60			18	
(ex. 1, V, R)		26%			46%			14%	
Includes:				Goa	it: ho	r:n	 ?Wi	ldpic	- <del></del>

Includes: Goat: horn ?Wild pig: core: R. scapula.

Also: Horse: tooth: ., femur: L, phalanx 1: 1. Cat: ulna: R, tibia: L.

Table (M) 32: Ages of Cattle at Death

Phase				
1				1
1/2				1
<u>₹</u>	1		2 11 2	2 1 1 9
3/4				1
3/4Ai		1		
4		1		t
4A				2
4A1	i	1 1	1 2 3	1 1 14
4A11	1 1 2	1	1	1125
4Ai i / Bi	1			
4B1 i		1		1 1
Silver s	abco	defghijk	imaopar	- stuvwxyz
'Old Ages	0	6 <b>9</b>	30 months	4 5 years

# Table (M) 33: Ages of Sheep at Death

Fhase 1 1/2								1						t	?			1			1			1	2	1
2				1			1				1									1		1	i	٠	3	4
3				-			-	ŧ			-				4	4			1	•	1	7	3	2	_	1
374																							_		1	_
3/4Ai															1	2								1	3	
4																						1		1	1	1
40															3.							2	2		3	
441		2			1		i	1	四		1		1	2	11	10	1		İ		10	13	7	4	46	10
4Ai i							1								2		1		1		1	5	1	2	27	2
4Ai i /Bi																							1		13	
4Bi i																1		1				1		1	4	1
				Þ	f	g	h	i	j	K	1			O	ρ	q	<b>r</b> "	5	t	u	V	W	×	y	Z	z +
Silver s 'Old' Ages	Ģ	1	ı			6						16	9 (	J CO C	ths	5		3			4	yea	r 5			

Table (M)34: Ages of Pigs at Death

Phase							
1			1			2	1
2 3			1	2		1	1
3		.3	4	2	5	7	1
3/4Ai	1						
4		1		i		1	
4A		1	2	1		1	
4Ai		8	4	10	5	4	2
4Ai/ii					1		
4Aı i		5		2		1	
4Ai 1/Bi			1				
4811				1			1
Silver s Old Ages		1		2		3 y	ears

## THE ABNORMAL BONES by J R Baker

- (V43) = 27. Phase 3/4Ai. Pig, right humerus. An irregular ill-defined mass of new bone is present on the anterior surface on the proximal half of the bone; this probably resulted from tearing of the insertion of muscles at this site. A ridge of new bone is present on the diaphysis just above the epiphyseal plate on the lateral side. The cause of this is unknown.
- (W2) = V1. Phase 4Bii. Cattle, two rib fragments. One has a healing fracture. The other shows a slight swelling but there is too much post-mortem damage to assess the cause.
- Phase 4Ai. Cattle, left tibia. A small swelling 18 x 7 x 3mm is present on the lateral side of the anterior face 35mm above the distal end, probably the result of trauma. Slight irregularities are present on the posterior aspect just above the lower articular surface. The cause is unknown.
- Wil Phase 4Ai. Horse, 3 thoracic vertebrae. These show massive amounts of new bone on the dorsal surfaces with fusion of the zygopophysis; one also shows ventral spondylosis of Morgans Grade 4. These changes tend to occur at this site in elderly draft animals as a result of repeated spinal stress.
- Will Phase 4Ai. Sheep, left radius. A small periarticular growth is present on the lateral aspect of the proximal end. A case of 'penning elbow.'
- Wide Phase 3. Pig, right radius. The distal part of the diaphysis is grossly distended with some periosteal new bone and these appear to be defects in the distal epiphyseal plate. These changes are probably due to osteomyelitis.
- (W20) = V1. Phase 4Bii. Cattle, right horn core. The distal half of this specimen is much narrower than the base, probably as a result of a prolonged period of malnutrition or illness.
- (W68) = 26. Phase 4A. Sheep, right femur. The diaphysis of this bone 15 very irregularly swollen with porous new bone. This is probably a case of osteomyelitis with much periosteal involvement.
- (W69) = 52. Phase 4A. Horse, left metatarsal.

  Feriarticular new bone around proximal end predominantly medially. This is a case of spavin.

  Pig. right mandible. There is alveolar enlargement

round M1 and M2 due to periodontal disease.

- W89 Phase 2. Cattle, 3rd right phalanx. Some new bone has formed around the lower end of this bone on the lateral aspect. The cause is unknown.
- W120 Phase 3. Pig, metapodial. The proximal end of the diphysis is swollen with a fairly smooth cross sectional surface. Probably a non-union fracture.
- (X6) = V1. Phase 4Bii. Sheep, left radius. Considerable periarticular new bone on the lateral and posterior surfaces. Some damage, probably traumatic, was done to the radius ulna articulation at this site when the animal was young.
- Phase 4Aii. Cattle, left patella. Considerable new bune has formed on the distal half of the anterior face probably as the result of severe trauma causing tearing of the patella ligaments.
- Phase 4Air/Bii. Cattle, left 1st phalanx.
  Ferranticular new bone has formed all round except posteriorly, probably as a result of a sprain type injury.

  Sheep, left mandible. The condylar articular surface is rough and the coranoid process is distorted and expanded. There was probably some soft tissue disease in this area.
- Phase 4A: Cattle, right first phalanx. There is periarticular new bone around the proximal articular surface, resulting in some expansion of the surface. Some eburnation is also present. A case of osteoarthritis.

  Horse, right metatarsal. Considerable irregular new bone is present adjacent to the proximal articular surface, probably as a result of tearing of the lateral ligaments of the joints.
- (Y128) = 39. Phase 3. Cattle, rib fragment. This shows considerable expansion at one end with a very irregular cross sectional surface. This is probably a fracture which may have been infected. Fig. left metatarsal. There is irregular periamticular new bone at the proximal end, mainly anteriorly, probably the result of a sprain type injury.
- (Y136) ≈ 130. Phase 3. Sheep, right metatarsal. A ridge is present on the anterior half of the bone on the lateral side. It is 60mm long. The cause of this fairly common abnormality is not known.
- (Y143) = 118. Phase 3//4Aii. Cattle, left metacarpal. A low ill-defined smooth swelling is present on the medial

surface just above the mid shaft, probably the result of a blow.

Sheep, rib. This shows angular deformities due to a healing fracture.

- Phase 4Ai. Cattle, right metatarsal. There is broadening of the outer lower articular condyles and new bone in the region of the epiphyseal plate on the lower anterior surface. These changes are seen in draft oxen.
- AA+ Cattle, horn core. The tip, for a distance of approximately 40mm is thinner than the remainder of the core. The tip has probably formed during a period malnutrition or of chronic disease.
- Phase 3. Cattle, left first phalanx. Irregular new bone has formed around the distal articular surface both dorsally and laterally. This probably results from an inflammatory lesion around the coronet of the hoof.

  Cattle, right first phalanx. Fairly smooth new bone has formed around the proximal articular surface, probably as the result of a sprain type injury. Cattle, rib fragment. One end shows evidence of a non-union fracture with early false joint formation. Pig, left tibia. A swelling of new porous bone is present on the lateral aspect centred 30mm from the

epiphyseal plate. It measures 250 x 120mm and is 6mm high. There appears to be a Fragment of another bone in the surface. This is probably a reaction to a

AAI3 Phase 4AI. Cattle, fragment of Left acetabulum. This shows an area of eburnation on the pubic surface. Red deer, right metatarsal. A smooth swelling 50 x 10 x 4mm is present on the anterior aspect of the shaft 130mm from the proximal end. This is the result of a blow.

fracture of the fibula.

- AA25 Phase 3. Sheep, left mandible. Premolar 4 was lost antemortem, probably as the result of periodontal disease.

  Cattle, left side of pelvis. The pubis shows an expanded irregular lesion only half of which is present on the specimen. This is a non-union fracture.
- AA49 Phase 4Ai. Cattle, right metacarpal. A small amount of periarticular new bone is present on the lateral aspect of the proximal end. The cause of this is not known.

  Cattle, distal end of left tibia. Two hollows are present on the articular surface measuring 10 x 7mm and 4 x 2mm. These are congenital.

AA62 Phase 4Aii. Sheep, right mandible. The 4th premolar is missing and its alveolus enlarged and the Jaw is slightly swollen in this region. This is periodontal disease.

(AAAR) = +. Cattle, left metacarpal. A swelling 18 x 17 x 3mm is present on the lateral aspect of the shaft, 95mm from the proximal end. This is the result of a blow.

Pig, left metatarsal. There is periarticular new bone at the proximal end; this is probably the result of a sprain type injury.

Red deer antler. A marked swelling is present going right round the beam and a mass of abnormal cancellous bone fills the space. This possibly represents a healed infection in the core of the beam. (WB79).

AA70 Phase 3. Cattle, rib fragment. This shows a partially healed fracture.

AA77 Phase 3. Cattle, metatarsal. There is a small amount of new bone on the anterior aspect just above the distal articular surface. This is the result of a sprain type injury.

AAB1 Phase 4Air. Sheep, right metatarsal. The large cuneiform is fused to the metatarsal with new bone on its anteromedial surface. The cause of these sprain type injuries in sheep is not known.

(AAB2) = 49. Phase 4Ai. Pig, left metatarsal. Small amounts of irregular periarticular new bone are present on the upper anterior aspect of the bone. The cause is unknown.

AA(71) = 72. Phase 4Ai. Cattle, thoracic vertebra, dorsal spine. A nodule of new bone, damaged after death, is present on the right side of the tip. This probably results from damage to the ligament at this site but the cause is not known.

Sheep, left ulna. The proximal end shows irregular expansion, the result of a periostitis/ostitis, possibly originating in the elbow joint.

Pig, rib fragment. There is considerable expansion of the head of the rib together with destruction of the articular surface. This is a suppurative arthritis, probably originating from osteomyelitis in the adjacent vertebral body.

AA97 Phase 4Ai. Cattle, rib fragment. One end of this bone shows marked irregular expansion and pitting. This represents an infected fracture site. Cattle, right first phalanx. A small amount of new bone is present on the medial side of the proximal end just below the articular surface. This is a

sprain type injury.

Sheep, left metacarpal. A small spiky growth is present on the postero-lateral angle of the shaft 10mm from the proximal end. It is 8 x 2 x 2mm, of unknown cause.

- AA97 Phase 4Ai. Sheep or pig, rib fragment. One end shows irregular expansion probably representing a partially healed fracture.
- AA98 Phase 4Aii. Pig, left radius, Large amounts of porous new bone have formed adjacent to the proximal articular surface which shows some evidence of pitting. This pig had a septic arthritis.
- AA117 Phase 4Ai. Cattle, left calcaneum. Large amounts of new bone have formed on the medial aspect and around the groove of the deep flexon tendons. This is relatively common archaeologically but has not been found by the author in modern material. The cause is unknown.

  Cattle, right scapho-cubbid. Large amounts of new bone have formed on the anterior aspect and his is marked degeneration of the distal articular surface. Cause unknown.
- AA134 Phase 4Ai. Red deer, time. There is a fusiform swelling around the circumference of the antier. Cause unknown. (WBBO).
- AA152 Phase 3. Cattle? scapula? This fragment appears irregular but without a definite identification it is difficult to comment.
- AA183 Phase 2. Pig, spinous process of thoracic vertebra.
  The tip of this bone is irregularly expanded to form a swelling 12 x 15 x 11mm. There is post-mortem damage but it probably represents osteomyelitis.
- **AA2**03 Phase 4Ai. Cattle, rib fragment. Irregular swelling and pitting close to the articular surface. This could represent either a healed fracture or healed osteomyelitis. Sheep, left mandible. The ventral border of the lower ramus is unusually broad, possibly congenital. Sheep, left femur proximal end. The shaft of this bone is very thin, the animal has osteoporosis, probably of nutritional origin. Sheep, right femur. Irregular nodules of new bone are present on the posterior aspect of the shaft measuring 45 x 8 x 4mm. Cause unknown. Pig, right ulna. A small amount of new bone has formed periarticularly at the proximal end on the anterior aspect. The cause of this is unknown.
- AA204 Phase 4Ai. Sheep, left humerus. There is

periarticular new bone around the distal articular facets which possibly shows early eburnation. Osteoarthritis.

- AA210 Phase 4Ai. Cattle, left metacarpal. A smooth swelling is present on the medial aspect above the distal end, 40 x 15 x 4mm. This is the result of a blow.
- (AA214) = +. Cattle, thoracic vertebra fragment. This shows large amounts of periosteal new bone at the base of the thoracic spine. This may be evidence of a healing fracture or osteomyelitis.
- AA217 Phase 3? Sheep, left radius. A small amount of periarticular new bone has formed at the distal end, mainly on the lateral aspect, probably as a result of a sprain type injury.
- (AA226) = 93. Phase 4Ai. Cattle, rib fragment. One end shows considerable expansion and is suggestive of a healing fracture, possibly infected.
- AA227 Phase 2. Sheep, thoracic vertebra. The tip of the dorsal spinous process is expanded to form a fat plate at right angles to the spine as a result of traumatic damage to the ligament at this site.
- AA344 Phase 4Ai. Horse, right radius. A long slightly irregular swelling is present on the medial aspect of the posterior side, starting at the mid shaft, 45 x 13 x 3mm. This type of lesion usually results from periosteal elevation following a blow but the degree of muscle protection at this site renders this explanation unlikely.
- AA346 Phase 4Ai. Pig, right tibia. Small plaques of new bone are present on the anterior and medial aspects just above the distal end. The cause of these is unknown.
- (AA352) = 309. Phase 4Ai. Horse, left scaphoid. Early degenerative changes of the anterior edge of the distal anticular surface. Probably early esteoarthritis.
- Phase 4Ai. Cattle, proximal end of right metacarpal. A large, somewhat irregular area of porous new bone has formed on the anteromedial aspect of the bone immediately below the articular surface. It measures 60 x 45 x 9mm. The cause is unknown.
- AA370 Phase 4Ai. Cattle, dorsal spinal process of thoracic vertebra. This shows an irregular expanded area probably representing a partially healed fracture.

- AA373 Phase 4Ai. Sheep, left humerus. A spur of new bone is present on the lateral aspect of the distal epiphysis. This is of traumatic origin and is probably a case of 'penning elbow.'
- AA392 Phase 4A: Pig, right tibia and fibula. The two bones are fused together by a plate of new bone 30mm from the distal end. It is identical to that from AA7 and is probably the result of a fracture of the fibula.
- AA400 Phase 4Ai. Sheep, left humarus. Very similar to that from AA373; a case of 'penning elbow.'
- (AA420) = 167. Phase 2. Cattle, rib. The bone is very irregular in shape over 80mm close to the head with small spurs present, one facing posteriorly and two anteriorly. There is a fracture which has healed out of line.
- (AA421) = 168. Phase 2. Cattle, lumbar vertebra. A large number of small pits are present at the base of the spinous process. The cause of these is not known.
- ### (501) = +. Cattle, rib fragment. There is an area of irregular expansion close to the proximal end. This is an area of osteomyelitis.
- AA509 Phase 4Ai. Cattle, left metatarsal. A small amount of new bone has formed periarticularly on the lateral aspect. This is probably the result of a sprain type injury.
- AA513 Phase 3//48ii. Cattle, right metatarsal. A small (8  $\times$  7  $\times$  3mm) nodule is present on the lateral surface 20mm from the articular surface. The cause is possibly a sprain type injury.
- AA520 Phase 4A. Cat, metacarpal. The bone shows an irregular deformity at the proximal end, probably the result of a fracture.
- AA529 Phase 4Ai. Horse, lower cheek tooth. Nodules and linear areas are present at this root, probably the result of periodontal disease.
- AA540 Phase 3/4Ai. Cattle, rib fragment with healed fracture.
- AA543 Phase 4Aii. Cattle, horn core. The cranial end of this is expanded and very heavily pitted on the cross sectional surface. This is a case of osteomyelitie.

  Sheep, left humerus. A spur of bone is present on the lateral aspect, a case of 'penning elbow.'

  Sheep, right ulna. The proximal end is very

irregular and expanded. Cause unknown. "lorse, 3 thoracic and 1 lumbar vertebrae from same animal. A large amount of new bone is present on the Corsal arches and around the zygopophyses and spondylosis of Morgans Grade 3 on T17 and T16. These changes tend to occur in elderly draft animals as a result of repeated spinal stress. Horse, 1 lumbar vertebra. Large amounts of periarticular new bone has formed around the zygopophyses - see above specimen. Horse, right scapula. A very large mass of new bone has formed on the neck and periarticularly, and a new articular surface has formed on some of this with concurrent destruction of the glenoid cavity. This animal had a dislocated shoulder for a very long time before its death. Horse, right calcaneum, astragalus scaphoid and large and small cuneiform, the latter three bones being fused with new bone on the anteromedial aspects; small amounts of new bone are present on the medial and lateral sides of the calcaneum and the medial side of the astragulus. These changes have resulted from a sprain type injury. Horse, right lower tarsals and metatarsal fused together and the splints are also fused. The fusion has resulted from the formation of periarticular new bone most marked in the anteromedial aspect. This is a case of spavin.

AA568 Phase 4Aii. Pig, metapodial. This has a deformed shaft close to the proximal end, the result of a healed fracture.

AA579 Phase 4Aii. Sheep/gout, left metatarsal. There is antero-posterior thinning towards the distal end, probably congenital.

AA580 Phase 4Aii. Sheep, right radius. A spilty growth of new bone adjacent to the proximal articular surface on the lateral aspect — this is 'penning elbow.'

## THE FISH BONES by Alison Locker

### INTRODUCTION

A total of 351 fish bones was recovered from deposits dating from before AD 700 to the post-medieval period onwards. The following species were identified: eel (Anguilla anguilla), herring (Clupea harengus), pike (Esox Lucius), cod (Gadus morhua), haddock (Melanogrammus aeglefinus), ling (Molva molva) mackerel (Scomber scombrus), plaice (Pleuronectes plotessa) and halibut (Hippoglossus hippoglossus). The non-specific groups are Salmonidae and Gadoid. Although two large vertebral centra seem likely to belong to salmon (Salmo salar), the possibility of trout (Salmo trutta) cannot be excluded; Gadoid refers to bones that belong to fish of cod/ling size but are too fragmented for positive identification and flatfish which similarly are too fragmented for specific identification. Tables MI-3 show the species and the type of bone identified in each context.

### BIOLOGY AND FISHING METHODS

The fish identified are predominantly marine, with cod, ling and the gadoid group dominating the medieval contexts. Transportation of fresh marine fish to Northampton with its inland situation would have been impossible prior to the Industrial Revolution and the fish, therefore, were probably salted or dried. The nearest port would have been King's Lynn, although the biology of some of the fish suggests that they were caught from more northerly ports.

An offshore fishery based on lines is suggested by the cod. haddock and ling bones. Cod are found from the shoreline to depths of 600 metres. The few measurements that were possible (four) suggest that the cod from the medieval period onwards were 0.91-1.17m in total length which is up to the average size found today (Wheeler 1978, 150). Haddock live on the sea bed at depths of 40-300 metres. Both cod and haddock could have been caught by a fishery based at Kings Lynn. Ling, however, has a more northerly distribution. It is a deep water fish, commonly found at depths of 300-400 metres, and is not normally encountered farther south than the northern part of the North Sea. It seems likely, therefore, that ling were brought overland from one of the Yorkshire ports or by sea to King's Lynn and then overland.

Halibut are large (up to 2.5m in length) bordar flatfish, caught on hooks. Today they are more common in the deep water of the northern part of the North Sea (Wheeler and Jones 1976, 220), although it is possible that they occurred farther south in the Saxon period. Plaice occur on all coastlines, commonly at depths of 10-50 metres, and can be caught by book or in shoreline traps.

Fine sucface nets are used for both herring and mackerel, both of which form large shoals and are seasonally plentiful off the East Anglian coast. Herring in particular gave rise to an

important fishing industry.

Fresh water fish are poorly represented. Eals are likely to have been caught in their freshwater stage by trapping in 'eel-bucks' (Wheeler 1979, 61), or by spearing; they could also have been stored live in ponds (Hickling 1971-2, 119). Pike are predatory fish typically found in lowland rivers and lakes, and would have been caught by rod and line.

#### THE SAXON PERIOD

As seen in Table M1 only 18 bones were found, and of these only nine were identifiable. The unidentifiable bone included fin ravs which generally cannot be assigned to species. Eel fisheries were very important in the Saxon period. 'Eel-bucks' were wickerwork traps set in the millstream above the waterwheel. Water mills became widespread in lowland Britain after the 8th century (Wilson 1973, 29). The single herring skull fragment is scant evidence of the fishery that was an important factor in the economy of Britain by the time of the Norman Conquest (Wilson 1973, 27). Herrings would then have been salted; this did not, however, give such a long storage life as that of the later processes of smoking and pickling. The single cod vertebral centrum would have been from a dried or possibly salted fish. The presence in deposits of the 9th and 10th centuries of halibut, identified from a large caudal centrum, is unusual since, as previously discussed, it is a deep water fish of more northerly distribution. It is, however, a valued foodfish. The centrum was chopped right through in a medio-laceral direction, with a single knifecut also across the centrum. Perhaps only a contion of this fish was brought to . Northampton, dried or salted.

#### THE MEDIEVAL PERIOD

Fish bones from medieval deposits make up 74% of the fish bone from the whole site. Cod, ling and the gadoid group form 82% of this assemblage (Table M2). When god and ling were prepared at the port for drying and salting the fish were gutted and the heads removed. No ling skull bones were present, and cod was mainly represented by Vertebral centra (85 out of 87 identified bones). Knifecuts were observed on both cod and ling vertebral centra, and one 15th century cod cleithrum was chopped through. The fish bone is thus clear evidence of the importance of preserved fish during this period; a large number of fish days were obligatory until the end of the 15th century (Wilson 1973, 31). Ling were only found in medieval deposits. Other marine fish remains included two fragments of herring, which, as in the Saxon period, provided poor evidence of the thriving industry prosecuted from the East Anglian coast, the mearest source, as well as from many other ports from which salted, and in later times, smoked and pickled, herring were marketed. Mackerel was identified from a single vertebrel centrum. Being an oily fish it was also smoked and pickled. Plaice and other flatfish seem to have been of little importance at this particular site. Two salmonid (probably salmon) vertebral centra were identified. If they were not caught locally, they may have

come from Ireland or Scotland in pickled form (Wilson 1973, 37). Fike was identified from a single skull bone; it was not a large specimen. The preference for marine fish over those from fresh water during the medieval period (Wilson 1973, 41) is reflected in the low numbers of freshwater fish found in proportion to the marine fish; it seems to be true for all periods at this site.

#### POST MEDIEVAL AND LATER

Table M3 also includes some 15th century or later deposits which could not be dated closely. Two further pike skull fragments were found, the other remains being cod and/or jadoid fragments. The cod included three cleithra dated to the Lith century onwards which had all been chopped about the mid point in a dorso-ventral direction. One had also been chopped at the point nearest to the cranium. These chop marks were in a similar position to that on the bone from the medieval deposits, and similar marks were also found in post-medieval deposits from Pontefract Castle (Locker, unpublished). They may be associated with primary butchery in the removal of the head.

### CONCLUSIONS

The amount of fish bone recovered from Saxon deposits is really too low to suggest any trends, but certainly from the medieval period onwards the transport of preserved fish to Northampton appears to have been important. Cod, headless, and salted or dried, seems to have been the most frequently used at this particular site.

## **ACKNOWLEDGEMENTS**

I would like to thank Dr S Colley for the use of reference material and comparative measurements from the Faunal Remains Project, University of Southampton.

Table (M)35: Saxon

CONTEXT	EEL	HRØ	COD	HLB	FFH	UND	TOTAL
Pre 700 (AA451)=423	-	_	_	<u></u>		isk	1
700-850 (AA923)=904	_	_	1.				1
AA208	4v		-	-	_	1 🗸	9
	-	-	-	-	-	4fr	1
850-1100	· •• •• • • • • • • • • • • • • • • • •						
(Z52)~32	_	-	-	1 🗸	~	_	1
Y55	-	_		-	1	_	1
(AA132)=123	19k	1sk		₩	-	3fm	5
Total	5	1	1	1	1	9	18

# KEY

EEL = Eel

fr = fragment

HRG = Herring

sk = skull fragment

COD = Cod

v = vertobral centrum

HLB # Halibut

FFH = Flatfish

UND - Unidentifiable

Table (M)36: Medieval

CONTEXT	HRG	SLM	PKE	COD	HDD	LNG	GAD	MCK	PL.C	FFH	UND	TOTAL
1100-1400												
(W16)=5	_	-	-		_	-	_	-	-		1fr	1
Y50	-		-	-		_		_	-	_	4fr	4
Y62	~-	_	-	-	_			_	_		4fr	4
(Y <b>87) ≃5</b> 3	-				lsk	-	-	-	isk	_	-	2
AA10	_	_	_	-		_	15k		_	-		1
AA97	-	$1 \vee$	_	1 🗸	-					-	2fr	4
AA99	_	-	lsk	-	-	-		-	-			1
AA100	_	-	•	-	1 <b>5</b> k	_	-	_		-	1 <b>s</b> k	2
AA327	-	-	-	144	_	44	2v 21fr		-	_	-	41
(AA347)=344	-	-	-	<b>64∨</b>		164	32v 1sk 42fr	-	_	-		155
AA371	_		_	2v	_	2v	_		_	_	_	4
AA397	-	_	_	_		-	-	-		-	14+	1
1400~1500								· ·				<del></del>
YB		-	_	1 <b>5</b> k	_		***	_	_	-	-	1
Y31	2sk		-	lv 2sk		-	••	-	-	-	4+-	9
AA35		~	-	1sk		_				1 🗸		2
AA62	_			3v					-	_ •	_	3
AA95	_	1 🗸	••		_		_		_	_	16fr	17
AA543							3v				_	3
AA568	-		-	-	-		****		-	-	24r	Z
1 100-1 <b>5</b> 00				And the same has been about the				· · · · · · · · · · · · · · · · · · ·	··· ·· · · · · · · · · · · · · · · · ·	·		
(AA521) =520	-		-		_	-	1 <i>fr</i>	-	-	-	ifr	2
Total	2	2	1	89	2	22	103	1	1	1	37	261

KEY

HRG = Herring

SLM = Salmon

PKE = Pike

COD = Cod

HDD = Haddock

LNG # Ling

GAD = Gaddid

MCR = Mackerei

PLC = Plaice

FFH = Flatfish

UND = Unidentifiable

fr = fragment

#k = skull fragment

v = vertebral centrum

Table (M)37: CONTEXT					tratified TOTAL
1500-1700 AA211	_	-		1fr	1
1700 bnwards ( <b>249)=12</b> Y2	<u>-</u>	- -	lfr -	- 1fr	1 1
1400~1700 Y32	2sk	3v 9sk	59k	9sk 40fr	68
U/S	_	14	_	-	1
Total	2	13	6	51	72

# KEY

fr = fragment

PKE = Pike COD = Cod GAD = Gadoid wk = skull fragment

v = vertebral centrum

UND = Unidentifiable

## THE SHELLFISH by G E Oakley

Oysters (Ostraea sp.) are the most numerous shellfish, represented by a few individuals from Phase 1 through to Phase 4Ai. In Phase 4Aii (and 4Aii/Bi) the numbers rise dramatically, chiefly as a result of prolific finds from two contexts (Y31, Y32). This, however, agrees with the evidence from nearby excavations on St Peter's Street and also Marefair where oyster shells were most numerous in 15th century contexts. Shells from later phases of this excavation are few perhaps because relatively few contexts of later periods were investigated and a decline in the appetite for marine shallfish should not be read from this negative evidence.

Other marine shellfish are represented by a handful of shells; mussels (Mytilus sp.) from Phases 3, 4Aii and 4Aii/Bi; whelks from Phase 4Aii/Bi only. Only two pieces of shell of freshwater mussel were found, both from Phase 4Ai, one identified by Mark Robinson as Unio sp. These shells tend to be less robust and therefore may be less likely to survive as archaeological evidence than oyster shells. Freshwater mussels are found in freely flowing fresh water (perhaps the River Nene) but are less palatable and individually less nutritious than oysters.

The number of shells from each phase are listed in Table (M)38 showing left and right in bivalves from which minimum numbers of individuals are deduced.

Table (M)38: Numbers of Shellfish

	Ć	)yst	er.		rine ssel		um numbo Marine		individuals Freshwater
Phase	L.	?	R	L	71				
1	3		2			3			
1/2		i	1			1			
2	3		2			3			
2?	2					2			
3	3	2			1	3	1		
prob 3		1				1			
3?	2	1				1			
3/4	1					1			
4A£	4	1	2			4			1
<b>4</b> Ai i	37		36	3	2	37	3		
4A	1	1	1			2			
4Aii/Bi	50		69	4	6	69	6	10	
481	1		2			2			
4Bi i			1			i			
4			J			i			
+	1		1			1	<i>r</i> .		
								-	
				τατ	ALS	132	10	10	1