

Suburban life in Roman *Durnovaria*

Additional specialist report



Finds

Glass, worked bone, shale and metalwork

By Matt Leivers

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(The cross references denoted 'SL' in this report relate to *Suburban life in Roman Durnovaria Excavations at the former County Hospital site Dorchester, Dorset 2000-2001* M Trevarthen 2008)

Summary

Earlier Roman activity from the 1st and 2nd centuries is attested by some strongly coloured and polychrome glass fragments, the shale trays, the bulk of the brooches, the intaglio rings and the nail cleaners.

The period of most intensive activity at the site was in the late 3rd/early 4th century AD. The chronological span and dominance of late 3rd century coins is paralleled at other sites in the area (Greyhound Yard - Woodward *et al.* 1993; Poundbury - Green 1987; Farwell and Molleson 1993). Parallels can also be drawn in terms of range of type with sites in the wider environs such as Halstock (Lucas 1993).

In terms of represented activities, evidence of textile manufacture is limited to needles and a spindle whorl. Household equipment was common. Styli, counters and weights suggest trading. Carpentry and smithing are attested, and there is equivocal evidence for small-scale industrial processes such as glass-making.

1. Catalogue of glass

Vessel Glass

Much of the glass was unidentifiable, especially fragments of bottles and convex vessel glass without distinguishing features. There were no complete, near complete or reconstructable vessel profiles.

The majority of pieces were of blue-green vessel glass, no more closely dateable than to the first four centuries AD. Some strongly coloured and polychrome fragments may derive from first or early 2nd century vessels. One piece with decoration consisting of three dark green blobs may be 4th century. A piece of glass decorated with an etched fish (SL Fig. 28, p. 20), probably part of a scene depicting Neptune, dates from the first third of the 4th century.

Many of the colourless pieces are in a notably worse state of preservation than the bulk of the glass. This is taken to be the result of the effects of decolourising agents (Price and Cottam 1998, 4), unlike the smaller quantities of heavily degraded coloured glass, which are taken to be medieval or post-medieval in date.

Forms include vessels which are either jugs, flagons, flasks or unguent bottles (on the basis of neck and rim fragments), a bowl with a small base ring, a polychrome pillar moulded bowl, prismatic bottles (represented by square or sub-square base fragments), or other bottles represented by ribbon and rod handles.

Object No	Layer	Weight	Count	Description
	1018	30	2	Includes Post-medieval bottle glass
	2001	151	13	Post-medieval
61	1001	17	1	blue-green
67	1001	5	1	Pale green tubular rim or base ring?
69	1001	1	1	blue
75	1001	1	1	blue-green
97	1009	7	1	pale green tubular rim
106	1022	4	1	Blue-green tubular rim or base ring?
119	1027	11	2	blue-green
130	1043	4	1	blue-green
132	1043	1	1	degraded
133	1043	4	1	blue-green
136	1043	4	1	pale green
139	9999	1	2	pale green
144	1390	5	1	blue-green; bottle or jug; folded rim
160	1061	1	1	pale green; 'ribbed'
161	1100	3	1	yellow-brown bottle or jug; folded rim
162	1100	28	1	blue-green
163	1100	3	1	blue-green
164	1100	9	1	blue-green; base fragment prismatic bottle
166	1100	2	1	blue-green
168	1100	10	5	?
170	1100	2	1	Colourless. Not necessarily roman
171	1100	1	1	blue-green
175	1061	1	1	blue-green
176	1061	1	1	pale green
181	1061	6	1	Pale green; handle fragment?
182	1061	1	1	colourless; small shard unidentified

183	1061	1	1	colourless; small shard unidentified
184	1061	1	1	dark blue
186	1027	1	1	degraded
187	1027	1	1	degraded
189	1027	15	52	degraded
191	1027	1	1	blue-green
193	1233	2	1	blue-green
194	1233	1	1	blue-green
195	1233	5	2	pale green
196	1233	2	1	yellow-brown tubular rim fragment
197	1191	1	1	blue-green
200	1100	1	2	colourless; small shard unidentified
201	1100	2	1	blue-green
203	1100	7	1	blue-green
204	1061	1	1	colourless; small shard unidentified
205	1061	1	1	pale blue
206	1061	1	1	yellow-brown
207	1061	1	1	dark blue
208	1061	2	1	Blue-green; possibly window glass?
209	1061	1	1	pale green
210	1061	1	2	polychrome (yellow/blue)
213	1061	1	1	blue-green
214	9999	1	1	Colourless; rounded rim.
215	1043	5	2	colourless
217	1137	2	1	Blue-green. Abraded
221	1146	9	1	degraded; bottle/flask neck
224	1061	1	1	colourless
225	1001	2	1	degraded; poss window

228	1061	1	2	Brown. Looks modern
229	1061	3	1	pale green
240	1155	4	1	colourless; degraded
243	1187	1	1	colourless; small shard unidentified
249	1187	2	1	blue-green
251	1136	6	1	pale green bottle/flask/jug neck
252	1215	3	1	pale green
253	1203	1	1	pale green
262	1002	3	2	pale green
271	1100	3	1	colourless, very thin
272	1100	4	2	colourless, very thin
276	1100	4	1	pale green bottle/flask/jug neck
286	1100	2	1	pale green rim fragment
288	1278	1	1	dark blue
289	1284	1	1	pale green
296	1291	1	1	polychrome (blue/white) tooled nipple
320	1310	1	1	Colourless. Very thin.
327	1217	1	1	pale green
339	1100	1	1	green
340	1100	1	1	colourless, very thin
341	1100	1	1	colourless
343	1100	1	1	yellow-brown
344	1100	1	1	pale green
345	1100	1	1	pale green
346	1100	2	1	blue green; rolled-in rim
347	1100	2	1	blue-green bottle/jar/flask neck
348	1100	2	1	blue-green bottle/jar/flask neck
349	1100	1	2	pale green

351	1100	1	1	colourless; small fragment unidentified
352	1100	3	3	colourless
353	1100	1	1	dark blue
354	1100	1	1	pale green
355	1100	1	1	pale green
356	1100	1	2	blue
357	1100	2	1	pale green
361	1296	3	1	colourless; tubular foot ring base
362	1310	3	1	pale blue (poss polychrome w/ dark blue) bottle/jar/flask neck
364	1002	1	1	clear; small fragment unidentified
369	1362	4	2	colourless; horizontal double-fold tubular rim
370	1362	3	1	colourless; poss window
371	1342	1	1	blue-green; rounded rim, striated
374	1100	9	3	1 pale green; 2 colourless poss not roman
375	1342	4	1	colourless; 2 ribs
376	1362	2	2	1 pale green; 1 colourless with 2 ribs
377	1362	3	2	1 colourless; 1 green degraded
378	1362	1	1	1 colourless small fragment unidentified
379	1100	3	4	1 blue-green; 2 pale green
382	1100	2	3	2 blue-green; 1 pale green
384	1342	4	1	1 pale green
400	1415	1	1	blue-green
409	1100	2	1	polychrome blue/white
410	1206	8	3	blue-green
411	1100	7	3	1 blue-green; 2 pale green (1 ribbed)
414	1100	9	2	1 blue-green, 1 yellow-brown
416	1312	3	1	pale green bottle/jar/flask neck
420	1100	11	1	blue-green

424	1347	1	1	pale green
425	1511	4	1	yellow-brown
426	1511	1	1	blue-green
427	1511	1	1	dark blue
428	1511	1	1	pale green degraded
429	1511	1	1	yellow-brown, 1 rib
430	1511	1	1	pale green
431	1511	1	1	blue-green
432	1511	1	1	colourless, very thin
435	1511	1	1	pale green
437	1100	1	1	blue
442	1100	1	1	pale green
444	1100	1	1	blue-green
445	1100	3	3	blue-green
450	1100	4	4	blue-green
453	1100	4	1	pale blue
454	1100	19	3	3 separate vessels: 1] degraded (?burnt) fragment deep blue. 2] Light blue clear base fragment. 3] light blue clear narrow neck of unguent bottle or small flask
455	1100	13	5	1 blue-green; 3 pale green; 1 droplet waste
465	1618	2	1	polychrome blue/white
477	1011	4	1	pale green, handle
478	1061	1	1	blue-green
480	1362	1	1	pale green
489	1312	2	1	pale green
490	1312	1	1	colourless
497	1000	1	1	pale blue
500	1331	5	1	pale green; rolled-in rim
508	1025	1	1	pale blue
509	1444	1	1	colourless

511	1563	3	1	yellow-brown; abraded; 1 rib
512	1142	3	1	pale green
513	1142	6	1	pale green; neck-body angle of ?flask/jug
517	1363	9	3	pale green; 3 joining shards; base ?bowl; ribbed on base; wavy line on side
518	1027	1	1	colourless; degraded
520	1006	4	1	green
521	1016	4	1	colourless; poss window; poss not Roman
522	1016	1	1	green; degraded
523	1016	3	1	green; degraded
524	1001	15	1	blue-green; prismatic bottle
527	1548	3	1	pale green
531	2038	1	1	colourless; fire-rounded rim
569	2099	1	1	yellow-brown; 1 rib
572	2099	1	1	blue-green
576	2099	2	2	colourless
582	2100	4	1	Polychrome (blue with white, yellow and brown) fragment from a pillar-moulded bowl C1st
587	2168	5	4	Decorated with etched fish desing
588	2099	1	1	colourless small fragment unidentified
596	2187	1	1	colourless small fragment unidentified
599	2189	11	1	Rolled rim edge - jug. Translucent
601	2189	3	2	colourless; tubular ?rim
602	2184	3	1	blue-green; tubular rim 'doubled'
613	2185	1	1	colourless small fragment unidentified
615	2222	9	2	blue-green; 2 joining shards handle
627	2199	2	1	pale green poss window
633	2183	1	1	colourless; abraded
634	2230	8	1	pale green
636	2240	4	2	blue-green; base frags

637	2102	4	1	Pulled out spout from jug, rolled rim edge, Translucent slightly white
638	2262	9	1	pale green concave base
640	2280	1	1	colourless fragments unidentified
641	2280	1	1	colourless
643	2281	2	1	colourless, thin
644	2281	4	1	colourless, thin
645	2280	2	1	colourless, thin
646	2280	2	1	colourless
648	2308	5	1	pale green, rod handle
650	2280	12	1	colourless
676	9999	5	1	colourless ribbon handle
689	2001	3	1	colourless w/ white within; degraded; pronounced vertical rib pinched into projections
749	1235	1	2	1 blue-green ?handle fragment; 1 yellow-brown fragment unidentified.
750	1384	4	3	Colourless.
752	2009	5	1	Brown; degraded; probably not Roman. Post-medieval?
753	1100	1	1	pale green
754	1206	1	1	colourless
755	9999	1	1	colourless; thin; bottle/jar/flask neck
756	9999	1	1	colourless
757	9999	1	1	colourless; 1 rib
758	9999	4	2	green
759	9999	1	1	colourless
760	9999	3	1	polychrome; bottle/jar/flask neck
773	2375	2	1	colourless, thin
774	2230	1	1	colourless, thin
779	2225	1	1	colourless, 2 ribs
781	2374	2	1	pale blue
782	2334	1	1	colourless

784	2308	1	1	yellow-brown
785	2308	1	1	colourless
810	4030	26	1	blue-green; prismatic bottle base, decorated with 2 concentric circles with joining radiate bar
818	4112	1	1	colourless, very thin, possible rim
823	4126	1	1	Colourless, rolled-out rim?
836	4163	1	1	blue-green
837	4111	1	1	colourless; fire-rounded rim
838	4094	4	1	pale blue-green
858	7001	4	2	degraded
864	4161	1	2	Colourless, thin.
5038	4007	3	1	blue-green; tubular rim
5049	4030	15	1	Colourless; base?
5053	4030	1	1	green; 4 ribs
5075	4030	1	1	green; 1 rib
5101	4030	1	1	Colourless fragment.
5137	4030	2	1	colourless; tubular rim
5141	4030	1	1	pale green
5143	4030	1	1	pale green
5165	4030	1	1	colourless, thin
5166	4031	7	1	colourless, small ?pad base ring
5323	4038	4	1	pale green; 3 dark green raised dots
5363	4030	1	1	colourless
5366	4030	1	1	colourless
5378	4038	1	1	blue-green rim shard
5398	4030	1	1	colourless, thin
5404	4038	3	1	blue-green
5415	4030	1	1	colourless, thin
5427	4030	4	1	blue-green, base ring

5449	4112	17	1	?waste
5461	4094	18	17	colourless, thin, 1 rim
5465	4041	1	1	pale blue-green, 1 rib
5480	4097	1	1	colourless
5492	4060	1	1	colourless, very thin
5501	4055	2	1	pale green
5538	4112	1	1	colourless
5539	4094	1	1	colourless
5540	4094	1	1	colourless
5564	4232	12	1	blue green prismatic bottle
5588	4030	9	1	Pale green clear; handle fragment (2 vertical ribs) - lower attachment
5654	4274	4	1	blue-green; closely-spaced ribs on one side; rounded rim
5655	4275	7	1	colourless, thin
5660	4280	1	1	blue-green
5661	4002	1	1	colourless, fire-rounded rim
5670	4306	3	1	?
5699	4030	1	1	pale green

Window Glass

Non-vessel glass includes several flat fragments that are interpreted as window glass. Some have thumbbed edges and typical matt-glossy surfaces.

Object No	Layer	Weight	Count	Description
	2051	3	1	
98	1100	11	1	matt-glossy, thumbbed edge
134	1043	13	1	matt-glossy
135	1043	12	1	thumbbed edge
156	1062	7	1	matt-glossy
190	1126	3	1	matt-glossy
202	1100	6	1	matt-glossy
269	1100	15	1	matt; thumbbed edge

270	1100	15	1	matt
467	1619	23	1	matt-glossy
504	1027	4	1	matt-glossy

Beads

The fourteen beads include three melon type, seven plain circular-section, two short oblate and two circular-section segmented examples.

Object No	Layer	Weight	Count	Description
367	1342	3	1	melon bead
494	1043	3	1	melon bead
649	2308	1	1	blue; circular-section segmented bead 7mm long
672	2001	1	1	blue-green; circular-section segmented bead 7mm long
842	4194	1	7	2 colourless short oblate & 5 green long plain circular section beads from sample 3101A (5 bone also)
5554	4194	1	1	1 green standard plain circular section bead
5557	4194	1	1	1 green standard plain circular section bead
5697	1009	2	1	melon bead

Counters

Three plano-convex pieces are interpreted as counters. Each is apparently black, and the pieces range from 9mm – 27mm in diameter.

Object No	Layer	Weight	Count	Description
226	1061	2	1	14mm diameter; degraded; all ground; opaque (dark brown/black)
338	1100	1	1	9mm diameter; degraded; all ground; opaque (dark brown/black)
502	1028	5	1	approx half large counter c27mm diameter; degraded; all ground; opaque (dark brown/black)

Slag

The only indications of possible industrial activity are four pieces of droplet waste, a single piece of glass slag, and a probable moile. However, none of these pieces came from contexts that can be interpreted as industrial, and their presence may be the result of accidental inclusion or the melting of glass in unintended fires.

Object No	Layer	Weight	Count	Description
145	1390	3	1	blue-green; small abraded blob
165	1100	2	1	blue-green; small abraded blob

297	9999	1	1	glass waste slag.
434	1511	14	1	large irregular droplet waste
479	1362	6	1	droplet waste
481	1127	2	1	blue, some transparent areas; probably a moile

Stirring Rod

A fragment of a stirring rod had a tapering circular cross-section, and internal loose spiral decoration.

Object No	Layer	Weight	Count	Description
751	9999	4	1	Fragment of stirring rod - use with cosmetics; tapering circular cross-section, 43 mm long (min.), 5-7 mm diameter. Internal loose spiral decoration. Pale green clear. Context given as 'in mortar layer?'

Uncertain

Object No	Layer	Weight	Count	Description
	1061	1	1	
	1390	7	1	
	2051	2	1	
	9999	9	7	
554	2056	3	1	pale green; tubular fragment
841	4143	1	1	colourless, very thin

2. Catalogue of worked bone

A total of 44 pieces of worked bone was recovered. The material is summarised below:

Find type	Number
Needles	1
Hairpins (including shaft fragments)	37
Counter	1
Peg	1
Ligula?	1
Uncertain	4
Total	44

Counter

A single gaming token indicates recreational activities on site.

Object No	Layer	Weight	Count	Description
563	2013	2	1	Crummy 1983, type 2 (Kenyon's type B). 1 flat smooth surface, obverse with 5 concentric grooves surrounding a lathe center. 23 mm diameter, 2 mm thick. Romano-British.

Needles

Only a single needle was found, most likely associated with the working of textiles. Manufacture is not attested, and it is therefore possible that the needles were used and disposed of in either domestic or industrial contexts. The piece was recovered from a post-Roman context, and the type is generally considered to occur in throughout the Roman period (Crummy 1983, 65-7).

Object No	Layer	Weight	Count	Description
5	1000	2	1	head & upper shaft of Type 1a needle

Hairpins

Hairpins would seem to be incontrovertibly domestic objects (of personal adornment or dress), unless they were being manufactured on site. There is no definite evidence of any *in situ* bone working, beyond the expedient re-sharpening of broken objects and some unclassifiable bone objects with polish and incisions. Two bone pins have been exquisitely carved one with a female bust and *corona muralis* (ON 188) and the other a cherub or Amor (ON 49) (*SL* frontispiece and Fig. 30). These would have been comparatively valuable pieces, reflecting a relatively high status occupation. We are grateful to David Bartus for the following comments on these pins:

These pins belong to a very rare group of Roman hairpins, and parallels for them are limited. However similar female figure pins have been found in Gross-Gerau, dating to the 1st century – beginning of the 2nd century (Hanel 1993, 65, Abb. 3-4) and Chichester (Down 1989, 213, no. 20., fig. 27.14.20). There are a number of parallels for the Amor pin, including examples from Athens (Burr-Thompson 1971, fig. 27), Mursa (Osijek, Serbia) was found in 1874 (Vikić-Belančić 1948, 41-43, Sl. 3.b), and a 3rd century example from Dura-Europos (Rostovtzeff 1952, 125, pl. XXII,1; Kleiner and Matheson 1996, 162, No. 113). There are also metal parallels including a silver one from Pompeii (d'Ambrosio De Carolis 1997, 27, N. 1., Tav. I.1). These hairpins have clear hellenistic sculptural roots, and are very rare in the Roman provinces. Among the bone hairpins, the Dorchester example is of very high quality which raises the question that whether this hairpin was locally made or imported.

The dating of many hairpins is not secure (Crummy 1983, 19-25) and the examples from Dorchester span the Roman period, with a slight preponderance in the 2nd and 3rd centuries. A further 22 haft fragments came from either hairpins or needles.

Item 337 is enigmatic. Its form is similar to a hairpin or needle, but the head is flattened and bears a shallow hollow in one face where matter has been carefully excised. The piece is clearly complete and has been used, and may be an example of a utensil more commonly found in metal, such as a ligula or ear-scoop.

Object No	Layer	Weight	Count	Description
49	1001	6	1	Elaborately decorated - winged cherub seated on rocks above acanthus leaves. Tapering highly polished circular shaft. Broken. 96 mm long (min.)
51	1001	1	1	lower shaft of pin/needle polished
53	1001	1	1	lower shaft of pin/needle polished
82	1001	1	1	lower shaft of pin/needle polished
188	1027	4	1	Elaborately decorated - female head with a turreted crown (poss SIBLI). Tapering highly polished circular shaft. Broken 90 mm long (min.)
218	1137	1	1	mid shaft of pin/needle polished
337	1100	1	1	
402	1340	1	1	lower shaft of pin/needle
404	9999	1	1	mid shaft of pin/needle
516	1084	1	1	upper shaft fragment of ?type 2 hairpin - transverse groove beneath head
541	2001	1	1	mid shaft fragment pin/needle – polished
562	2073	1	1	head & upper shaft of Type 3 hairpin, broken & crudely resharpened
577	2011	1	1	mid shaft fragment pin/ needle – polished
585	2104	1	1	lower shaft of pin/needle
586	2155	1	1	mid shaft fragment of pin/needle
589	2175	1	1	mid & lower shaft fragments of pin/needle (don't join) polished
605	2197	2	1	context number may also be 2165. Rough out discarded during manufacture. Shank broken 38 mm long (min.)
691	2001	2	1	mid shaft fragment pin/ needle – polished
706	2001	1	1	mid shaft fragment pin/ needle – polished
708	2001	1	1	mid shaft fragment pin/ needle – polished
720	7001	1	1	head and upper shaft fragment of type 5 hairpin
5000	4007	1	1	lower shaft of pin/needle – polished
5239	4030	1	1	mid shaft of pin/needle polished
5416	4061	3	1	Crummy 1983, type 2 - C1 st - 2 nd AD. Conical head with triangular grooves - like a pine cone. Complete. Shaft circular in cross-section and tapering. 94 mm long
5462	4094	2	1	mid shaft of pin/needle
5468	4110	2	1	mid shaft of pin/needle polished
5491	4216	2	1	Crummy 1983, type 3 - most are late C3 rd – 4 th . Broken. 43 mm long (min.)

5516	4163	1	1	lower shaft of pin/needle polished
5536	4112	1	1	head & upper shaft of type 6 hairpin
5537	4184	1	1	lower shaft of pin/needle polished
5556	4195	2	1	head & upper shaft type 3 hairpin
5565	4234	2	1	Crummy 1983, type 3C - late C3 rd - 4 th . Circular shaft narrowing just beneath head. Broken. 53 mm long (min.)
5566	4234	1	1	mid shaft of pin/needle polished
5570	4234	1	1	lower shaft of pin/needle polished
5574	4237	2	1	Crummy 1983, type 5. Oval cross-section, conical head with 3 reels beneath; tapering shaft. Broken 68 mm long (min.) Late C4 th .
5653	9999	3	1	Head & upper shaft of type 2 hairpin. spoil from pit 4230
5656	4276	1	1	head & upper shaft type 3 hairpin

Tools

Item 55 is a possible peg, but the piece is crude and possibly unfinished, and cannot be identified to type. Crummy (1983) suggests uses such as styli, awls, or domestic implements possibly used as meat skewers, eating utensils or pins.

Object No	Layer	Weight	Count	Description
55	1001	2	1	lower shaft of ?peg
525	1342	3	1	Uncertain. Shaped to a point at the distal end & areas of polish along the shaft.

Uncertain

The remaining items include two unclassifiable bone objects with polish and incisions, and a roughly shaped fragment which may be an offcut or an unfinished pin, needle or peg. These three pieces are the only evidence to suggest bone working on the site.

Object No	Layer	Weight	Count	Description
491	1362	10	1	Mid shaft of ovicaprid right radius. Areas of polish on upper surface; lower surface has 2 incised lines forming 'X'
506	1027	9	1	Mid section or rib. One surface scored & polished
555	2069	2	1	Roughly shaped fragment - possibly an offcut or unfinished pin/needle/peg?
5548	4184	1	1	Probably not worked. Modern?

3. Catalogue of shale

A total of 96 pieces of shale was recovered, summarized below. No attempt has been made to distinguish between types of shale or between shale and jet.

Type	Number
Armlet fragments	20
Tray/table fragments	11
Vessel fragments	7
Lathe cores	4
Miscellaneous and unworked fragments	54
Total	96

Armlets

Armlets occur with D-shaped, circular, ovate and irregular profiles. Sizes have not been estimated, but the obvious range suggests either that both sexes and all ages wore these ornaments or that they may have been worn on ankles and wrists as well as arms. Most (14) are plain; decorated examples include horizontal grooving (3), plain raised bands (1) or bands decorated with notches (1), or opposed notches on one pair of angles (1). Shale bracelets are common finds, and are likely to be relatively locally-manufactured, with Kimmeridge being the likely raw material source.

Object No	Layer	Weight	Count	Description
12	1000	2	1	plain
54	1001	7	1	plain
104	1011	7	1	plain
107	1025	7	1	notched along raised cordon around circumference
112	1027	9	1	plain
137	1043	10	1	plain
290	1172	8	1	flanged
398	1363	13	1	plain
405	1441	21	1	longitudinal grooves
482	1310	20	1	plain
526	9999	4	1	fragment - longitudinal groove
532	2038	8	1	fragment - weighed with packing - longitudinal grooving
535	2001	6	1	fragment - weighed with packing - plain
581	2106	6	1	plain fragment - weighed with packing
603	9999	3	1	plain
679	2001	7	1	plain fragment - weighed with packing

696	2030	7	1	Plain fragment - weighed with packing
828	4163	4	2	2 joining fragments, opposed notches
5695	2001	2	1	Plain

Fragments

Most of the fragments are plain and unidentifiable. Several otherwise plain fragments have random scoring, incision or cutting on one or both surfaces and may have been used in food preparation (as trenchers) or in craft processes. Two fragments are crudely decorated: one (with a fragmentary perforation in what may have been the centre) has a crude 'ladder' design around it; the second has a crude chevron design.

Object No	Layer	Weight	Count	Description
102	1009	196	1	worked
114	1027	17	1	Laminated fragment - random cut marks. Underside of board?
169	1101	51	1	unworked
258	1322	1086	1	Laminated fragment - random cut marks. Underside of board?
321	1271	283	1	worked
451	1100	100	1	Laminated fragment - random cut marks. Underside of board?
452	1100	191	1	Laminated fragment - random cut marks. Underside of board?
483	1310	18	1	worked
484	1342	22	1	Laminated fragment - random cut marks. Underside of board?
485	1027	99	1	Laminated fragment - random cut marks. Underside of board?
488	1061	7	1	Graffiti? Portion of crude circular 'ladder' design. Piece is perforated centrally?
492	1389	22	1	Laminated fragment - random cut marks. Underside of board?
505	1027	4	1	unworked
547	2042	13	1	unworked - weighed with packing
592	2165	16	1	flat worked piece - weighed with packing
693	2001	912	2	Unworked?
704	2030	7	1	plain worked fragment weighed with packing
812	4030	6	1	worked fragment, degrading

825	4055	7	1	worked fragment, degrading
843	4341	385	14	unworked
5692	1207	13	2	unworked; dry
5693	1307	5	1	unworked; dry
5694	1027	15	1	unworked; dry
5696	2022	105	2	unworked

Lathe cores

The lathe cores and large fragments of unworked shale suggest that manufacture of shale objects took place on the site.

Object No	Layer	Weight	Count	Description
59	1001	10	1	
109	1027	12	1	
5376	4030	26	1	
5528	4155	11	1	weighed with packing

Trays/tables

The 11 table or tray fragments are from rectangular examples, with the possible exception of item 487, which may have been circular. Some are decorated, generally with borders of incised lines, and sometimes with concentric circles around central dots. Some examples have no lip at the edge; others have a beaded lip, and others a marked turn. Trays are usually dated to the late 1st or early 2nd centuries (Biddle 1967). Item 5527 is a large portion of a table.

Object No	Layer	Weight	Count	Description
366	1338	806	1	decorated with incised lines
486	1061	18	1	Corner of possible tray. 3 incised lines form border, within are 2 circles concentric around central dot & a fragmentary design with horizontal incised line & circle. C1 st -2 nd AD?
487	1000	22	1	Tray? Possibly circular. Raised lip.
800	2104	37	5	4 plain fragments, 1 with groove & beaded edge. s/f 801 from same
801	2104	34	1	1 fragment with groove & beaded edge. s/f 800 from same
5527	4155		2	Table. Not weighed

Uncertain

Object No	Layer	Weight	Count	Description
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Object No	Layer	Weight	Count	Description
	1207	1	1	?
765	4210	20	1	?
830	4030	124	7	unworked fragments
839	4094	17	1	unworked
840	4056	7	1	unworked
846	4243	50	1	unworked
5445	9999	120	1	incised chevron pattern between lines, fairly crude
5702	1101	68	1	

Vessels

The vessel fragments derive mostly from bowls, at least one of which was lathe turned. One large piece is from a platter with foot ring base. One sherd is from a more complex vessel: the piece is ornamented, and the ring and dot 'decoration' may in fact be marking out for the cutting of the complex rim form.

Object No	Layer	Weight	Count	Description
498	1207	6	1	ornamented sherd - decoration mostly relief; circles around central dots may be marking-out of shape rather than decoration
804	4007	10	1	plain bowl & rim fragment
811	4030	7	1	fragment of small bowl, 2 encircling grooves on outer. lathe turned
866	4306	1	1	dry - from sample 3115 - vessel rim
5295	4030	136	1	platter foot ring - weighed with packing
5406	4030	20	1	bead rim fragment
5669	4306	16	1	plain fragment - weighed with packing

4. Catalogue of stone

Whetstones

Object No	Layer	Weight	Count	Description
87	1005	63	1	
694	2001	92	1	
776	4150	236	1	hone

Object No	Layer	Weight	Count	Description
795	2001	90	1	
805	4007	84	1	
868	1001	30	1	

Rubbers

Object No	Layer	Weight	Count	Description
	4226	293	2	Possible polishing/rubbing stones
115	1027	276	1	
519	1006		1	
767	4150	127	1	Polishing stone?
844	4121	6	1	
867	2165	312	1	possible rubbing stone

Querns

Object No	Layer	Weight	Count	Description
	1127	1424	2	Greensand quern fragments.
	4152	136	1	Gritstone quern fragment.
222	1146	10444	6	
5530	4155	23000	1	

Mortars

Object No	Layer	Weight	Count	Description
105	1217		1	Mortar dish
331	1307	927	1	Mortar (<i>SL</i> Fig. 59)
503	1006		1	fragment
822	4126	267	1	mortar
869	2197	122	1	Purbeck limestone? Mortar base and part profile

Counters

Object No	Layer	Weight	Count	Description
199	1217		1	
590	2175	3	1	

Object No	Layer	Weight	Count	Description
597	2183	3	1	
5535	4178	2	1	
5568	4234	4	1	

Styli

Object No	Layer	Weight	Count	Description
90	9999	1	1	

Architectural fragments

Object No	Layer	Weight	Count	Description
	1002	271500	415	All roof tile fragments. 2 complete lengths retained
	1043	2400	3	3 limestone tile fragments from bag marked 1000's & 1043 mixed - discarded
	1081	2871	1	Floor tile/board?
	1100	1200	2	Roof tile fragments
	1217	2171	23	limestone roof tile - horribly fragmented so discarded
	2001	266	1	Floor tile/board fragment.
	2174	2039	9	tiles
	4126	5970	1	roof tile
	4171	6150	2	roof tiles
185	1107	13663	16	worked stone block
386	1305	5000	1	architectural fragment
387	1305	17000	1	rectangular block

Basins

Object No	Layer	Weight	Count	Description
385	1305	9000	1	bowl/basin fragment
540	2001	512	1	stone vessel

Tesserae

Object No	Layer	Weight	Count	Description
	1000	408	19	Tesserae - 6 (114g) Purbeck limestone; 13 (294g) Lias limestone. All large size - approximately 20 mm square
	1025	10	1	Tessera

	1027	41	3	Tesserae
	1028	110	6	Tesserae
	1072	46	1	Tessera
	1157	7	1	Tessera
	1347	807	107	Tesserae
	2001	1780	72	Tesserae; x1 limestone fragment. Discarded
	2004	689	27	Tesserae
	2013	97	5	Tesserae
	2015	682	25	Tesserae
	2016	1932	235	Tesserae - large & small. NB: ceramic Tessera filed in same bag
	2022	1000	10	Tesserae (large) discarded
	2025	1029	38	Tesserae
	2026	856	301	Tesserae
	2027	2238	134	Tesserae
	2047	940	272	Tesserae
	2051	77	5	Tesserae
	2052	37	1	Tessera
	2059	17	1	Tessera
	2069	2555	101	Tesserae
	2073	2572	103	Tesserae
	2080	754	45	Tesserae
	2082	62	2	Tesserae
	2099	3	1	Tessera
	2103	7	2	Tesserae
	2106	43	10	Tesserae
	2107	368	25	Tesserae
	2115	3016	109	Tesserae

	2117	4292	189	Tesserae
	2119	2214	80	Tesserae
	2121	2746	150	Tesserae
	2140	6	1	Tessera
	2165	118	3	Tesserae
	2184	19	1	Tessera
	2240	6	1	Tessera
	4104	29	1	Tessera
	7001	4667	1070	Tesserae and manufacturing flakes

Miscellaneous

Object No	Layer	Weight	Count	Description
	1000	2360	105	from bag marked u/s road AR
	1000	5168	33	from unmarked bag
	1000	197	2	1 @ 156g from unmarked bag
	1001	83296	156	
	1006	32	2	
	1007	11589	45	
	1009	28	1	
	1011	698	3	
	1011	4022	12	
	1011	2058	3	
	1018	75	1	
	1019	465	6	
	1023	24	1	
	1025	464	1	With iron nail? In jointing hole
	1025	689	4	tile with nail hole
	1027	327	4	

	1028	1068	1	
	1029	48	1	
	1033	5	1	
	1035	293	2	
	1046	493	3	
	1048	1331	2	
	1055	227	4	
	1061	2002	11	crumbs of shelly limestone - discarded
	1061	218	21	Niedermendig retained
	1070	168	1	
	1072	405	2	
	1076	2575	4	
	1083	377	2	
	1086	187	2	
	1090	23	1	slate - discarded
	1091	364	1	
	1101	1283	4	
	1105	208	3	
	1138	219	1	
	1143	958	4	
	1164	909	3	
	1169	1348	1	
	1172	4331	8	
	1176	202	1	shelly limestone
	1189	192	1	
	1207	204	1	
	1217		1	

	1296	81	1	
	1310	202	2	
	1342	41	1	
	1383	112	2	
	1390	30	1	
	1404	738	2	
	1419	9993	16	
	1436	9287	8	
	1466	257	1	
	1492	1540	2	
	1510	1794	4	
	1563	150	1	burnt limestone
	2015	70	3	
	2022	184	8	
	2030	649	9	
	2036	332	11	
	2038	144	2	
	2069	26	1	slate
	2071	11	1	
	2073	335	5	
	2073	95	1	
	2075	6031	13	includes Tesserae
	2075	38	1	
	2101	66	1	
	2102	585	3	
	2104	148	6	
	2105	189	2	

	2156	126	1	
	2159	3	1	
	2160	202	1	
	2164	24	2	
	2176	105	1	
	2182	26	3	
	2183	331	20	Tesserae & Niedermendig fragments
	2189	266	4	
	2203	198	4	
	2315	18	1	
	2372	1010	1	
	2404	6	1	
	3127	2054	9	
	4006	397	1	
	4007	2197	8	
	4030	3359	23	
	4031	23	1	
	4034	69	2	
	4038	1080	13	
	4040	2246	4	
	4043	541	1	
	4046	298	2	
	4055	741	1	
	4061	1881	9	
	4062	1603	2	
	4064	42	2	
	4067	10	1	

	4070	30	1	
	4071	68	2	
	4073	540	2	
	4075	790	7	
	4081	600	1	
	4098	509	1	
	4118	602	3	
	4121	343	1	
	4129	393	2	
	4131	35	1	
	4133	314	1	
	4143	55	1	
	4147	3081	6	
	4148	517	4	
	4150	200	5	
	4151	262	1	sandstone
	4154	34	1	
	4155	62	6	
	4163	899	15	
	4165	688	8	
	4174	62	6	includes Slate
	4175	444	7	
	4182	465	2	
	4184	728	2	
	4186	735	2	sandstone
	4187	421	8	
	4194	20	3	

	4202	201	3	
	4227	1022	3	
	4229	21	1	
	4234	163	9	
	4275	397	1	
	4279	34	1	bag marked '4279-4283 inclusive'
	4282	49	2	
	4289	270	2	
	4298	325	2	
	4334	186	1	
	4342	195	2	
	7001	18825	28	retained 4 @ 3104g
	7001	1080	2	
	7003	3958	2	
	9999	3000	1	
94	1011	171	1	
293; 474	9999	6710	2	
448	9999	1064	1	
561	2001	28	1	disc
642	2280	3	1	Worked stone object
777	2165	45	1	worked/clipped stone disc

5. Catalogue of metalwork

Copper alloy

A total of 135 copper alloy objects (excluding coins) was recovered, these are summarised below:

Type		Number
Brooches		
	Colchester and derivative	4
	Hod Hill	3
	Hinged strip-bow	1
	Plate-on-bow	2
	Disc	1
	Penannular	3
	Fragments	3
Brooch pins		
	From sprung brooches	3
	Hinged	1
	Probably from brooches	1
Hairpins		2
Armlets		10
Finger rings		13
Miscellaneous jewellery		3
Nail cleaners		3
Tweezers		5
Probe		1
Spatula?		1
Needle		1
Cutlery		4
Wire		3
Perforated strips		4
Other objects		9
Miscellaneous fragments		54
Total		135

Items of personal adornment

a. Brooches

A total of 22 brooches, brooch pins or fragments were recovered. In terms of dating the Colchester and Colchester derivatives are likely to be from the mid-1st century AD, while the Hod Hill and hinged strip-bow examples are 1st century. The plate-on-bow (*SL* Fig. 54) examples are probably 2nd century. Item 52 is paralleled almost exactly by brooch number 117 from Wanborough (Butcher 2001, 60, fig. 25), where other parallels are listed. The penannular examples all have turned-back terminals, and are also probably 1st century. The disc brooch is most similar to 3rd century examples (*SL* p.46).

b. Hairpins

Item 49 is a Knob-on-cordon-headed pin (Cool's Group 2A: 1990, 154). Cool gives parallels from 2nd century contexts in Dorchester, but notes occurrences throughout the Roman period from southern Britain (*ibid.*).

Item 538 is a glass-headed pin (Cool's Group 16); the head appears to be a separately made bead fitted onto the shank. Cool argues for a 4th century date.

c. Armlets

Of the 10 armlets seven are wire. 5377 is a single strand example that does not appear to be twisted. The other six are of cable type of two or three strands.

Of the remaining three examples, one is plain, with expanded slightly flattened terminals. A second is flat and decorated with a single row of punched dots. One terminal is missing, but the surviving one has a small eye surrounded by incised lines. The third fragment has multiple motifs, with alternating longitudinal and transverse subdivided panels.

The armlets probably date to the late 3rd or 4th century.

d. Finger rings

Five rings (three complete; two fragmentary) are entirely plain D-sectioned examples. These are not always finger-rings, but some have been found on skeletal digits (Crummy 1983, 45).

Decorated examples include 5560, which has continuous transverse grooves. This ring is very thin and uniformly circular and is possibly not a finger ring, although it is not unlike ring 93 from Wanborough (Hooley 2001, 90), dated to the 4th century AD plus.

There are two rings with intaglios of translucent dark blue glass. 5562 has a rudimentary human figure; 122 is not distinguishable – in form it is of the common simple expanded bezel type and probably dates to the 1st or early 2nd century (Henig 1998, 26).

Item 32 is a single strand wire ring with a coiled bezel wrapped in 12 turns around the ends of the ring curves (*SL* 54). Item 284 has expanded shoulders with transverse grooves and an ovate bezel, while item 5305 is a double strand cable ring. The ends (which are damaged and partially missing) may have been twisted into running loops to form decorative top. Item 5525 is a fragment of the top of a ring with plain raised bezel. Item 5555 is very small and fragmentary. It has one possibly zoomorphic end.

Object No	Layer	Weight	Count	Description	Type
6	1027	8	1	armlet fragment	Armlet
7	1027	3	1	brooch fragment	Brooch
32	1027	3	1	double-twist	Ring
52	1001	5	1	plate; enameled	Brooch
58	1001	4	1	twisted wire	Armlet
71	1001	3	1		Ring

76	1001	2	1	brooch pin	Brooch
117	1027	14	1		Brooch
121	1043	7	1		Bracelet
122	1043	7	1	enameled	Ring
138	1000	2	1	fragment	Ring
148	1027	19	1		Brooch
152	1061	3	1		Brooch
211	1061	1	1	fragment	Brooch
260	1215	1	1	fragment	Brooch
261	1215	1	1	pin fragment	Brooch
284	1228	1	1		Ring
307	1180	7	1		Brooch
325	1310	3	1		Brooch
359	1311	2	1	fragment of clasp pin	Brooch
396	1100	1	1	brooch clasp fragment	Brooch
407	1451	16	1		Brooch
457	1100	5	1		Brooch
458	1100	3	1		Ring
461	1100	4	1		Brooch
462	1100	7	1		Brooch
470	1442	5	1		Brooch
574	2099	1	1	brooch pin	Brooch
5008	4030	10	1	gilded disc brooch (<i>SL</i> p. 46)	Brooch
5046	4030	28	1		Bracelet
5052	4007	3	1		Bracelet

5054	4030	1	1	ring fragment	Ring
5055	4031	4	1		Bracelet
5130	4030	5	1	pin plate fragment	Brooch
5305	4030	3	1	twisted wire ?ring	Ring
5312	4038	2	1		Bracelet
5353	4043	1	1	pin	Brooch
5377	4043	2	1		Bracelet
5423	4075	8	1	fitting	Pendant
5504	4121	3	1		Brooch
5525	4140	2	1	ring fragment	Ring
5549	4142	4	1	twisted wire	Bracelet
5555	4194	1	1		Ring
5560	4231	1	1		Ring
5562	4232	4	1	glass intaglio	Ring
5689	4121	5	1		Ring

Bells

Object No	Layer	Weight	Count	Description
5426	4071	37	1	silvered metal ?harness bell

Boxes

Seal-box

Item 373 is a leaf-shaped seal-box very similar to that illustrated in Crummy 1983 fig 106 no. 2523 (*SL* p. 44). On the lid a leaf or heart encloses a roundel. There are spots in the roundel, on the leaf, and on the same axis on the outer field above in the centre of a second roundel. The outer field is green, the leaf red, and between the two a thin band of white metal, which also surrounds the inner roundel. The roundels are green. Probable dates are 2nd or 3rd century.

Object No	Layer	Weight	Count	Description
373	1342	13	1	enameled seal box

Chains, fittings, nails and other objects

a. Miscellaneous jewellery

Items 254 and 686 are small chain links that could be from a chain mesh object such as a purse (Crummy 1983, 53) or simply from a chain. Item 255 appears to be an eye fastening from a similar object.

b. Nails and studs

There were two nails. 852 has a globular or bun-shaped head, while 571 is flat-headed. Three studs are flat headed: one (459) is decorated with 9 dots around the edge, some linked diagonally by straight lines. Seven studs are convex headed. Six are plain: 333 has a central recess within which is a human head in profile and other indistinguishable signs.

Object No	Layer	Weight	Count	Description	Type
17	1027	6	1		Rod
79	1001	2	1		Rod
89	9999	4	1	from sewer trench fill	Stud
110	1027	1	1		Stud
113	1001	14	1		Rod
118	1027	3	1		Strip
140	1065	1	1	stud	Stud
158	1061	3	1		Strip
223	1127	2	1		Strip
250	1215	2	1		Strip
273	1172	2	1		Strip
333	1307	3	1	decorative	Stud
334	1307	1	1		Strip
336	1307	3	1		Stud
368	1342	1	1		Stud

380	1207	1	1		Stud
390	1305	9	1		Fitting
459	1183	1	1		Stud
565	2001	5	1		Strip
571	2099	1	1		Nail
606	2187	3	1		Stud
611	2204	1	1		Strip
670	9999	13	1	from clearance	Fitting
681	2001	8	1		Fitting
683	2001	5	1		Rod
686	2001	1	1	1 link	Chain
703	2026	3	1		Strip
709	2001	2	1		Strip
714	2001	2	1		Strip
799	2104	16	1		Strip
852	4013	2	1		Nail
5027	4030	3	1	2 articulated links	Chain
5028	4030	24	1	plumb bob	Weight
5078	4030	1	1		Stud
5177	4030	3	1	perforated strap end	Strip
5459	4030	1	1		Strip
5472	4140	1	1	perforated strap fragment	Strap
5476	4030	2	1	perforated, decorative strip	Strip
5490	4126	1	1		Wire
5691	4164	1	1		Strip

5700	2001	1	1		Loop
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Implement and handles

Cutlery

Three spoons were recovered. All have pear-shaped bowls. The bowl alone represents two, while the third complete example has an offset handle. Crummy (1983) dates similar spoons to the first half of the 2nd century. A fourth item (443) is a double-ended piece with a double prong at each extremity (*SL* 27). This item may be for eating, and could be for extracting molluscs from their shells.

Object No	Layer	Weight	Count	Description	Type
178	1001	4	1		Spoon
443	1511	10	1	?snail fork	Fork
553	2069	8	1		Handle
700	7001	26	1		Spoon
5701	4030	15	1		Spoon

Keys

Object No	Layer	Weight	Count	Description
48	1001	4	1	

Toilet Items

a. Nail Cleaners

Three examples are of Crummy's Type 1a (simple, more or less straight, flat, thickish shaft, suspension loop rises directly). Item 329 is complete and typical; 469 is short and of more sinuous form, and is enamelled; 559 lacks the distal end, but is probably a nail cleaner. These date from the mid to late 1st century, with survivals into the 2nd.

b. Tweezers

Four pairs of tweezers were recovered. Three are short, simple (pair 216 is decorated by longitudinal lines) and entirely typical. Pair 660 is more unusual, being more elaborately shaped and decorated, lacking the in-curving blade ends (coming instead to points) and being of a much more substantial manufacture. D-shaped in cross section, this item may be a forceps rather than a tweezers. There is no particular chronological implication to form (Crummy 1983, 58).

c. Other toilet or medical equipment

A single probe (537) was recovered. The piece is broken, but appears single ended. A single bent and broken object (5012) with a lozenge-shaped blade may be a spatula.

Object No	Layer	Weight	Count	Description	Type
216	1139	6	1	tweezers/clippers	Tweezers
329	1310	2	1	cosmetic/medical implement	Nail cleaner
469	9999	2	1	cosmetic implement - nail cleaner	Nail cleaner
537	2001	10	1	cosmetic/medical implement?	Probe
559	2075	1	1	cosmetic/medical implement	Nail cleaner
660	2001	17	1		Tweezers
697	2030	4	1		Tweezers
5012	4030	7	1	cosmetic/medical implement?	Spatula?
5431	4104	2	1		Tweezers

Needles and pins

A single object (705) is a Type 2 (flat spatulate headed) sewing needle. Crummy provides a 1st or 2nd century date for the type (1983, 65). The eye is sub-circular. There are 13 pins or pin fragments, some of which derive from brooches.

Object No	Layer	Weight	Count	Description	Type
83	1001	1	1		Pin
93	1009	1	1	brooch pin fragment	Pin
95	1009	1	1	brooch pin	Pin
116	1042	1	1		Pin
177	1061	1	1		Pin
495	1043	3	1	?enameled	Pin
533	2001	1	1		Pin
538	2001	6	1		Pin
543	9999	1	1		Pin
688	2002	1	1		Pin
692	2001	1	1		Pin
705	2001	2	1		Needle

5044	4030	1	1		Pin
5572	4143	1	2		Pin

Uncertain

Miscellaneous Objects

Amongst the miscellaneous objects are a perforated weight possibly from a plumb bob (5028) and a small knob which may be an armlet terminal. The unidentifiable fragments include thin possible pin shafts, flat strips, rod-like pieces, fragments and other waste.

Object No	Layer	Weight	Count	Description
65	1001	1	1	
66	1001	1	1	
68	1001	1	1	perforated fragment
77	1001	1	1	
80	1001	3	1	
91	1001	1	2	
147	1071	2	5	
151	1080	3	1	
157	9999	4	1	
212	1136	1	1	
234	1002	1	1	
244	1189	3	4	
247	1136	1	1	
254	1215	1	1	
255	1215	1	1	
257	1215	1	1	
259	1215	1	1	
301	1175	9	4	

365	1342	1	1	
408	1000	1	1	
446	1100	1	1	
575	2099	11	2	
578	2099	1	1	
600	2184	1	2	fragments
607	2190	4	1	
608	2199	1	5	fragments
609	2203	1	1	
616	2222	1	1	
623	2204	2	1	
651	2374	1	2	fragments
699	2001	20	6	fragments
711	2001	1	1	
712	2001	2	1	
857	7001	8	1	
5004	4030	14	1	
5039	4030	2	1	strip
5329	4030	3	1	
5448	4099	5	1	
5522	4164	1	2	Fragments
5659	4285	1	1	Fragment
5662	4118	1	1	
5668	4298	1	1	

Iron

A total of 1530 iron objects and fragments were recovered, of which 1282 are nails or unidentified fragments, 248 objects being summarised below:

Type	Number
Brooch pin	1
Hobnails	22
Cleats	3
Harness fittings	7
Horseshoe	1
Tools	
Knives	8
Hammer	1
Chisel	4
Shears	1
Drill bit	1
Unidentified	6
Nails and tacks	8
Hinges	2
Keys and bolts	2
Miscellaneous fittings	15
Styli	3
Calthrop	1
Barrel hoop	1
Ring	1
Sheet iron objects	2
Miscellaneous objects	158
Total	248

Fittings, etc.

a. Hinges

One piece from 4195 has been tentatively identified as a hinge. It consists of a section of a riveted strip, and one detached tack or stud. A second from 4007 is part of a strap-hinge.

b. Keys and bolts

A piece from 4007 is probably a bolt, more likely to be from a door than a yoke bolt. A lever-lock key came from the same context. This piece has a rectangular bit and the bit end piped to fit over a pivot in the lock.

c. Miscellaneous fittings

A double-spiked loop came from 4161. The other 14 pieces are largely unidentifiable, but include possible reinforcing strips and some decorative pieces. Item 5515 from 4163 is probably a riveted barrel hoop. 546 from 2038 is a small ring (not a finger or earring, and probably structural rather than personal). 624 and 628 (both from 2204) are both sheet cut and/or perforated sheet iron objects of uncertain function or derivation. The remaining pieces are unidentifiable.

Object No	Layer	Weight	Count	Description	Type
63	1001	28	1		Disc
81	1001	39	2		Strip
124	1043	38	1		Fitting
150	1075	9	1		Strip
159	1073	25	2		Fitting
172	1105	24	1		Fitting
173	1105	45	1		Fitting
174	1089	75	1		Strip
323	1217	25	1		Fitting
413	1442	196	2		Fitting
415	1027	36	1		Fitting
546	2038	14	2		Ring
560	2038	19	1		Rod
567	2099	34	1		Fitting
570	2099	28	1		Fitting
573	2099	8	1		Fitting
610	2204	2	2		Rod
612	2199	13	1	riveted	Fitting
624	2204	255	1	perforated riveted sheet	Sheet
628	2204	215	5	riveted sheet	Sheet
632	2204	47	1		Fitting
673	2001	21	2		Fitting
674	2001	60	1		Fitting
675	2001	17	1		Strip

725	2001	94	2		Strip
726	2001	16	1		Strip
727	2001	8	1		Strip
729	2001	37	1		Fitting
731	2001	31	1		Stud
738	1001	70	1		Strip
743	1265	4	3		Strip
744	1011	5	1		Fitting
746	1001	45	1		Strip
780	2157	25	1		Fitting
786	4064	8	1		Strip
806	4007	108	1		Key
807	4007	111	1	?bolt	Bolt
808	4007	111	1		Hinge
820	4211	8	1		Strip
850	4195	44	2	riveted strip and stud	Hinge
851	4334	19	1		Strip
861	4040	46	1		Fitting
862	4040	94	1		Fitting
865	4161	39	1	double spiked loop	Loop
5131	4030	76	1		Fitting
5170	4031	29	1		Fitting
5364	4030	17	1		Strip
5391	4030	27	1		Fitting
5393	4030	47	1		Fitting

5510	4060	35	1		Strip
5513	4060	64	1		Fitting
5515	4163	106	11	with nail	Barrel hoop
5524	4166	225	1	perforated	Fitting
5671	4306	285	1		Fitting
5674	4316	110	1		Strip

Implements

a. Hammer

The single hammerhead (from 1043) most probably came from a metalworker's cross-pane hand hammer with a straight striking-face and an opposed rounded chisel edge at right angles to the haft.

b. Chisels

Two are probably metalworking chisels. One was recovered from 4060. A broken example from 4030 is probably a punch. Two much shorter and finer tools came from 1002 and 2001. These may be metalworking chisels, or alternatively carpenters paring tools.

c. Shears

One blade from a pair of shears was recovered from 1305. Both blade and handle are broken, but is unlikely that the complete piece was over 15cm long, placing the tool in Manning's Type 3, although the blade form is more similar to his illustrations of Type 2 (Manning 1985).

d. Drill bit

The single example came from 4030. The shaft is broken and the tip missing; only the bit head survives.

e. Styli

There were three styli. Two are of Manning's Type 1 (Manning 1985) and the third probably so, if it is indeed a stylus.

Object No	Layer	Weight	Count	Description	Type
131	1043	263	1		Hammer
230	1002	14	1		Chisel
360	1311	120	1		Tool
392	1305	6	1	?shears	Shears

566	2099	315	1		Tool
568	2099	333	1		Tool
671	2001	4	1		Chisel
730	2001	7	1		Stylus
797	2104	11	1		Stylus
817	4030	11	1	drill bit	Bit
849	4038	19	1	possible stylus/tool	Stylus
853	4030	27	1		Punch
5051	4030	60	1		Tool
5511	4060	79	1		Chisel
5512	4060	17	1		Tool
5529	4155	55	1		Tool

f. Knives

Near complete and fragmentary knives were recovered. Single Type 11a knives came from contexts 4118 and 4121; a Type 15 came from 2001 and a Type 16 from 4088. All are common long-lived types. Unidentified fragments came from 1043, 4031, 4121, and 4171.

Object No	Layer	Weight	Count	Description
123	1043	67	1	uncertain form
680	2001	65	1	
847	4171	35	1	6 pieces of a possible knife blade and tang
5168	4031	49	1	
5441	4088	31	2	?blade and ?nail
5463	4121	80	1	
5542	4121	56	1	
5675	4118	75	1	

Personal Items

a. Brooches

A single brooch pin fragment was recovered from 4322. It is not intrinsically dateable.

b. Footwear

A single hobnail was recovered from 4030, and 21 were recovered from 4165. This latter group may derive from a single sandal, shoe or boot, but the type cannot be determined. Three cleats probably derive from the soles or heels of boots (Manning 1985, 131), although Manning notes that they may also be wood fasteners.

Object No	Layer	Weight	Count	Description	Type
863	4322	1	1	pin only	Brooch
5040	4030	2	1		Hobnail
5383	4038	14	1		Cleat
5519	4163	6	1		Cleat
5546	4165	30	18		Hobnail
5658	4276	8	1		Cleat

Calthrop

A single piece from 4038 has been identified as a calthrop. Manning notes that these are not common finds: the single example in the British Museum is very like the Dorchester example in size, but has four spikes rather than three (the Dorchester piece may have lost one spike). The date of the British Museum example is not proven, although it is acceptable as Roman typologically (Manning 1985, 178).

Object No	Layer	Weight	Count	Description
5324	4038	11	1	

Animal transport

Seven pieces are tentatively identified as harness fittings. Five are rings, which could have a multitude of functions (Manning 1985, 140). Two are three-sided right angled pieces which could also be joiner's dogs. A single fragment of a horseshoe was recovered from 4064. As with examples from many other Roman sites the piece is not incontrovertibly of the period.

Object No	Layer	Weight	Count	Description	Type
762	4064	19	1		Harness fitting
783	2183	21	1		Harness fitting

5397	4030	10	1	harness fitting	Harness fitting
5430	4064	33	1		Horse shoe
5506	4060	39	1		Harness fitting
5508	4060	35	1		Harness fitting
5544	4121	48	1		Harness fitting
5561	4231	19	1		Harness fitting

Nails

Object No	Layer	Weight	Count	Description
	1000	170	20	nails; 1 @ 14g from bag marked u/s road AR discarded (length 60mm; round head diameter 15mm)
	1001	1002	167	nails
	1002	282	28	nails
	1006	42	5	nails
	1011	50	5	nails
	1016	15	2	nails
	1023	43	8	nails
	1025	122	13	nails
	1026	5	1	nail
	1027	141	28	nails
	1028	47	4	nails
	1033	8	1	nail
	1051	41	3	nails
	1056	26	2	nails
	1057	25	1	nail
	1061	215	35	nails

	1072	7	1	nail
	1073	12	1	nail
	1075	25	4	nails
	1084	30	1	nail
	1086	15	2	nails
	1093	54	5	nails
	1100	46	6	nails
	1101	26	3	nails
	1121	7	1	nail
	1127	46	7	nails
	1136	14	2	nails and fragments
	1138	6	1	nail
	1139	33	2	nails
	1142	10	2	nails
	1142	9	1	nail
	1144	35	2	nails
	1146	11	1	nail
	1153	5	1	nail
	1162	18	2	nails
	1169	5	1	nail
	1171	19	1	nail
	1172	250	20	nails
	1175	27	1	nail
	1186	7	2	nails
	1186	3	1	nail

	1187	199	10	9 nails and 1 object (?nail and washer)
	1189	23	4	nails
	1191	5	1	nail
	1193	23	1	nail
	1196	43	3	nails
	1203	32	2	nails
	1206	33	3	nails
	1207	71	3	nails
	1210	9	1	nail
	1217	84	11	nails
	1221	12	4	nails
	1271	24	3	nails
	1288	38	4	nails
	1291	11	1	nail
	1296	113	17	nails
	1310	92	17	nails
	1312	10	1	nail
	1342	33	3	nails
	1347	21	2	nails
	1362	11	2	nails
	1382	35	3	nails
	1384	4	3	nails
	1386	12	1	nail
	1390	25	3	nails
	1396	14	2	nails

	1404	26	1	nail
	1408	108	5	nails
	1417	22	9	nails
	1442	31	2	nails
	1481	10	1	nail
	1492	49	3	nails
	1509	6	1	nail
	1523	14	1	nail
	1530	15	1	nail
	1618	7	1	nail
	2001	651	80	nails
	2005	6	2	nails
	2009	11	2	nails
	2013	30	3	nails
	2015	27	4	nails
	2022	19	2	nails
	2025	58	10	nails
	2026	5	1	nail
	2027	16	2	nails
	2030	6	1	nail
	2036	25	5	nails
	2038	8	1	nail
	2039	9	1	nail
	2042	51	6	nails
	2047	70	5	nails

	2048	6	1	nail
	2051	11	1	nail
	2052	49	10	nails
	2057	15	1	nail
	2059	1	1	nail
	2067	8	1	nail
	2069	105	11	nails
	2071	23	3	nails
	2073	67	9	nails
	2075	80	10	nails
	2081	8	1	nail
	2098	8	1	nail
	2099	120	14	nails
	2100	93	8	nails
	2102	12	2	nails
	2104	331	43	nails
	2104	40	9	nails
	2105	35	5	nails
	2106	105	17	nails
	2107	53	8	nails
	2109	6	1	nail
	2115	6	1	nail
	2155	48	7	nails
	2156	4	2	nails
	2157	6	1	nail

	2159	7	1	nail
	2161	15	2	nails
	2162	10	1	nail
	2164	13	2	nails
	2165	182	29	nails
	2168	4	2	nails
	2175	38	3	nails
	2182	9	1	nail
	2183	234	30	nails
	2184	129	14	nails
	2187	16	2	nails
	2189	33	4	nails
	2191	10	1	nail
	2197	46	5	nails
	2199	9	1	nail
	2201	45	7	nails
	2203	15	2	nails
	2204	91	8	nails
	2211	8	1	nail
	2222	49	8	nails
	2230	7	2	nails
	2239	12	1	nail
	2240	23	4	nails
	2244	6	1	nail
	2271	8	1	nail

	2315	12	1	nail
	2320	25	3	nails
	2322	94	13	nails
	2333	2	1	nail
	2374	9	2	nails
	2375	3	1	nail
	2379	14	1	nail
	4007	164	8	nails
	4007	43	3	nails
	4030	418	44	nails
	4031	67	7	nails
	4038	135	12	nails
	4040	62	4	nails
	4043	16	1	nail
	4045	1	1	nail
	4055	7	1	nail
	4060	37	3	nails
	4061	85	10	nails
	4062	34	5	nails
	4064	27	1	nail
	4066	15	2	nails
	4067	18	1	nail
	4068	74	9	nails
	4075	3	1	nail
	4094	84	13	nails

	4107	6	1	nail
	4108	18	2	nails
	4112	41	4	nails
	4118	31	6	nails
	4119	40	5	nails
	4121	19	2	nails
	4126	69	9	nails
	4133	26	3	nails
	4139	19	1	nail
	4140	12	3	nails
	4143	49	6	nails
	4148	6	2	nails
	4150	22	2	nails
	4151	5	1	nail
	4152	5	1	nail
	4155	64	6	nails
	4163	59	10	nails
	4165	16	2	nails
	4175	32	2	nail
	4179	9	1	nail
	4182	18	1	nail
	4183	22	2	nails
	4184	82	7	nails
	4187	38	6	nails
	4188	9	1	nail

	4203	38	1	nail
	4210	10	1	nail
	4211	49	6	nails
	4226	9	1	nail
	4231	145	14	nails
	4234	58	9	nails
	4243	18	2	nails
	4255	17	1	nail
	4275	32	4	nails
	4276	32	4	nails & hob-nails
	4282	23	2	nails
	4287	22	2	nails
	4289	7	1	nail
	4295	6	1	nail
	4306	3	1	nail
	4309	10	1	nail
	4316	19	1	nail
	7001	25	5	nails
5512	4060	20	1	nail

Uncertain

Object No	Layer	Weight	Count	Description
	1043	77	5	
	1089	75	1	strip
	1105	72	7	
	2030	111	15	

	2174	48	11	
	9999	8	2	
	9999	11	2	
219	1087	4	1	
256	1215	180	1	
298	1215	30	6	
299	1215	30	1	
372	1342	57	1	
399	9999	65	1	composite object in several fragments
551	2051	110	13	
584	2107	5	1	
593	2065	75	1	
614	2204	87	1	
617	2203	42	4	
618	2203	25	1	
619	2203	6	1	
621	2203	13	2	
622	2204	33	1	
625	2204	28	1	
626	2204	34	1	
629	2238	22	1	
630	2238	53	3	
677	2001	9	1	
695	2001	93	7	
728	2001	43	1	

732	2001	27	1	
733	2001	16	1	
734	2001	9	1	
739	1310	15	2	
740	1136	27	8	
741	1061	80	5	
745	1549	77	1	
747	1027	20	1	
748	1136	5	2	
763	4064	45	1	
764	4064	99	1	
768	2036	2	2	
769	2030	2	2	
772	2204	3	1	
778	2165	31	1	
782	2190	14	2	
787	2190	14	2	
790	2102	34	1	
792	2069	3	1	
794	2104	26	1	
796	2104	35	1	
798	2104	16	1	
809	4071	16	2	
819	4174	6	1	
821	4211	11	1	

826	4118	5	1	
827	4183	1	1	
834	4031	11	1	
859	7001	14	1	
860	4070	10	1	
5116	4030	11	1	
5169	4031	213	1	
5394	4030	30	1	
5421	4030	6	1	
5466	4041	71	1	
5563	4231	250	1	
5581	2075	13	1	
5657	4285	32	1	
5672	4306	126	1	

Discussion

Few of the types recovered are chronologically distinct, either being forms that are not susceptible to dating or that are common throughout the Roman period. Some of the tools indicate particular activities: the hammer and chisels suggests metalworking in the vicinity of the site.

Lead

Eighty-one lead objects were found:

Type	Number
Weights	5
Implements	2
Miscellaneous objects	4
Unidentifiable fragments, waste	70
Total	81

a. Weights

The most numerous identifiable objects are weights. Two are large: object number 303 is biconical and weighs 1036g; object number 441 is an irregular rectangle with splayed ends weighing 984g (approximating to 3 *libra*). Three are small: object number 5024 is sub-conical and may have been attached to a rod or fitting at the base. It weighs 35g (approximating to 1¼ *uncia*). Object number 5029 is sub-cylindrical, with a grooved base. It weighs 111g (approximating to 4 *uncia*). Object number 5382 is a flat disc weighing 52g (approximating to 2 *uncia*).

Object No	Layer	Weight	Count	Description
303	1121	1036	1	
441	1100	984	1	
5024	4030	35	1	
5029	4030	111	1	
5382	4038	52	1	

b. Implements

Item 403 is a D-profiled perforated disc that may be a spindle whorl; object 292 is possibly part of a small handle.

Object No	Layer	Weight	Count	Description	Type
292	1228	7	1		Handle
403	1596	17	1		Spindle

c. Miscellaneous pieces

The single stud (ON 5543) has a plain pointed convex head. Object numbers 816 and 5157 are small curved bars. The remaining pieces include flat strips and sheets and rod-like pieces.

Object No	Layer	Weight	Count	Description	Type
433	1511	22	1		Sheet
507	1142	5	1		Strip
594	2174	50	1		Strip
620	2203	5	1		Strip
653	2001	38	1		Strip

666	2001	4	1		Disc
690	2001	11	1		Strip
713	2030	2	1		Strip
813	4030	13	1		Strip
816	4030	21	1		Rod
848	4075	28	1		Strip
5157	4030	13	1		Strip
5286	4030	75	1		Strip
5440	4088	23	1		Strip
5543	4121	3	1	lead alloy	Stud

e. Unidentified fragments and waste

Object number 406 consists of a pair of joined bars: one ends in a perforated terminal, through which the second has been inserted and curled around to form a loop.

Object No	Layer	Weight	Count	Description
155	1062	43	1	
282	1226	3	1	
283	1227	22	2	
306	1135	280	1	
322	1121	1046	1	
363	1310	5	1	
406	1441	38	1	
418	1100	4	1	
419	1100	10	1	
436	1100	19	1	
440	1100	8	1	
466	1619	39	1	

468	1620	8	1	
591	2165	5	1	
598	2183	10	1	
698	2001	24	1	
735	2001	10	1	
824	4175	13	1	
829	4030	12	1	
5079	4030	24	1	
5092	4030	35	1	
5144	4030	12	1	
5160	4030	5	1	
5161	4030	56	1	
5164	4030	23	1	
5287	4030	208	1	
5297	4038	5	1	
5298	4038	6	1	
5299	4038	22	1	
5308	4030	92	1	
5309	4030	190	1	
5318	4030	23	1	
5331	4030	23	1	
5348	4030	22	2	
5351	4030	5	1	
5369	4030	11	1	
5396	4030	48	1	

5419	4064	39	1	
5424	4075	11	1	
5467	4041	7	1	
5518	4163	178	1	
5541	4094	10	1	
5547	4155	170	1	
5558	4224	11	1	lead alloy
5567	4234	11	1	lead alloy
5667	4237	480	1	
5954	4030	9	1	

Waste

Object No	Layer	Weight	Count	Description
8	1027	3	1	
24	1001	7	1	
180	1100	71	1	
335	1307	17	1	
422	1484	21	1	
499	1142	8	1	
529	1484	16	2	
814	4030	18	1	
815	4030	7	1	
832	4041	11	1	

Silver and gold

Object No	Layer	Weight	Count	Description	Type
72	1001	7	1	?spoon fragment	Spoon
324	1310	7	1	silver-plated	Brooch
501	1331	1	1	?silver-plated	Wire
5390	4030	2	1		Ring
326	1100		1	Gold finger ring	Ring (SL 38)

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