

Elms Farm, Heybridge HYE93/4

Iron Objects - Archive Catalogue

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Box	Contents
LIV	15006 SF4943 Knife
LV	Brooches
1993 Box 13	
1993 Box 32	

The principal reference used for the Roman ironwork is the indispensable catalogue of the ironwork in the British Museum (Manning 1985).

Knives - scale tangs are much rarer than whittle tangs on Roman knives, and are early. There are a couple from box XXXIX, one from box XXIX - are there a lot of examples from Heybridge? Some of them are from Period II contexts anyway, and whittle tangs are definitely quite common in the IA - see Danebury.

Rings - section is circular or sub-circular unless otherwise specified.

Horseshoes - The presence of toe-clips indicates a 19th/20th century date. They were in use from the early 1800's on draught shoes, and from c 1825 on riding shoes. Some of the shoes have a rectangular section, indicating that they were stamped; these shoes are 19th-20th cent. Fullering all round the shoe is an indication of a factory made shoe; the fullering on shoes from this site is round the sides of the shoes only, showing that they were hand-made.

Folding knives - from 4881 (SF4163/4164), 14093 (SF5538), 8766. Possibles from 5939 (SF3567) and 5375.

4881	Cleaning		K	0
8766				
5939	Pit	5940	J	IIIB
5375	Ditch	5359	J	V-VI
14093	Pit	14099	K	V

Cua miniature axe-hammer transferred from box XXXV to Cua box 16.

Sheet fragments. Where these were very small, only the largest piece was measured.

Terminology

Rod	Has circular section
Bar	Has square or rectangular section unless otherwise specified.
Strip	Metal is thin, usually >3mm.
Sheet	Metal is thin, usually >3mm.
Plate	Metal thin unless specified. Shape to be specified.

Staples and carpenter's dogs – these objects are very similar, both having a crossbar (usually with a rectangular section) with arms at each end. For the purposes of this catalogue, staples have the longer axis of the section of the crossbar at right angles to the plane of the arms, and carpenter's dogs have the longer axis in the same plane as the arms.

W.	Width
Th.	Thickness
Ht.	Height
L.	Length
diam.	Diameter

Conservators cited:

N.da S.	Nerina da Silva
V.F.	Vanessa Fell
A.S.	Amanda Sutherland
M.B.	Margaret Brooks

Context notes

4392 SF1813 Interesting unfinished small knife from a Period II pit.

6000 SF466 Large nail. It has a small piece of **copper alloy** corroded on to it, possibly a rod fragment. This was not removed.

6142 There seems to be quite a lot of 'scrap metal' from this Period IV layer.

11305. There are several pieces with apparent distortion - could be scrap or working waste.

Box XVII/XVIIa Some of the listed pieces from 5597 seem to be missing.

15150 Box XXVII. Five rather odd pieces. Two are virtually identical curved fragments, and there is also a flat topped staple and 2 objects corroded together, one possibly a conical ferrule, the other possibly a tanged object, possibly with a flanged edge. The 'staple' may also have a flanged edge. The group will need to be looked at again following cleaning.

10874 SF5759 Hobnail – this is probably the wrong context – should be 10847 (there are other SF hobnails from 10874 with SF numbers following directly on from SF5759).

Box XXI. The group from 4689 looks interesting. Material from 5805 may be iron-working debris. 6367 SF2376 may be an unfinished object. SFs 3325, 3326 (both 5841) and 3329 (5805) have an unusual structure, and may be cast. Could they be modern?

5841 SF7291 The original description (Fragments of a large loop, probably perforated. This is probably part of the swivel assembly for a chain (e.g. a cauldron chain)) does not appear to tally with the object. **Check the SF sheet.**

6382 SF3005 Nail. The corrosion on the top has a partial impression of an object, with copper alloy staining present. It is possibly a fragment of finger-ring, with a strip hoop and oval bezel. However, this was the context with the coin hoard, so it could be an impression of some of the coins. The location of the nail was not plotted.

Box XXIV This box includes a number of curved strip fragments with mineralised wood on one or both sides, from contexts 12026, 12029 and 12036. All are fills of ditch terminal 12027 (Late 3rd. cent., IV-V). 12029 is a dump of pot in the top of the ditch. There is at least one join between contexts (a fresh break!). These are fragments of at least one water-pipe junction collar. 11000 SF4382 is almost certainly part of this group (**check SF sheet** – mistake for 12000?).

Box XXVIII Transferred to lead.

12000 SF5596 Irregular lump of **lead** in iron pan. X0457

14093 SF5607 Small fragment of mineralised organic material, no iron present. Didn't come out at all on the X-ray. Discarded. X0456

Box XXIX

8076 SF1372 Large lump of pebbly concretion, no iron present. Discarded. X461, 4529

Box XXXII

13666 Concretion with no metal present, probably mineralised bone. Discarded.

Box XXXVI

SF2672 was renumbered.

Box XLVIb

6352 Small lump of **copper alloy**, probably working waste. This wasn't in the returned box, and I may have already extracted it. Check.

Box XLVIII

X-ray EH 0697 was missing, and presumably has contexts 12019, 12187 and 13029 on it, which don't appear on any of the other X-rays for the box. They have been described as far as possible, but are probably not worth re-x-raying. The envelope for Box XVII claims to have this X-ray in it, but it's missing – some of the objects from box XVII are probably on it too.

Not in box?

12187 Mineralised bone?

13021 Nail head? X599

Box L

10171 Ferruginous concretion, no metal present. Discarded

1993 Box 32

3765 SF189 was lead

2614/ SF149-155, 157-60, 164-165: 2615 SF156, 161-163, 166- 509
2615 7. These small finds are all groups of small fragments which are either iron pan, or mineralised organics, or a mixture. SF159 is almost certainly mineralised bone, and SF162 may include mineralised wood. MB comments that these finds all appear to be mineralised woody matter. There *may* be ghosts of nails in some, but no definite nails can be seen on the X-ray.

Iron Box I

Cont.	SF	Description	Func.	D. no.	X-ray
4009	SF664	Stylus handle, Manning type II/III, point damaged and the end of the handle and eraser missing. The handle is moulded, with incised and inlaid brass wire decoration (brass identified by V.F.). The eraser end has an incised spiral line, with a single band of brass wire below. Below this is a band of fine ribbing. The bulbous point has an inlaid spiral of brass wire. L. 65mm. SF664, Fill 4009, Pit 4008, Area K, Period III	7	72	236
4009	SF8419	Socketed ferrule, with circular sectioned socket, almost closed, and square-sectioned point, slightly damaged. L. 112mm. (Renumbered from SF663) SF8419, Fill 4009, Pit 4008, Area K, Period III	11	34	239
4009	SF842	Thin rectangular plate, narrowing at one end to a short, offset, thicker stub, which was possibly broken by twisting in antiquity. One edge of the plate may have a very slight flange, and the end has been cut straight. This resembles a knife fragment (although there is not edge, as such), but may be just scrap metal. L. 57mm, W. 30mm. Pit 4008, Period III	20		236
4015	SF337	Stylus of simple form, with a narrow wedge eraser, and a tapering circular sectioned handle. The point is missing. L. 128mm. SF337, Fill 4015, Pit 4102, Area K, Period IV	7	108	236
4015	SF701	Strip, both ends incomplete, folded into a crude tube	20		237

Cont.	SF	Description	Func.	D. no.	X-ray
		flattened at one end. Scrap? L. 101mm, W. of strip (unfolded) 28mm. Pit 4102, Period IV			
4039	SF820	Rod, with each end bent at $\leq 45^\circ$. One end appears complete, the other is probably broken. This is possibly an unfinished or damaged oval chain link, whose original dimensions would have been $\leq 100 \times 35$ mm. Rod diam. ≤ 6 mm, L. (straightened) 260mm.	20		237
4125	SF1252	Perforated strip, probably incomplete, curved slightly lengthwise. It has an oval hole, nearer one side. 65×20 mm, hole 13×9 mm.	20		238
4129	SF1159	Gouge, with a solid, circular-sectioned handle of constant diameter with a slightly burred head. The U-shaped tip is incomplete. L. 79mm, diam. 9mm.	10		240
4129	SF1160	A delicate strip, distorted. Possibly broken across an expanded terminal. This could be a casket fitting, although there are no perforations present. 44×4 mm.	20		236
4129	SF413	Strip, apparently complete as buried. Unperforated, with a slight curve lengthwise. L. 210mm, W. 21mm.	20		238
4140	SF406	Carpenter's dog, curved, made from a bar with a pronounced taper to each end. The arms are of different lengths, and the shorter one has its point turned over. L. 72mm, L. of arms 23mm and 17mm. Max. section 9×7 mm.	11		236
4142	SF404	Small rod fragment, possibly pointed. Section uncertain, possibly a nail shaft. L. 27mm. Pit 4141, unphased	20		236
4142	SF420	Strip, tapering to a point. It has a regular curve, with a diameter of 80mm. The wider end may be broken. The metal is quite sturdy. Scrap? L. (straightened) 120mm, max. W. 30mm, Th. 2-3mm. Pit 4141, not phased	20		236
4150	SF1255	Two pieces of working waste; one oval fragment, probably working waste.	15		239
4183	SF425	Small rectangular plate, both ends probably broken in antiquity. 18×15 mm.	20		236
4187	SF424	Ring. Section probably circular. Ext. diam. 34mm, int. diam. 26mm.	20		236
4212	SF427	Stylus, shaft broken. The eraser is incomplete and shouldered. L. 60mm.	7		236
4239	SF1150	Stylus, distorted. Manning type 3. The point is unusually long compared to the handle. L. 123mm. SF1150, Fill 4239, Pit 4128, Area K, Period VI	7	107	238 1317
4286	SF1181	Link from a snaffle bit, form as Manning H14, with a ring at one end, and a collar, now incomplete, at the other. L. 84mm, ring diam. 20mm, collar W. 12mm, diam. 24mm.	8		238
4392	SF1184	Bell clapper, comprising a slightly tapering cone with the tip bent into a loop. The loop was damaged in antiquity. L. 119mm. Pit 4429, Area K, Period V	12	x	245
4427	SF1188	Oval loop made from a rectangular sectioned strip. Ext. dim. 42×28 mm, section 5×3 mm. Pit 4487, Period IV	20		238
4433	SF1197	Plate fragment, apparently complete. It has one straight and one irregular edge, with one rounded and one straight end. Probably scrap or working waste. L. 50mm, max. W. 15mm.	20		236
4433	SF1204	Strip fragment, edge damaged, X-ray unclear. The surface is covered in extensive mineralised vegetable matter. Possibly a blade fragment. 36×27 mm.	20		236
4470	SF1194	Plate fragment with one straight edge, other edges broken. 50×31 mm.	20		236
4470	SF1208	Square sectioned rod, broken at both ends. There is a projection towards one end, at an angle of $\leq 80^\circ$, kinked and possibly distorted. Possibly part of the spike at the end of a small lamp hanger (cf Manning P1). L. 74mm.	20		236

Cont.	SF	Description	Func.	D. no.	X-ray
5135	SF843	Strip, bent into a rough U-shape with a flat top, one arm longer than the other. The short arm is probably complete, and tapers to a point; the longer arm was broken in antiquity. This is possibly a clamp, and may have been distorted by forcible removal. Strip section \leq 8x4mm, W across top 43mm, arm L. 67mm and 23mm.	20		236
5135	SF844	Bar. One end is rounded, the other broken. It has a variable section, probably square at the complete end, and flattening at the broken end. Possibly a broken tool, such as a chisel. L. 92mm, section \leq 7x7mm.	20		237
5144	SF563	Disc, in good condition. Diam. 58mm, Th. \leq 10mm. Probably a door pivot base, as Manning, R15. Pit 5145	11		239
5148	SF1258	Ring, probably with a circular section. One side appears thinner, possibly due to wear. This is very similar to 4187 SF424. Ext. diam. 35mm, int. diam. 29mm.	20		236
5148	SF1772	Plate fragment, slightly curved, incomplete and damaged, but with a right angled corner. There is at least one perforation. The definite hole is small and circular, diam. 3mm, probably too small to be a nail hole. \leq 55x42mm.	20		238
5159	SF1274	Strip. 73x22mm. Layer, Period V-VI	20		237
5166	SF1395	Conical ferrule, mouth broken. L. 75mm, max. diam. 30mm.	11		244 433 1070
5188	SF1279	Fragment from latchlifter, with a rectangular sectioned blade. Most of handle missing, blade broken. L. 143mm, blade section 11x4mm.	21		240 433
5188	SF1280	Strip fragment, with a fresh break at one end. 32x10mm.	20		237
5214	SF1288	Rectangular plate with three rectangular perforations, set symmetrically. A looped projection is set at an angle in the middle of one edge. The plate is quite sturdy, the loop less so. Possibly a hinge plate, although the loop doesn't look substantial enough for this, compared to the robustness of the plate. Parallels? 138x36x6mm, hole W. \leq 7mm, loop external diameter \leq 20mm, internal diam. \leq 11mm. SF1288, Fill 5214, Pit 5209, Area J, Period V-VI	20	76	243 433
5214	SF1822	Strip fragment, one end squared, the other probably broken. The metal is very mineralised. There are two possible perforations. 56x19mm. Pit 5209, Period V-VI	20		237 432
5214	SF1823	Plate fragment, edges damaged, original shape uncertain. \leq 68x34mm. Pit 5209, Period V-VI	20		238
5214	SF1824	Curved bar, pointed at one end, other end probably complete. The bend was probably made by force. L. 140mm, max. sect. 6x6mm. Pit 5209, Period V-VI	20		237
5214	SF1902	Strip of constant width, bent into the shape of a latchlifter, although clearly not one. It is unclear if the ends are complete. W. 21mm, L. (straightened) 120mm. Pit 5209, Period V-VI	20		243 433
5217	SF1774	Rod, complete as buried. One end is bent into an S-shape. This may be a distorted or unfinished W-shaped hook. L. (straightened) \leq 160mm, diam. 7mm.	20		237
5228	SF1771a	Bar fragment. One end has a fresh break. 59x9mm. Cleaning layer, Period V-VI	20		236
5275	SF1873	Small strip, tapering slightly to a squared end. The other end has a squared notch in it, and is probably broken. Possible a buckle plate, especially since the notched end is slightly curved, as if to take the cross bar of a buckle. However, the strip is unperforated, with no visible means of attachment, and would be unusually delicate for a Roman buckle plate. Alternatively, it could be a buckle tongue, although this	20	74	236 432 1069

Cont.	SF	Description	Func.	D. no.	X-ray
		would not account for the notch. Could it be unfinished? Parallels L. 51mm, W. 5-9mm. SF1873, Layer 5275, Area J, Period V-VI			
5305	SF1322	Perforated strip fragment. The long axis of the oval perforation is across the width of the strip, which may be broken across a second perforation close to the first one. 50x18mm, perforation 11x8mm.	20		236
5356	SF1910	Bar fragment, tapering to a point.. L. 57mm, max. sect. 11x7mm.	20		237
5358	SF1904	Strip, broken at both ends. 90x19mm.	20		237 432
5374	SF1820	Flat strip with a square end, other end broken. Both edges are slightly turned up at intervals, and at least part of the edge is damaged. There is a nail (head and point missing) through the squared end. Probably originally a flanged strip, presumably sheathing for the edge of an object. L. 107mm, W. 37mm.	20		238 1070
5375	SF1826	Bar fragment, rectangular section, one edge straight and the other a tapering curve. Both ends are complete. L. 63mm, section 17x5-7x4mm	20		240
5376	SF1912	Strip fragment. 42x21mm.	20		240 432
5385	SF1830	Shaped plate fragment. It comprises a short strip, with a perforated spear-shaped terminal, with a nail through. The other end flares out, but is broken. Possibly part of a drop hinge, as Manning R9, although somewhat smaller. L. 94mm, W of terminal 20mm, W. of strip 12mm, max. W. 36mm. SF1830, Unknown context 5385, Area J.	20	56	239
6001	SF1254	Bar fragment, with a recent break at one end. D-shaped section. 57x9x6mm.	20		237
6001	SF1253	Stylus, point and eraser missing. It is very finely decorated with inlaid bands and lattice decoration in brass, along the whole length of the handle. The handle has a variable circular section, with a square-sectioned collar below the eraser. The iron is in fairly poor condition, and has cracked through near the eraser end. The decoration is as follows (from the point); 2 medium bands – broad band – 2 narrow bands – lattice – 2 narrow bands – broad band – 3 narrow bands – lattice – 4 narrow bands – broad band – 2 narrow bands – lattice – 2 narrow bands – 2 narrow bands – square collar with 2 medium bands. Each broad band is applied to a faceted segment of iron, with triangular facets alternately pointing up and down. There are probably ten facets on each band, but the stylus was only partly cleaned, and the full section is not visible. V.F. notes that there was some loss of decoration during cleaning. XRF analysis of the inlay showed it to be brass, with a trace of tin. L. 97mm. SF1253, Fill 6001, Pit 6006, Area H, Period IV	7	x	240 1342 1536
6005	SF1256	Sheet fragment, roughly quadrilateral. Original edges uncertain. c 52x35mm.	20		240 432 1071
6008	SF488	Plate in the shape of an irregular polygon, original shape uncertain. Quite thick, with a square central perforation. Possibly a washer. c 44x41, Th. 8-10mm, hole W. 8mm. Layer 6008, Period V-VI	20		240
6008	SF875	Possible drill bit, both ends broken. The broader end is probably starting to narrow again, suggesting that this is not just a nail shaft. L. 109mm. Layer, Period V-VI	10		239
6008	SF879	Bar, tapering and curved. Probably broken at both ends.	20		240

Cont.	SF	Description	Func.	D. no.	X-ray
		Possibly a large nail shaft. L. 100mm, max. section 11x11mm. Layer, Period V-VI			
6025	SF846a	Hipposandal wing. L. 68mm, W. 39mm. Layer, Period V-VI	8		243
6025	SF846b	Strip fragment with somewhat irregular edges. Possibly working waste. 43x20mm. Layer, Period V-VI	20		243
6025	SF894	Socketed bar, with fresh break. Check other objects/nails for joins There may be mineralised wood in the open socket. Probably part of a socketed chisel. Socket L. 47mm, diam. 20mm; bar diam. 7mm. Overall L. 145mm. Layer, Period V-VI	10?		245
6025	SF895	Probably two separate objects corroded together, not necessarily connected. One is a block 50x18x14mm, the other possibly a nail, very faint on the X-ray. Layer, Period V-VI	20		243 1071
6025	SF896	Bar fragment, badly cracked, slightly curved lengthwise. The edge may have been stepped, but the damage makes this uncertain. L. 91mm, max. section 20x14mm. Layer, Period V-VI	20		245 433
6025	SF898	Bar fragment, probably working waste. 58x19x \leq 7mm. Layer, Period V-VI	15?		243
6025	SF899	Sheet fragment with a fresh break on one edge, other edges irregular and probably broken in antiquity. 49x35mm. Layer, Period V-VI	20		432 1071
6026	SF891	Swivel loop, in poor condition, possibly from a cauldron chain. It comprises an oval ring with a ?lentoid plate for the swivel to go through. The swivel ends in a loop. Ring, external diam. 65mm, internal diam. 53mm, swivel L. 100mm. SF891, Layer 6026, Area H, not phased	4	x	245
6041	SF887	Bar fragment, possibly wedge-shaped. L. 39mm, max. section \leq 12x8mm.	20		237
6053	SF1766	Split spiked loop, points possibly broken. L. 104mm, external W. of loop 35mm, internal W. 15mm.	11		244
6053	SF902	Bar with closed socket, end of bar broken. Probably a chisel, cf Manning B36. L. 90mm, max. socket diam. 18mm, bar W. 17mm, th. 2.5mm.	10		243 433
6053	SF903	Chain link? An oval loop, with slightly overlapped ends, section uncertain. External dim. 42x36mm, internal 34x23mm.	20		243
6053	SF904	Sheet fragment, with right angled corner, other edges probably broken. Part of perforation present. \leq 70x32mm, perforation diam. 4mm.	20		243
6079	SF908	Collar, probably penannular, made from a strip of variable width. One end is complete, the other broken. External diam. 58mm, internal diam. 48mm, W. 26-37mm.	11		245 433
6117	SF1641	Strip, bent at one end. L. \leq 70mm, W. 12mm.	20		239
Iron Box Ia					
4015	SF700	Lift key with two teeth. Rectangular sectioned handle with a rolled loop and slight shoulders onto the bit stem. L. 103mm. SF700, Fill 4015, Pit 4102, Area K, Period IV	21	187	238
4142	SF404	File, with cranked tang. The tang has a fresh break, the blade an ancient one. The blade has a rectangular section, and the teeth are single cut and raked, with 5.5 teeth to the centimetre. The file is thus coarse cut, according to Fell's classification (Fell 1997, 85), suggesting that it may be a carpenter's float rather than a metalworking file (cf Manning B79). L. 104mm, L. of blade 31mm, section 11x9mm. SF404, Fill 4142, Pit 4141, AreaK, unphased	10	87	236 433 1069

4242	SF1167	Single link snaffle bit with a curved mouthpiece, and a ring at either end. Single link snaffles, discussed by Manning (1985, 66), are much rarer than double-link, and are possibly largely LIA/early Roman, looking at his parallels. L. of mouthpiece 110mm, rings, external diam. 30mm, internal diam. 23mm. Pit 4241, Area K, Period IV	8	43	239
4392	SF1813	Small tanged knife with a straight back and a curved edge, point missing. The knife appears to be unfinished, with the tang not fully formed. The strip which formed the blank for the knife was slit at an angle to form the heel of the blade, and the tang then formed by rolling the strip over. However, this process was not completed, as the part of the tang at the blade end has not been hammered flat. The edge of the blade is chamfered on one face only. L. 85mm. Max. W. of blade 22mm. Pit 4429, Area K, Period V	10	124	237 432
4427	SF1187	Small leaf-shaped spearhead with a incomplete closed socket. Flat section. L. of blade 53mm, W. 32mm, overall L. 72mm. Pit 4487, Area K, Period IV	13	73	237
5153	SF1814	Bar, probably complete, in fair condition. One side is slightly rounded, the other flat. It has two perforations set along the central line. One is a small square hole 26mm from the end, W. 3mm; the other is a longitudinal slit 4mm away from the hole, measuring 11x2mm. The purpose of these holes is unknown; they do not seem large enough to be nail-holes. The bar itself is quite thick, and it is unlikely to be a piece of strapping. 143x26x8mm. Layer, period V-VI	20	x	244
5159	SF573	Linchpin. This is something of a curiosity, as it does not fit into Manning's typology. The loop has been formed from a strip of metal taken from the top of the stem, and looped back towards the head. The tip of the loop has been formed into a single coil. The stem narrows slightly towards the broken end. L. 140mm, head W. 31mm. SF573, Layer 5159, Area J, Period V-VI	8	191	244 433
5228	SF1771b	Chisel, with a closed socket, slightly damaged but with a complete length. The blade is slightly splayed. L. 80mm, W. of blade 14mm, diam. of socket 12mm. SF1771, Cleaning layer 5228, Area J, Period V-VI	10	71	236
5275	SF1310	Tool, probably a tracer. A thin bar with a uniform rectangular section and a burred head. The blade is slightly rounded. L. 108mm, Section 10x3mm. Layer, Period V-VI	10	106	236
5275	SF1315	Lift key with a looped, square-sectioned, handle with a slight step to the round-sectioned bit-stem. The shape of the bit is unusual, with the end of the stem having been bent up almost parallel to the handle, and then at right angles, ending in a conventional bit with two teeth. The bend appears original, as there is no sign of stress to the iron. L. 80mm. SF1315, Layer 5275, Area J, Period V-VI	21	70	236
5358	SF1905	Bar of constant width, with a slightly rounded end and an offset tang. The object is of constant thickness throughout. Possibly a knife mood. L. 149mm, section 18x9mm, 'tang' section 7x9mm. SF1905, Fill 5358, Ditch 5359, Area J, Period V-VI	20	105	245 1317
6008	SF882	Probable socketed scraper, with a short curved blade. The socket is broken, and the edge of the blade damaged or chamfered. There are a number of parallels, including a larger example from Lullingstone (Meates 1987, 98, no. 256, unstratified), one of similar size but with a shorter blade from a 4th century context at Uley (Woodward and Leach 1993, 196 no. 8), and two from Ivy Chimneys, Witham, Essex (Major 1999, 99, nos. 17 and 20). One of the latter	10	111	240

		had small teeth at the end of the blade, and came from a late 3rd-early fourth century context; the other was unstratified. L. 70mm, W. of blade 26mm. SF882, Layer 6008, Area H, Period V-VI			
6025	SF1398	Lift key handle, most of the bit missing. The handle is long and broad, with a relatively short stem. The end of the handle is turned over to form a loop, as Manning O38. L. 145mm, W. 15-7mm, Th. 6mm. SF1398, Layer 6025, Area H, Period V-VI	21	109	245
6026	SF890	Linchpin. Manning type 2b. There is a slight step across the back of the head, and between the head and the shaft. L. 158mm, head W. 36mm. Layer, not phased	8		244 433
6121	SF1638	Object, complete as buried. A roughly square sheet, with two edges folded over, possibly over an iron wire. There are traces of copper alloy corrosion along the edge, possibly plating. This may be a protective binding for a corner, resembling modern book corners. 16x18mm. SF1638, Layer 6121, Area H, Period IV.	20	75	236

Iron Box II

4000	SF1259	Figure-of-eight loop. L. 39mm, max. W. 23mm, min. W. 14mm.	20		292
4000	SF1268	Split spike loop, both points missing, one arm bent. Made from a strip. L. 89mm, section 10x7mm, W. of head 32mm.	11		293
4000	SF1269	Perforated bar, possibly part of modern farm machinery. Plano-convex section with one thin edge. There are at least four perforations along this edge. Cf SF1438. L. 145mm, W. 22mm, Th. 11mm.	20		293
4000	SF1421	Ring. External diam. 51mm, internal diam. 39mm.	20		292
4000	SF1424	Bar fragment. Cast iron? In good condition, broken both ends. 66x37x11mm.	20		293
4000	SF1425	Bar fragment, parallel-sided with a sharp taper at one end. Broken both ends. L. 66mm, W. 35mm, Th. 8mm.	20		293
4000	SF1428	Tanged chisel with a slightly flared point, probably bevelled. Cf Manning B30. L. 93mm, W. of blade 17mm.	10		292
4000	SF1430	Large curved rod, forming a perfect arc, about a third of a circle diam. 242mm. Broken at both ends. Although it resembles a bucket handle, it is unlikely to be part of a Roman one, and could be modern.	20		4483
4000	SF1433	Strip fragment 46x27mm.	20		292
4000	SF1434	Block. Roughly rectangular, edges rather irregular. Working waste? 41x30x8mm.	20		292
4000	SF1435	Unidentified flat object, L 205mm. The back is straight, and thickened. One end is curved, the other damaged and possibly incomplete. There are two thicknesses of metal present. A piece of sheet up to 32mm wide extends the whole length of the object. The other edge is damaged, and very faint on the X-ray. It possibly has a sharp edge. On one face of the sheet, are two narrower strips, overlapping in the middle. The first strip lies along the back of the object, and has rounded ends. There are four perforations, unevenly spaced. The second strip lies over the first, and angles out slightly from the broken end. The end in the middle of the object is probably rounded, but the inner edge tapers towards the broken end. There are two perforations. It is unclear whether the back is integral with the sheet, or whether the various parts are actually riveted together. L. of first strip 117mm, W. 13mm; L of second strip 105mm, max. W. 13mm. It is unplotted, and possibly modern. SF1435,	20	102	293 434 1341

		Unstratified		
4000	SF1436	Rod, slightly tapering. L. 106mm, diam. 9-12mm.	20	4483
4000	SF1437	Rake tine with bevelled tip, section variable. Good condition, probably post-Roman. L. 182mm.	12	293
4000	SF1438	Strip fragment with a D-shaped section. One hole is visible near the edge, and it is broken across two more. Broken both ends. Cf. SF1269. Probably modern.	20	293
4000	SF1439	Billhook point, probably with a spike, now missing. This could be Roman, as the shape of this type of tool has changed little over the centuries (Cf Rees 1979, fig 223a), but is more likely to be modern. It is in fairly good condition, and the edge is still quite sharp. L. 150mm, max. W. 74mm.	12	4484
4000	SF1440	Strip fragment, possibly perforated, and possibly with one rivet present. Broken both ends. 57x15mm.	20	292
4000	SF1442	Hipposandal wing. L. 70mm, ht. 48mm.	8	292
9016	SF1521	Rod or bar, section uncertain. L. 116mm, W. 10-16mm.	20	4483
9056	SF1535	Four fragments, very scrappy.	20	292
9056	SF1535	Ferrule? Square sectioned socket with flat end. It probably had a small flange round the open end, now rather damaged. Not certainly complete. There are possible traces of wood in the socket. Ht. 18mm, W. 13mm. Unknown context.	20	42 292
10000	SF1468	Bolt or very large nail with a round, slightly domed head. The shank has no point, and may be complete. It has a right-angled bend, made in antiquity, where the metal has fractured most of the way through. This damage may be the reason that it was discarded. L. 154mm, head diam. 47mm.	11	4487
10000	SF1827	Probable knife fragment, with a parallel-sided blade and a scale tang. Both ends are missing. L. 71mm, max. blade W. 22mm, tang W. 16mm. The type is more likely to be LIA than Roman.	10	291 434 1072
10005	SF1477	Bar, square section, very slightly curved, broken both ends. L. 135mm, W. 14mm.	20	4483
10007	SF1810	Strip fragment. 97x38mm.	20	4484
10007	SF1811	Lock plate, very mineralised, and damaged. Rectangular, probably with slightly concave sides, as is common on lock plates (e.g. an example from Stansted, Major in prep). Two corners have parts of nails present, and there is a nail-hole in the third. The fourth corner is damaged. The keyhole is probably a lozenge shape, but the metal is so thin that the X-ray is rather vague. 113x83, keyhole 15x12.	21	291 1072
10011	SF1777	Padlock key, made from a tapering strip, now distorted and with most of the bit missing. The end is rolled into a loop. Cf Manning O73. L. 148mm, W. 9-20mm.	21	292 1073
10017	SF1474	Sheet fragments in very poor condition, very concreted. The original shape is uncertain. There is probably also a nail shaft in the block.	20	291 1072
10028	SF1815	Strip fragment, broken at both ends, and curved length-wise. It broadens at one end. Possibly part of a drop hinge. L. 70mm, W. 27-54mm, Th. 7mm.	20	291
10030	SF1469	Ring. External diam. 44mm, internal diam. 28mm.	20	291
10035	SF1472	Lump, in four pieces, containing four objects, lying parallel to each other. The objects present are:	20	4486 1073
		Strip, tapering slightly to a fresh break. The other end has a narrow loop. Possibly a looped hinge, although there is no indication of perforations. L. 83mm, max. W. 22mm.		
		Rod, circular section, probably slightly variable in diameter. One end has a fresh break, the other has the tip turned up. L. 74mm, diam. c 8mm.		

		Two bars with square sections. Both have a fresh break at one end, and blunt points at the other. L. 295mm and 230mm, section 10x10mm. Early Roman pit fill.			
10073	SF1821	U-shaped bar fragment, one end broken in antiquity, the other possibly complete, with a flat end. Possibly part of an oval chain link. W. 32mm, L. 29mm.	20		292
Iron box III					
4000	SF251	Stylus of simple form, Manning type I. Made from a rod of almost constant diameter, tapering sharply at one end, and with the other end flattened into an eraser, now incomplete. The eraser was probably not shouldered. L. 134mm, diam. 4mm.	7		294
4000	SF252	Padlock key, surface flaked. The handle is a narrow bar of constant section with the end looped. The bit is broken, but was originally roughly circular, with a ?rectangular hole. This is medieval rather than Roman. The mechanism of barrel padlocks was basically the same in both periods, but Roman padlock keys generally (possibly exclusively) have strip handles, as the example from 10011, SF1777, and square or rectangular bits. Medieval padlock keys generally have rod or bar handles and round bits (see, for example, Goodall 1990 for examples from Winchester). L. 170mm, W. 27mm.	111		294
4000	SF261	Socketed projectile point, tip bent. It has a slight central rib, and a well-made closed flanged socket. L. 85mm, socket external diam. 9mm. Manning (175ff) discusses the type, classing them as small bolt-heads (Roman arrowheads are tanged). This example from Elms Farm is similar to some of a group of mid-1st century bolt-heads from Hod Hill (e.g. Manning V254). Unstratified	13	40	294
4000	SF285	Bar, slightly curved, with a variable section. One end is pointed, and the other flattened somewhat, and probably broken in antiquity. While bearing a superficial resemblance to a chisel such as Manning B26, the piece is rather crudely shaped, and is probably just working waste. L. 81mm, max. section 14x13mm.	20		294
4000	SF383	Part of a pair of shears. Half the blade is missing, and the handle is broken below the loop. L. 75mm, blade W. 18mm.	10		294
4000	SF398	Bar fragment, slightly tapering, with the stub of a tang at one end. Rake prong? Possibly modern. L. 120mm, W. 12mm	20		294
4000	SF399	Bar fragment, one end complete, broken across the start of a curve. Thicker at the complete end. Probably modern. L. 95mm, max. section 15x14mm.	20		295
4000	SF702	Two carpenters' dogs, both in fairly good condition, and solidly made. They are very similar, with one end slightly rounded, although slightly different in size. The larger one is illustrated. a) L. 150mm, arm L. 62mm, section of top 21x14mm. b) L. 127mm, arm L. 47mm, section of top 21x14mm. Unstratified	11	x	4487
4000	SF736	Fragment, probably part of a socket. L. 35mm.	20		294
4000	SF745	Hipposandal heel, most of hook missing. Parallel sided. L. 100mm, max. W. 70mm.	8		4483
4000	SF746	Bar, ends slightly rounded, possibly complete. 230x38x11mm. Working waste?	20		4486
4000	SF747	Plate fragment, with one original curved edge, roughly a quarter of a circle, other edges broken.	20		294

4000	SF748	Possible type K nail head, shaft broken, top flattened. The head shape is rather irregular and hazy on the X-ray, suggesting that this may be unfinished. L. 55mm, head W. 44mm.	20		4484
4000	SF749	Bar fragment, flat on one side and curved on the other, with a sub-triangular section. There is a projection like a scale tang at one end. Probably modern; comparable with SFs 1269 and 1438 (both 4000). L. 100mm, W. 30mm.	20		295
4000	SF752	Bar fragment, probably broken across a hole at either end. The condition suggests that this is modern, probably cast iron.	20		295
4000	SF754	Rod, section uncertain, at least one end broken. L. 170mm, W. 5mm.	20		295
4000	SF756	Bar, with a square section, slightly tapering, with a broken tang at the wider end. There are possible globules of lead or copper alloy in the corrosion. This could be a tool, or a prong, but with the end missing, it is impossible to tell. Concreted, so probably Roman. L. 124mm, max. section. 18x18mm.	20		4484
4000	SF757	Rod with a looped head, the other end broken where it starts to curve. Possibly a key with the bit missing. L. 100mm, diam. 5mm.	20		295
4000	SF758	Working waste. Lump, c 20x20x15mm.	15		295
4000	SF761	L-shaped hinge pivot, with a square-sectioned spike and a round-sectioned pivot, probably broken. Spike L. 85mm, pivot L. 42mm.	11		295
4000	SF762	Spike, with a square section. The pointed end is complete, the other end possibly broken. L. 230mm, W. 11mm.	20		295
4000	SF763	L-shaped lift key, with a copper alloy handle, probably solid, and a heavily concreted iron stem and bit. The handle has a rectangular section and an end loop. The bit is very mineralised, with two teeth. L. 118mm. Unstratified	111	51	1075
4000	SF763	L-shaped lift key, in three pieces, with a hollow copper alloy handle, and a heavily concreted iron stem and bit. The handle has a rectangular section and two lugs on the top. These were possibly part of a loop originally; if so, the loop may have been removed in antiquity. The bit is very mineralised, and the number of teeth is uncertain. L. 144mm. Unstratified	111	130	1076
4000	SF764	a) Probable blade segment, parallel sided. L. 45mm, W. 21mm.	10		294
4000	SF764	b) Strip fragment, slightly tapering. 34x20x8mm.	20		294
4000	SF764	c) Pointed bar fragment, resembling a knife tip, but without an edge. Possibly the tip of a rake prong. L. 51mm, W. 16mm.	20		294
4000	SF764	d) Strip, now in two pieces. One end is bent back on itself, the other end is broken, possibly across a perforation. L. (straightened) 232mm, W. 16mm.	20		294
4000	SF765	Split spiked loop, points missing. L. 63mm, external W. of head 32mm.	11		295
4000	SF766	Flanged bar fragment, probably modern cast iron. Good condition. L. 43mm, W. 30mm.	20		295
4000	SF767	Probably a broken loop from an object, perhaps a ring-headed spike. L. 37mm.	20		294
4000	SF773	Two fragments. a) Rod fragment, probably with a circular section, pointed. L. 35mm, diam. 9mm. b) Irregular fragment, probably working waste.	20		295
4000	SF774	Ring. External diam. 76mm, internal diam. 63mm.	20		294
4000	SF775	Ring. External diam. 47mm, internal diam. 34mm.	20		294
4000	SF776	Knife blade, parallel sided, with point and most of tang	10		294

		missing. The point of the knife may have been deliberately cut off, as it stops in a straight line. L. 110mm, W. 13mm.		
4000	SF777	a) Strip, D-shaped section, broken at both ends. One end may be flattened. Probably part of a casket angle bracket. L. 70mm, W. 6mm.	11	294
4000	SF777	b) Small bar fragment, with one square end, other end broken. It has a small perforation, set off centre, at the complete end. 22x8x2mm, hole diam. 1mm. Probably part of a padlock spring, the hole being for the rivet which held the leaves on. I have no direct Roman parallels, but there are two medieval barrel padlock springs from Norwich (Goodall 1993, 155, nos. 1236 and 1239) which are comparable. There is no reason to suppose that the Elms Farm example is not Roman.	111	294

Box IV - Iron not selected for X-ray

Cont.	SF	Description	Func.
4000	SF258	Narrow hoop made from a rectangular sectioned bar. External diam. 96mm, internal diam. 89mm, W. 9mm.	20
4000	SF260	Pony or donkey shoe, toe damaged, and without calkins. Probably fullered. L. 94mm, W. 78mm.	8
4000	SF282	Horseshoe, 75%. D-shaped section, with no toe-clip, heel damaged. L. \leq 96mm, W. \leq 110mm.	8
4000	SF301	Horseshoe, complete but in poor condition. The thickness is variable, and only one side appears to be fullered. The holes are not visible. There was probably a toe-clip, now missing. L. 133mm, W. 122mm.	8
4000	SF302	Pony or donkey shoe, with a thick D-shaped section, and a toe-clip. Possibly fullered, holes not visible. L. 93mm, W. 80mm.	8
4000	SF581	Horseshoe, 50%. A thin shoe with no calkins, holes not visible. L. 109mm, W. \leq 110mm.	8
4000	SF582	Horseshoe, 50%. A rather thick shoe with a toe-clip. L. 125mm, W. \leq 142mm.	8
4000	SF699	Small bar fragment, variable irregular section. L. 24mm, section \leq 4x4mm.	20
4000	SF744	Hipposandal heel, half of the hook missing. L. 75mm, W. 71mm.	8
4000	SF751	Horseshoe fragment, no details visible.	8
4000	SF755	Bar fragment, possibly the tip from a large spike or a wedge. Head damaged. L. 74mm, section \leq 20x18mm.	20
4000	SF759	Block fragment, probably cast iron. 52x25x20mm.	20
4000	SF760	Two curved rod fragments; one has a variable section, square to circular, and could be part of a latch lifter. The other has a square section. They are possibly part of the same object. L. \leq 198mm, section \leq 8mm wide; L. \leq 215mm, section W. \leq 10mm.	20
4000	SF769	Hook, possibly a Roman wall hook, although the straight element is rather short, and the curved element deeper than normal. L. 75mm, ht. 68mm.	11
4000	SF769	Rod fragment, curved. One end is broken, the other possibly has a slightly flattened terminal. L. 100mm, diam. 7mm.	20
4000	SF770	Three small fragments	20
4000	SF772	Three small bar fragments in poor condition. One is possibly complete. Working waste? 32x9x6mm; 40x8x8mm; 39x9x9mm.	20
4000	SF778	Eleven fragments, all small and irregular, probably scrap.	20
4000	SF781	Horseshoe, complete. Fullered, with a toe-clip, and slightly thickened heels. There are two nails in place. L. 144mm, W. 129mm.	8
4000	SF783	Horseshoe, \leq 70%. It appears very broad in comparison to its length, but the heel may be incomplete. The frog is V-shaped. L. \leq 100mm, W. 107mm.	8
4000	SF784	Large hook with a knobbed end, hook broken. Probably from a swivel fitting. L. 155mm. In good condition, possibly Roman.	11
4000	SF785	Two horseshoe fragments; \leq 50% with four rectangular nail-holes and a slightly thickened heel. L. 114mm; \leq 30%, heel missing, holes not visible.	8
4000	SF798	Ring. External diam. 48mm, internal diam. 36mm.	20
4000	SF827	Horseshoe, complete. No calkins, holes not visible. It probably had a toe-clip,	8

Cont.	SF	Description	Func.
		now broken off. L. 120mm, W. 120mm.	
4000	SF838	Simple chisel, with incomplete square shaft. L. 52mm, W. of blade 20mm.	10
4000	SF1260	Horseshoe with toe clip, complete. A thick shoe, with three nails still in place. L. 148mm, W. 135mm.	8
4000	SF1261	U-shaped heel iron from a post-medieval boot (probably 19th/20th cent.). Six nail-holes are visible. L. 43mm, W. 70mm.	1
4000	SF1262	Horseshoe, 50%. A large shoe with narrow branches and a pointed heel. L. 153mm, W. c 160mm.	8
4000	SF1263	Horseshoe, complete bar slight damage to the heels. Fullered, and probably without calkins. Nail holes not visible. A thick shoe with broad branches. L. 111mm, W. 112mm.	8
4000	SF1264	Horseshoe with toeclip, complete. A thick shoe with a rectangular section and asymmetrical branches, one narrowing to only 8mm wide. An orthopaedic shoe? L. 133mm, W. 105mm.	8
4000	SF1265	Horseshoe, 75%. It has fairly narrow branches, one thicker than the other, and is wide for its length. L. 123mm, W. 135mm.	8
4000	SF1266	Horseshoe, complete. Fullered, with no calkins or toe-clip. Rather thick. L. 138mm, W. 135mm.	8
4000	SF1267	Horseshoe, complete. It has low calkins and a narrow U-shaped frog. L. 125mm, W. 115mm.	8
4000	SF1420	Ring, good condition. External diam. 47mm, internal diam. 34mm.	20
4000	SF1422	Ring, good condition. External diam. 44mm, internal diam. 30mm.	20
4000	SF1423	Hipposandal wing, in good condition. L. 90mm, max. W. 34mm.	8
4000	SF1427	Plate fragment in good condition, probably cast iron.. 38x35x10mm.	20
4000	SF1429	Square washer with perforation. 40x40mm, hole diam. c 9mm.	11
4000	SF1443	Three thick wire fragments, probably modern.	20
4000	SF7293	Horseshoe, 50%. No calkins and slightly inturned heels. Three nail holes on extant branch. This is possibly earlier than most of the horseshoes from the site, possibly early post-med. L. 112mm, W. c 126mm.	8
4000		Two boot heel irons. Modern.	1

Iron Box V

Cont.	SF	Description	Func	Draw	X-ray
4000	SF2721	Rectangular block 49x15x12mm.	20		299 300
4000	SF2780	Bar, tapering at both ends. L. 48mm, max. section 3x4mm.	20		296
4000	SF2842	Strip with perforated oval terminal. L. 62mm, strip W. 12mm, terminal 27x24, perforation diam. 6mm.	20		296
4000	SF2843	Large cleat, probably from a boot. Sub-rectangular plate with a tang at each end, one broken. Possibly Roman (cf Manning 1985, R54-64). 46x30mm, tang L. 20mm.	1		300
4216	SF2745	Strip fragment, probably originally with a rounded end with an offset circular perforation, open at the edge. Broken in antiquity. Possibly a hinge fragment, a bucket handle plate, or the handle of a latchlifter. L. 44mm, W. 30mm, hole diam. 9mm.	20		296
4286	SF1183	Three joining strip fragments, probably a blade. The metal is very mineralised, and the edge is damaged. L. 74mm, max. W. 25mm..	10		296
4521	SF1967	Latchlifter, surface flaking. The flat rectangular handle has its end missing. The tip of the rod blade is turned up. L. 270mm, handle 95x16mm, rod diam. 7mm.	111		435
4521	SF2869	The point from a large, thin blade, complete as buried. The surface is extensively covered in mineralised organic material, not directly associated with the object. The fragment is triangular, with a straight cutting edge. This large blade was probably a cleaver, similar to Manning Q103. L 178mm, W 82mm. Any butchered bone from the context?	10		301

Cont.	SF	Description	Func	Draw	X-ray
4525	SF1972	Strip, with one end curved, the other turned back on itself. There are probably two perforations; the X-ray is faint. L. (straightened) 179mm, W. 27mm.	20		300 435
5000	SF314	Stylus, type 2. A small example with an incomplete rectangular erase, only slightly wedged. There is a slight step between the handle and the point (side view not illustrated as no X-ray available). L. 78mm. Machining layer	7	x	296
5000	SF316	Stylus, type 3, with both point and splayed eraser clearly separated from the stem. L. 134mm. Machining layer	7	x	296
5000	SF335	Plate, in the shape of a sector of a circle. This looks like an offcut. L. 65mm, max. W. 16mm.	20		296
5144	SF2754	Three sheet fragments. They are probably all the same object, although only two join. The original shape is unknown. <u>C</u> 35x28mm and <u>c</u> 45x32mm.	20		297
5146	SF2744	Knife blade segment, with a pot rim corroded on, and small globule of lead within the corrosion. L. 54mm, max. W. 18mm.	10		297
5306	SF2305	Strip fragment, probably broken across a perforation. 62x30mm. The context is probably wrong – more likely to be 5603.	20		297
5307	SF2015	Swivel loop, possibly from a cauldron chain, with the end of the loop wound round the shaft. Bent. The loop is very thin at the bottom, possibly due to wear. L. 95mm, external diam. Of loop 35mm. Cleaning layer, Period V-VI	11	x	297
5307	SF2022	Plate fragment, all edges broken. 36x28mm. Cleaning layer, Period V-VI	20		296
5347	SF3226	L-shaped hinge pivot, incomplete. Sections unclear. Spike, L. 70mm; pivot, L. 21mm.	11		298
5357	SF2316	Bar fragment, one end broken. The other end tapers from one side, and was probably originally a loop. This is probably a handle, either from a key (cf Manning O22), or a latchlifter, or, less likely, a knife (cf Manning Q12). L. 90mm, section 10x5mm.	20		299
5391	SF2006	Three joining sheet fragments, original shape uncertain. <u>C</u> 60x45mm.	20		296
5401	SF1839	Sheet fragment, roughly rectangular. <u>C</u> 46x35mm.	20		296
5409	SF1838	Rectangular plate, two edges probably broken in antiquity. 28x20x4mm.	20		297
5409	SF2087	Bar, with a rectangular section. It is curved, and was probably originally U-shaped. One end is broken, the other is broken at right-angles. This is probably an unusually long, curved carpenter's dog. A second, non-joining, fragment is probably the other end of the top, with part of its arm. L. 92mm, section 5x4mm.	11		296
5410	SF1837	Small L-shaped plate fragment, both ends broken. L. 23mm, W. 7mm.	20		296
5427	SF1069	Z-shaped bar, broken at both ends. There is a slight constriction at either end of the longer arm, suggesting that this may originally have been symmetrical. It was possibly a small flat topped strap handle, although these appear to be rare. Parallels? 'Top' 60x8mm, arm L. 18mm.	20		296
5427	SF2110	Lever lock key, with a simple looped handle and complex bit. The end of the stem is hollow. Cf Manning 1985, O61. L. 78mm. Area I, cleaning layer over road/roadside. not phased.	111	x	298
5427	SF2119	Double spiked loop, with the ends of the spikes everted. Made from a strip, section 11x6mm. L. 86mm, head external W. 26mm.	11		300
5427	SF2452	Roughly triangular block, edge fissured, with one end probably cut. Probably working waste. L. 91mm, max. W. 45mm, Th. 16mm.	15		300

Cont.	SF	Description	Func	Draw	X-ray
5427	SF2452	Triangular lump, probably working waste. W. 27mm, L. 26mm, Th. 14mm.	15		300
5427	SF2452	Sheet fragment, original edges uncertain, with the remains of a nail through it. C 43x32mm.	20		300
5427	SF2452	Sheet fragment, probably part of a strip; the X-ray is very faint. C 40x50mm. Scrap?	20		300
5430	SF2118	Probably blade fragment. The section is very thin, with neither side edged. One end has an old break, the other has an asymmetric point. The shape is right for a knife blade with a straight cutting edge, but it was either extremely blunt when buried, or is perhaps part of an unfinished implement.	10		298 1090
5434	SF2088	Strip fragment. 32x17mm.	20		296
5434	SF3198	Carpenter's dog, with one arm missing. Made from a square sectioned bar, W. 5mm. L. 57mm, arm L. 15mm.	11		296
5441	SF2311	Stylus, type 2. There is probably a very slight shoulder between the point and the eraser. L. 116mm. Layer, Period VI	7	37	298
5472	SF2269	a) Two joining sheet fragments with a right-angled corner, other edges broken. The corner is perforated, and it is broken across a second perforation. 87x39mm, hole diam. 4mm.	20		296
5472	SF2269	b) Strip fragment, no fresh breaks. Possibly part of object SF2269a. 34x24mm, hole diam. 5mm.	20		296
5494	SF1061	Chisel or punch. Oval section, with a burred head and a broad wedge point. L. 84mm, section c 18x18mm. SF1061, Layer 5494, Area I, Period III B	10	48	1090 4483
5499	SF3206	Linch pin, Manning type 2b, complete. Oval head with slightly asymmetrical shoulders. Rectangular sectioned shaft with step on back. L. 165mm, head 53x32mm, shaft section 15x13mm.	8		1090 4484
5499	SF3209	Chisel, probably a tanged paring chisel, with a bolster between the blade and the tang. Cf Manning 1976, 25 no. 59. L. 128mm. SF3209, Make-up layer 5499, Area H, Period V	10	38	298
5502	SF2767	Small block fragment, roughly rectangular. Probably working waste. c 27x23x9mm.	15		298
5511	SF2762	Probably a nail. Obscured by concretion, neither X-ray very clear.	22		298 435
5511	SF2763	Probably a nail head, but very concreted and corroded. X-rays unclear, possibly just working waste.	20		298 435
5511	SF2764	Bar fragment. 37x11x10mm.	20		297
5512	SF3233	Bar fragment, broken both ends, with a slight curve at one end. 89x10x8mm.	20		298
5523	SF2746	Strip of almost constant width, with one end looped over. The other end has a fresh break, probably at a right-angled bend. Almost certainly a padlock key with the bit missing. L. 94mm, section 9x3mm.	111		299 435
5536	SF2278	Open socket, tapering to a thin, flat blade, broken where it begins to expand. The surviving part of the blade has no sharp edge. This is probably a knife, Manning's type 22, which he notes as a rare form. Most examples are from London, although there are two from Baldock (Manning and Scott 1986, 155, nos. 535-6). L. 93mm, max. W. of blade 15mm.	10		299 1090
5543	SF2274	Figure-of-eight chain link. Cf Manning S9. L. 84mm, max. W. 21mm, circular section, diam. 7mm.	11		298
5543	SF2282	Fragment, probably part of a small knife with the start of the tang. Slightly curved lengthwise. L. 44mm, max. W. 21mm	10		299 435
5543	SF2287	Rectangular plate, one end complete and squared, with a circular perforation. The X-ray is very faint in places, and it is uncertain whether it is complete, and if there are any more perforations. There is either a bent nail or a broken staple through the hole. Probably a structural fitting. 75x26mm, hole diam. 7mm. Cleaning layer, Period V-VI	20		299

Cont.	SF	Description	Func	Draw	X-ray
5543	SF2288	U-shaped binding strip in two pieces, one end broken. The other end has a roughly lozenge-shaped terminal, probably damaged, with a circular perforation. This is unlikely to be a strap hinge, as there is only a single perforation, but may have been a reinforcement strip from the edge of a substantial piece of timber. L. 145mm, complete strip L. 273mm, W. 13mm, W. of terminal 25mm, perforation diam. 9mm. Cleaning layer, Period V-VI	20	36	299
5543	SF2747	Carpenter's dog, one arm missing. L. 62mm, arm length 22mm, section 7x7mm. Cleaning layer, Period V-VI	11		299
5543	SF2748	Bar fragment, variable section. Probably working waste or scrap. L. 92mm, max. W. 26mm, max. Th. 11mm. Cleaning layer, Period V-VI	15		300
5543	SF2765	Small socketed blade, with recent damage to the socket, length incomplete. The blade is curved, and the tip is missing (an old break). The socket is probably a closed flange, with the split along the outer edge (i.e. in line with the back of the blade), which is unusual. There are traces of mineralised wood in the socket. L. 125mm, blade W. 24mm. Cleaning layer, Period V-VI. Area J, cleaning layer along roadside.	12		300
5543	SF2766	Small rod fragment, broken both ends. Probably a nail shaft. L. 18mm. Cleaning layer, Period V-VI	20		299
5543	SF2798	Wedge-shaped fragment. The surfaces are flaked, and it may not be complete; it could be the point from a chisel or other tool. The blade could be serrated; the X-ray shows three nicks at regular intervals, although this may be an illusion created by the corrosion. L. 54mm, max. section 25x25mm. Cleaning layer, Period V-VI	10	39	299 300
5543	SF2799	Roughly rectangular plate fragment, curved widthwise. Possibly complete, although the edges are rather irregular, and possibly perforated. 72x68mm, Th. 6mm. Cleaning layer, Period V-VI	20		298
5596	SF2815	Tapering strip fragment, probably from an angle bracket. The fresh fracture at the broader end clearly shows that it would have bent at right angles. L. 58mm, W. 18-27mm, Th. 5mm.	11		297
5603	SF2293	Large flat sheet fragment with one perforation. The edges are irregular, and it is uncertain whether any are original. One edge is slightly turned up for part of its length. \leq 180x110, hole diam. 7mm. Possibly sheathing for some object, but far too incomplete to be certain.	20		301
5603	SF2296	Fine needle, broken across the eye. The point is probably missing. The slit is a long rectangle, with the head bulging slightly round it, comparable to e.g. Manning D27-32. The metal is so thin at the eye that it barely shows up on the X-ray, demonstrating the difficulty of identifying needles of this fineness, unless complete. L. 44mm, diam. 1mm. Area I, cleaning layer.	3		297
5603	SF2299	Two fragments, forming \leq 50% of a type II ox goad (Rees 1979, 75). There is mineralised wood in the socket, possibly associated with the object. Diam. \leq 17mm, L. 30mm, ferrule depth 15mm.	12		297
5603	SF2301	Knife blade in three pieces, straight-backed with an (incomplete?) perforated scale tang. L. 109mm, W. 21mm. Possibly a residual LIA/ER knife. Cleaning layer, not phased	10	x	297
5603	SF2302	Disc with a large central hole, broken on one side. Presumably a washer. 33x29mm, hole diam. 10mm.	11		297
5603	SF2303	Rectangular plate fragment with central perforation. Possibly complete	20		297
5603	SF3312	Strip fragment, curved slightly widthwise. L. 38mm, W. 22mm.	20		297

Cont.	SF	Description	Func	Draw	X-ray
5603	SF3313	Two strip fragments, non-joining, but undoubtedly from the same object. W. 3mm, L. 37mm and 31mm.	20		297
5611	SF2300	Thick plate fragment with one straight end, other edges irregular. Possibly working waste. 34x20x5mm.	20		298
5662	SF2309	Ring, now incomplete. Circular section, external diam. 46mm, internal diam. 35mm.	20		298
5662	SF3179	Knife fragment; a narrow parallel-sided blade with a pointed tip, probably broken across a ring at the other end. Probably Manning type 1, possibly 1c. L. 112mm, W. 12mm.	10		297
5662	SF3193	Rectangular plate, possibly complete, with a circular perforation. 40x22mm, Th. 4mm, hole diam. 11mm. Possibly a washer.	20		298
5671	SF3187	Strip fragment. 27x12mm.	20		297
5706	SF3225	Plate fragment, possibly perforated. \varnothing 49x25mm.	20		297
5721	SF3212	Bar fragment, broken at both ends, slightly curved, and thicker in the middle. The shape would be consistent with a horse bit link with the loops missing. L. 59mm, section 11x \varnothing 11mm.	20		298
5723	SF2969	Carpenter's dog with curved top. Both arms are broken. Cf 5409 SF2087. L. 79mm, section \varnothing 5x6mm.	11		297
5730	SF3230	Collar, made from a strip of constant width. External diam. 55mm, W. 26mm.	11		299
5730	SF3231	Plate fragment, possibly a strip fragment with a rounded terminal. 30x25mm.	20		297
5742	SF2841	U-shaped heel iron with three rectangular holes, incomplete. Modern, 19th-20th century. The context is directly below the machining layer. L. 43mm, W. 58mm. Cleaning layer, unphased.	1		296
5746	SF3216	L-shaped lift key. The handle is flat with a loop in the same plane, and a slight step to the stem. The bit had two teeth, one now missing. L. 127mm. Cleaning layer, not phased	111	175	296
5747	SF3229	Strip fragment, slightly curved. L. 56mm, W. 7mm.	20		296

Iron Box VI

6000	SF2804	Tapering bar fragment with rounded end. This is probably a post-medieval cutlery handle. The shape is as, for example, Moorhouse 1971, 36, no. 5, but with a solid iron handle rather than a bone handle on a tang. The given parallel is probably 16th-17th cent. L. 77mm, max. W. 16mm.	4		302
6000	SF2805	Hinge, formed from two double-spiked loops pivoting on a short rod with slightly flattened ends. The loops are now lying parallel. Part of one side is missing due to recent damage. L. 62mm, W. 27mm. SF2805, Cleaning layer 6000, Area H, not phased	11	x	304 1319
6000	SF2806	Strip fragment, probably perforated. At least one end is broken. 46x16mm.	20		302
6000	SF2807	Sheet fragment, probably with a curved edge, probably perforated. \varnothing 48x20mm.	20		302
6000	SF2808	Strip fragment, probably a rounded terminal with a square perforation (shape vague on the X-ray). L. 42mm, W. 18mm, hole W. 4mm.	20		302
6000	SF2849	Tapering rod or spike, probably with a circular section. The point is missing and the other end is probably broken. L. 124mm, max. diam. 11mm.	20		304
6008	SF2797	Tapering bar fragment with a regular curve, broken both ends. Possibly a collar or ferrule. External diam. \varnothing 45mm, section 9x10-16mm.	20		303 482 483
6008	SF2813	Arm from a carpenter's dog. Arm L. 32mm, section of top bar 10x4mm.	11		302

6025	SF2800	Tapering bar, probably a punch. Possibly complete, and tapering in two dimensions to a point with a bevel on one face. Cf Manning A28. L. 62mm, max. section 23x17mm.	10		304 436
6025	SF2802	Spring, either from a padlock bolt or a simple lock from, for example, a chest. It is made from a strip, bent back on itself, with one arm bifurcated. The other arm is incomplete, and probably broke in antiquity. Parallels with trifurcated or one-piece springs come from Baldock (Manning and Scott 1986, 157, no. 557) and Gorhambury (Wardle 1990, 146, no. 554 and 148, no. 595). L. 77mm, W. 16mm. Layer, Period V-VI	21	33	302 436 1218
6025	SF2809	Strip fragment, possibly perforated, possibly tapering either end. L. 45mm, W. 11mm. Layer, Period V-VI	20		302
6025	SF2812/ 2814	Two joining fragments of a strip with a rounded perforated terminal. This end is bent slightly, and the other end is probably broken across a bend in the opposite direction. Possibly a distorted fragment of a strap hinge. L. 78mm, W. 25mm, hole diam. 6mm. Layer, Period V-VI	20		302
6025	SF2814	Strip fragment, with a tessera corroded on. The blob on the edge on the X-ray is just corrosion. Joins SF2812 (fresh break). Layer, Period V-VI	20		303
6117	SF1640	Small tanged ?awl. Rectangular section with a chisel point of the same width, and a short tang. L. 45mm, section 4x3mm, tang L. 9mm. Pit 6127, Period V	10	49	302 436
6118	SF1651	Strip, with a shallow lengthwise curve, width probably complete, both ends broken. L. 112mm, W. 42mm.	20		303
6132	SF1643	Lump, heavy and roughly triangular. Possibly working waste. c 43x32x10mm.	20		304
6142	SF1650	A heavy bar with an irregular, sub-rectangular cross-section. The ends are rounded, but irregular. V.F. suggests that this is forging stock. L. 102mm, section c 23x24mm.	15		1218 1222 4487
6142	SF2975	Sheet fragment, roughly square and possibly complete. It has a perforation off centre. Possibly a crude washer. 34x32mm, hole W. 7mm.	20		302
6142	SF3009	Sheet fragment, almost semi-circular, broken across a rectangular or square perforation. Possibly a washer. L. 25mm, W. 40mm, hole W. 10mm.	20		302
6167	SF1664	Bar, with a square section, broken both ends. Possibly a nail shaft. L. 42mm.	20		302
6167	SF1665	Bar fragment, probably a nail shaft. L. 27mm.	20		302
6170	SF1663	Ring fragment, probably an oval loop, external dimensions c 50x43mm. There was a nail corroded on, not directly associated with the loop.	20		303 482
6212	SF2333	Broken knife tang, with the start of the blade. L. 54mm, W. of blade 16mm.	10		302
6219	SF2324	Part of a two-link snaffle bit, comprising two interlinked bars with looped ends, the loop incomplete at one end and missing at the other. The bars are roughly polygonal in section, and quite sturdy. L. of the more complete link 70mm, bar W. 12mm. Prepared surface, Period IV	8		304 436 482 483 1219 1222
6219	SF2325	Carpenter's dog, complete bar the point of one arm. A good example. L. 105mm, section of top 17xc10mm, L. of arm 50mm. SF2325, Prepared surface 6219, Area H, Period IV	11	47	4485
6226	SF2328 a	Strip fragment, probably with a rounded terminal, one end broken. Rectangular perforation, 9x7mm, L. 60mm, W. 37mm/	20		303
6226	SF2328 b	Strip terminal, rounded, with a circular perforation, diam. 7mm. L. 38mm, W. 22mm.	20		303
6226	SF2336	Bar fragment, broken both ends. 75x12xc8mm.	20		303
6226	SF2759	Curved bar fragment with a square section. One end is	111		304

6227	SF2337	probably original. Probably the tip of a latch lifter. Tube, probably part of a slightly tapering closed socket from a knife or tool. Both ends broken in antiquity. L. 58mm, diam. 14mm, tapering to 12x10mm.	10		303
6227	SF2343	Plate fragment, one end slightly curved, and probably perforated. \varnothing 40x28mm.	20		302 436
6227	SF2348	L-shaped lift key, stem incomplete and distorted. The bit had two teeth. L. 75mm.	111		304 436
6227	SF2350	Bar, rectangular section. One end is squared off, the other rounded and damaged. Probably an offcut from metal working. L. 71mm, section 23x9mm.	15		304
6227	SF2351	Bar, curved slightly lengthwise. Both ends were probably broken in antiquity. The edge appears to be notched on the X-ray, but this is just an effect of corrosion. 104x23x8mm.	20		1219 1222 4485
6238	SF2751	A small hot chisel. The short, solid handle has a circular top, diam. 18mm, tapering fairly abruptly to a slightly splayed blade, tip damaged in antiquity. L. 70mm, blade W. 17mm. SF2751, Layer 6238, AreaH, Period IV-V	10	32	303 1218
6253	SF2332	Tanged fork, with traces of the wooden handle. The end of the handle was bound by a cylindrical ferrule. The tip of one prong is missing. Mineralised wood is present, almost certainly ash (identification by MB). L. 82mm, diam. of ferrule 32mm. Layer, period IV	10	x	521
It is well known that the Romans did not use forks for eating, so this is presumably a tool. It is surely too small to be a pitchfork, although the claimed Roman pitchfork (an unstratified find) from Rushall Down, Wilts., is only 105mm long (Rees 1979, 483).					
6253	SF2334	Irregular lump, possibly the butt of a hammer or small axe, with part of the curved edge of the socket present. W. 38mm, L. 34mm. Layer, period IV	20		304
6319	SF2816	Bar fragment with one end bent. The section appears to taper abruptly at this end, so it is possibly not just a nail shaft. L. 60mm.	20		302 436
6350	SF2363	Stud, with a large flat circular head, and a short shank, possibly complete. Head diam. 30mm, L. 20mm.	11		302 436
6367	SF2370	Amorphous lump. Working waste. \varnothing 28x22x22mm.	15		303 1219
7000	SF2811	Sheet fragment with one straight edge, two edges with recent breaks and one with an old break. 30x20mm.	20		302
7073	SF1122	Plate fragment, square ended. 33x39mm.	20		304 436
7086	SF1117	a) Rod with circular section, slightly tapered. Complete as buried. L 215mm, diam. 5-9mm.	20		1077 4485
7086	SF1117	b) Strip, complete as buried. 20mm of each end is bent up symmetrically, at an angle of \varnothing 45°. There is no indication of any perforations. W. 19mm, overall L. 96mm.	20		1077 4485
7115	SF1139	Rod with a ring head, broken in antiquity. The other end of the rod is broken, possibly at the base of another loop. L. 65mm, loop external diam. 21mm, rod W. 6mm, section unknown. This is possibly part of a horse bit, but is more likely to be part of a chain assembly.	20		302
Box VII					
7195	SF2819	Blade fragment, fresh break. L. 28mm, W. 22mm.	10		343
7268	SF2848	Curved bar, possibly part of a handle. The section is uncertain, probably circular. It has a regular curve with an external diam. of \varnothing 200mm. L. 160mm, section W. \varnothing 5mm.	20		347

8000	SF1496	Split spiked loop, points damaged. Rectangular section c 7x9mm, L. 75mm, W. across loop 30mm.	11	345
8000	SF1497	Strip, one end curved. 83x26mm.	20	345
8065	SF2121	Bar fragment, rectangular section. L. 50mm, section 21x17mm.	20	347 437
8080	SF2783	Bar fragment, possibly with a protrusion on one side. L. 40mm, section c 8x4mm.	20	343
8094	SF1361	Strip, with recent breaks at both ends. The section is variable; predominantly triangular with a slightly thickened back, but rectangular adjacent to the hole. The width is also variable, probably partly due to damage, and it is broadest at the point with the hole. There is an oval hole adjacent to the thinner edge. Although resembling a blade, the change to a rectangular section appears original. W. 16-21mm, max. th. 5mm, hole 9x7mm.	20	344 1319
8094	SF1362	Woolcomb fragment, with slightly splayed teeth, and a small part of the plate. The full width is not present. A second small fragment is probably part of the same object, but is very mineralised. 33x30mm.	3	347
8094	SF1370	Sheet fragment, probably with the complete width present. W. 73mm, L. 65mm.	20	346 437
8094	SF2749	L-shaped bar. The end of the longer arm is broken, and the end of the shorter arm may be broken. This is possibly part of a large staple. In good condition, with vivianite present (from a well context). Arm L. 88mm and 27mm. Rectangular section, 13x8mm.	20	345
8141	SF1376	Lump, heavily concreted, possibly a nail shaft. The X-ray was not very informative.	20	343
8141	SF1379	Square-sectioned rod, probably a staple. It is bent into a loop with one arm longer than the other, but is possibly incomplete and somewhat distorted. L. 104mm, W. across loop 21mm.	11	343
8141	SF1381	Perforated strip, with a globule of lead or copper alloy in the matrix. 45x23mm, oval hole, 11x8mm.	20	347
8141	SF1382	Lump of working waste.	15	347
8141	SF2757	Leaf shaped terminal, probably from a strip, possibly perforated. L. 67mm, strip W. 15mm, terminal W. 28mm.	20	346
8153	SF1385	Rod, section unknown. It has been formed into a ring of 1½ coils, like a large ox goad. Possibly a ferrule. Diam. 32mm, ht. 20mm, W. of rod 6mm.	20	437
8167	SF2795	Blade fragment, with fresh breaks. L. 43mm, max. W. 20mm.	10	343
8167	SF2817	Staple, flat topped, with one point missing. Square section. W. 37mm, arm L. 48mm. SF2817, Fill 8167, Well 8188, Area E, Period III	11	346
8167	SF2818	Plate fragment? Edge unclear on X-ray, some fresh breaks present. c 45x10x6mm.	20	344
9039	SF1538	Bucket handle, c 50%. In three joining pieces, one of which has come out very poorly on the X-ray, as the metal is extremely mineralised. The handle has a rectangular section, hooked at one end, with a strip hand-hold curved widthwise. It is similar to Manning P18. From a bucket of diam. c 240mm. The drop of the handle is c 170mm. Section 14x5mm. The condition of the metal is typical of a water-logged context such as a well.	4	4533
9053	SF1534	Thick strip. 74x15x9mm.	20	346 437
9064	SF1547	Fragment from an unidentified object, comprising a curved bar fragment with a rectangular section, one end broken in antiquity. A plate is integral with, or attached to the underside of the curve at the other end. This end has fresh breaks. It is unclear whether the plate extended on both sides of the bar.	20	345 437 484 1077

		This could be part of a handle, part of a large padlock or something else. Vivianite is present. L. 65mm, section 14x9mm.			
9064	SF1548	Vessel rim, from a vertically sided vessel with a right-angled corner. The rim was formed by bending the edge of the sheet over to form a squared bead, now variable in section because of loss of metal due to corrosion. It survives to a height of 38mm. SF1548, Fill 9064, Pit 9029, Area D, Period III C	4	x	347
9217	SF1560	Bar fragment, damaged and incomplete. It has a possible 'tang' at one end, and may be part of a blank for a knife. L. 57mm, W. 26mm.	20		346
9231	SF1556	Object, probably a nail with the top of the head missing. The top of the shaft is hollow, with a flange round it, but this apparent 'socket' is probably just an effect of corrosion. L. 49mm.	20		343
9272	SF2941	Thick sheet with irregular edges. V.F. notes that the edges appear to be complete, which suggests that this is working waste. 45x24mm	15		343 1221
10000	SF1470	Object made from thick sheet, formed into a channel with a U-shaped profile. One end is squared, and probably original, the other is broken. It broadens slightly towards the broken end. The edges are damaged, but probably original. It has a large, square hole set centrally towards the complete end, with a smaller rectangular hole towards the broken end. It is possibly broken across a third hole. There are flecks of lead in the corrosion. The object is in poor condition, and the edges were unclear on the X-ray at the broken end. The surface was too poor for the conservator to define. The object is now fragmentary. L. 150mm, W. c75-100mm; depth of channel c 58mm; holes 22x22mm and 10x8mm. Pit 100062, Period IV	8	x	376 4540
		This is probably a pole binding from a vehicle. The placement of the large hole, through which the yoke pin would have passed, is similar to that on the pole binding from Newstead illustrated by Manning (1985, 75, fig. 21.2), although the form is somewhat different. The pole tips illustrated by Manning are flat strips, with flanges at the end bent round to enclose the pole. There is no sign that the Elms Farm piece ever had flanges at the end. Any parallels?			
10031	SF2801	Sheet fragment, complete as buried. It has very irregular edges. One corner has a narrow tapering strip bent back towards the sheet to form a loop. V.F. suggests that this is an offcut. 42x40mm	15		343 437 1221
10054	SF1834	Strip fragment with a rounded terminal, perforated. On the X-ray it appears that the loop was made by bending the end of the bar round and hammering it down well, rather than by punching a hole through. This type of loop was often used on latchlifter handles, but this would be very large for a latchlifter, and it is more likely to be a bucket handle mount, broken just above the where the first rivet would have been. L. 54mm, W. 32mm, hole diam. 14mm.	4		344
10061	SF2120	Sheet fragment, possibly perforated. It only has one definite original straight edge. c 76x50mm.	20		344 437
10088	SF7292	Small punch, probably complete, with a rectangular section, becoming oval towards the wedge point. The head is slightly burred. This simple type of punch closely resembles a nail shaft, and without cleaning, would have been indistinguishable from one. It is possible that many of the 'nail shafts' identified were simple small tools like this example. L. 48mm, max.	10	50	343 1221

10095	SF2122	section 9x7mm, blade W. 4mm. Pit 10089, Period IV Blade fragment, fresh breaks either end. L. 40mm, W. 15-18mm.	10		343
10104	SF2186	A tapering bar, complete as buried, with a slightly burred head and a blunt point. This is probably a punch, though unusually flat for one. L. 73mm, max. section 17x7mm. Layer, Period IV	10	x	434 1221
10104	SF2188	Strip fragment, slightly tapering. One end has a fresh break, the other is possibly complete. L. 111mm, W. 8-10mm. Layer, Period IV	20		345
10104	SF2191	Sheet fragment, probably broken across a small perforation. One straight edge survives. \leq 56x32mm, hole diam. 2mm. Layer, Period IV	20		346
10104	SF2192	Strip fragment, tapering, broken at both ends. L. 44mm, W. 17-25mm. Layer, Period IV	20		343
10104	SF2197	L-shaped bar, damaged at the bend. One end is possibly original, and may be hollowed. If the bend is not original, this could be part of a spoon bit, but the damage to the object means that this is difficult to determine. L. 75mm. Layer, Period IV	20		343 437
10115	SF2194	Double spiked loop, arms incomplete, made from a square-sectioned bar. L. 87mm, W. of loop 34mm.	11		344
10182	SF2213	Curved, tapering strip, probably a broken collar, possibly perforated. Both ends have fresh breaks. External diam. 31mm, W. 11-17mm.	20		343
10235	SF3010	Three lumps, very concreted and corroded. One is possibly a nail shaft, the other two have no good metal left.	20		345
10236	SF2224	Key handle, from a lift key, shape as Manning O29, with a rectangular sectioned handle looped at the end, with shoulders to a narrower shank. L. 145mm, handle section 15x6mm.	111		344 437
10236	SF2974	Carpenters dog, one complete short arm, other arm missing. L. 70mm, arm L. 22mm, section 11x8mm.	11		343
10250	SF2231	Punch or chisel. A bar, tapering to a wedged blade, broken or blunted in antiquity. The head is probably slightly burred, with a slight bulge below it. L. 77mm, max. section 15x13mm. SF2231, Cleaning layer 10250, Area F, not phased	10	45	345 437
10255	SF2237	Tapering strip, rounded at one end, other end broken. Slightly curved lengthwise along its narrow face. Possibly a rake prong. L. 104mm, max. W. 14mm, th. 5mm.	20		344
10259	SF2236	Tanged strip, both ends missing. The tang is bent at \leq 90°, and the tip at \leq 45°. While superficially resembling a narrow bladed trowel, it seems more likely that this is a knife, discarded during manufacture. The tang appears to be set off centre, though not in line with the back (the X-ray is unclear), and the blade is thick, with no sharpened edge. The edge which would have been the back is slightly angled towards the tip, as, for example, Manning Type 17. L. (flat) 169mm, W. of blade 25mm.	15		347 1220
11000	SF1568	Tapering bar, probably a nail shaft, although it could be part of a tool. The point is missing. L. 88mm, W. 12mm.	20		347
11000	SF2831	Strip, with a plano-convex section. One end tapers symmetrically to a rounded point, while the other is broken at the beginning of a centrally set ?tang. This resembles a blade, but the section is wrong for such a use. Possibly post-Roman. L. 130mm, W. 33mm, Th. 7mm.	20		346 1220
11000	SF2890	Tapering bar fragment. L. 46mm, W. 15-20mm, Th. 9mm.	20		343
11000	SF2992	Ring. External diam. 59mm, internal diam. 46mm.	20		344

Iron Box VIII

6000	SF432	Blade fragment, from near the tip. L. 34mm, W. 16mm.	10		349
6000	SF439	Lump. \varnothing 23x18x16mm.	20		348
					1247
6000	SF441	U-shaped bar, broken both ends. L. 32mm, W. 36mm.	20		348
6000	SF459	Hemispherical object with a concave base. This is relatively heavy for its size, and the surface survives in good condition in places. It is possibly cast iron; if so, it is probably post-medieval. It may be a robust bolt head, but there is not enough detail on the X-rays to indicate whether a shaft has broken off. Diam. 46mm, ht. 27mm.	20		350
					1247
6000	SF460	Bar fragment, damaged. 40x26x10mm.	20		348
6000	SF464	Object, probably a tool. The head is slightly thickened, and probably complete. The shaft is flaked, with damage to the tip. The section is at least partly square. This is very similar to SF465. L. 114mm, max. W. 15mm.	20		348
6000	SF465	Spike or nail shaft? The point is complete, but the other end is too indistinct on the X-ray to be certain whether it is complete. L. 78mm.	11		350
					443
6000	SF467	Bar fragment, slightly tapering, section uncertain. L. 110mm, max. W. 10mm.	20		350
6000	SF469	Irregular lump, probably working waste. \varnothing 32x17x10mm.	15		348
					443
6000	SF850	Strip, probably with one complete squared end, perforated, and possibly with a nail or rivet shaft in place. The other end as seen on the X-ray is not very clear; the strip may broaden out, and curve back on itself. Alternatively, there may be a separate sheet fragment corroded on. Given the nature of the context, it is not worth spending the further time needed to clarify this object. L. 51mm, W. of strip 7mm. Sheet fragment? 19x13mm.	20		348
					443
6000	SF853	Bar fragment, probably with one end rolled into a loop, other end broken. Possibly a padlock key, although it appears to be wider in the middle, which would be unusual for such an object. L. 60mm, W. 10-15mm.	20		348
6000	SF854	Probable punch, with the head probably complete, though with no trace of burring, and the other end damaged. It probably tapered abruptly to a point. Section uncertain. L. 81mm, W. 14mm.	10		348
7000	SF1096	Rod, circular section. One end tapers to a blunt point. The other end has a constriction 36mm from the end. Below this, the section is square, tapering to the tip, the last 4mm of which is turned up. L. 272mm, max. W. 12mm. Machining layer	20	x	350
7000	SF1829	Oval plate, probably with two perforations in the middle, tapering to a thicker bar at either end, both broken. The section of one bar is possibly rectangular, the other round. L. 115mm, max. W. 37mm. Machining layer	20	x	350
7000	SF2414	U-shaped rod, forming \varnothing 60% of a circle, and possibly originally a ring. One end is original, the other probably broken. Ext. diam. 38mm, int. diam. 28mm.	20		349
7000	SF4377	T-clamp, shaft broken, as Manning R68. Head W. 104mm.	11		349
7000	SF491	Bar fragment. 35x11x10mm.	20		348
					443
7000	SF496	Three sheet fragments, damaged, probably all part of the same object. There is at least one perforation present. The curvature suggests that this was part of a vessel, or binding from, for example, a bucket. The largest piece is \varnothing 82x37mm.	20		349
7000	SF500	Probable blade fragment, broken across the start of the tang. Blade edge damaged. L. 55mm, W. 35mm.	10		349
7000	SF512	Drop handle, with one knobbed terminal surviving. Similar to a handle from Gorhambury (Wardle 1990, 146, no. 531), but	4	x	348

		with a more rounded knob. W. 92mm, drop \leq 45mm. Original W. \leq 110mm. SF512, Machining layer 7000, Area G.		
		Iron drop handles are relatively rare compared to copper alloy ones.		
7000	SF522	Strip fragment, probably broken across a perforation, diam. \leq 10mm. L. 30mm, W. 35mm.	20	349
7000	SF538	Sheet fragments, probably all joining, but original shape uncertain. No perforations. At least 60x55mm.	20	349
8000	SF1334	Lump, roughly rectangular, with irregular edges and section. Probably metal-working debris. \leq 50x18x10mm.	15	349
8000	SF1501	Padlock key. Strip handle with end loop missing (recent break), square bit with square cut-out. In good condition. L. 137mm, W. of bit 19mm.	111	348
8000	SF1779	Thick strip, curved width-wise, broken both ends. L. 83mm, W. 27mm, Th. 4mm.	20	349
8000	SF1812	Linchpin, complete. Manning type 2b, with an elongated D-shaped head, and a step on the back of the stem. L. 185mm, head 50x47mm, section \leq 17x17mm-17x13mm	8	366 4534 4537
8000	SF1828	Tapering bar, with fresh break at one end. The other end has a blunt point. Probably a tool fragment. L. 52mm, rectangular section, max. 16x11mm.	20	348

Iron Box IX Not X-rayed

Cont.	SF	Description	Func.	X-ray
3999	SF8127	Spike, probably with a broken snap-link on the end. Post-medieval	11	0
3999	SF8129	Rod with a sub-spherical knobbed terminal. The other end is a subtended quarter circle. Part of farm machinery? L. 178mm.	20	0
4000	SF1003	Horseshoe, 75%, rather U-shaped. Slightly thickened heel. Nail holes not visible. L. 117mm, W. \leq 114mm.	8	0
4000	SF1974	Horseshoe, complete bar damage to one edge. Branches are different widths, no calkins. Rectangular nail holes with a slight groove between them, inverted pyramidal headed nails. Probably 4/4. Post-med. L. 120mm, W. \leq 118mm.	8	0
4000	SF2784	Horseshoe, complete. A very large shoe with a toe clip, and narrow branches relative to its size. No calkins, nail holes not visible. L. 174mm, W. 155mm. C19-20	8	0
4000	SF7202	Two circular washers. Modern	11	0
4000	SF7202	Bracket with looped attachment. Very good condition. C20.	11	0
4000	SF7202	Very solid, square screw bolt head. Modern.	11	0
8000	SF1330	Horseshoe, 50%. No calkin, probably had a toe clip, now missing. - /3? L. 110mm. Post-med.	8	0
11000	SF2669	Horseshoe, 75%. Fullered, calkins if any, missing, nail holes not visible. L. \leq 127mm, W. \leq 125mm.	8	0
11000	SF7200	S-link, probably from harness. Probably post-med. L. 44mm.	8	0
11000	SF7200	Hook, or possibly a small crank tang, welded? onto a back plate which is now broken. Probably post-med. L. 51mm.	20	0
11000	SF7200	Penknife blade fragment with part of the handle. Traces of ?horn handle plates. Post-med. Probably same object as penknife SF7203.	10	0
12262	SF6388	Pony or donkey shoe, complete bar slight damage, rather thick for its size. Thickened heels, toe clip, one nail visible on each branch. Post-med, probably 19th cent. L. 103mm, W. 90mm.	8	0
17000		U-shaped shackle with oval chain link through one loop, other loop broken. Post-med. L. 90mm, W. 123mm.	11	0
17000		Figure-of-eight chain link attached to rectangular chain link. Probably from post-medieval farm equipment.	11	0
17000		Small rectangular block, apparently complete and unperforated. Probably modern.	20	0
17000	SF7203	Part of a pen-knife handle, very similar to SF7200, with traces of ?horn handle plates. Post-med.	10	0

17000	SF7203	Globular weight with a top loop, and parts of two or three chain links attached. Possibly has a spike on the bottom, so could be a plumb bob. Possibly Roman. Diam. 16mm.	6	0
17000	SF7203	Whittle tang knife, with a rectangular hilt plate, possible integral. Probably post-medieval.	10	0
17000	SF7330	Horseshoe, complete, with upturned calkin on one heel only. Unfullered. 3/4. Post-med. L. 130mm, W. 125mm.	8	0

Box X

9513	SF3302	Blade fragment, parallel-sided, with rather rounded tip. L. 112mm, W. 23mm.	10		353
9601	SF4915	Strip with D-shaped section and rounded ends. There are no apparent perforations. L. 206mm, W. 17mm, Th. 7mm.	20		355
9603	SF4925	Rod, slightly curved, probably circular in section. Very concreted. Possibly complete. L. c 220mm, diam. 11mm.	20		354
9628	SF4912	Bar fragment, damaged. Possibly a nail shaft. 40x10x10mm.	20		352
9648	SF4920	Sheet fragment with one original straight edge, broken across a probable perforation. 30x20mm.	20		352
9683	SF4923	Bar, apparently complete. Slightly tapering, with one end squared and the other curving slightly to one side, and rounded. There is a red deposit on the surface, probably haematite. L. 72mm, max. W. 19mm, Th. 12mm.	20		353 444
9699	SF4924	Lump; a fairly regular, roughly rectangular shape with slightly concave sides. Metalworking waste? C 44x25x17mm.	20		354
9703	SF4926	Cuboid lump, probably working waste, though could be the slightly expanded head of a punch.	20		353 444
10049	SF5298	Strip fragment, broken both ends. 30x7mm.	20		352
10138	SF5290	Sheet fragment, probably with one straight edge, other edges broken. Completely covered in a pebbly concretion. The X-rays are vague. c 50x40mm.	20		353 444
10280	SF5260	a) Lump, possibly metal working debris. C 40x22x?15mm.	20		353
10280	SF5260	b) Tapering strip fragment, folded in half. Possibly perforated, but the metal is very mineralised. L. c 45mm, W. 1-25mm.	20		353
10280	SF5260	c) Plate fragment with one straight edge, other edges broken. c 52x30mm.	20		353
10289	SF3467	Unidentified object resembling a U-shaped drop-hinge, but with a spike pointing outwards on one side at the open end. The other terminal has a flat base. The inner faces at the open end have a complex, curved profile, one the negative of the other. L. 147mm, W. 35mm, rectangular section 12x4mm, narrowing slightly towards the terminals. Spread, Period IV	20	35	353 1245
		This is probably a metal working tool. The spike could have been mounted in a block of wood or other surface, and the shaped inner edges used as a die to stamp sheet metal. D. Dungworth thinks it's a combination swage and former.			
10289	SF3477	Bar with rectangular section, tapering to a point, and slightly curved lengthwise. Possibly a rake prong. L. 126mm, max. section 10x5mm. Spread, Period IV	20		352 444
10291	SF4399	Strip, edges cracked, width variable. Complete as buried. Covered in a pebbly concretion. L. 134mm, W. 23-33mm, th. c 3mm. Possibly working waste.	20		4532
10293	SF5299	Tapering bar, with the end turned over by about 12mm. Heavily concreted, completeness uncertain. L. 67mm, W. 23-25mm, Th. 8mm.	20		353 444
10296	SF3970	a) Four rod fragments, possibly nail shafts.	20		352
10296	SF3970	b) Irregular bar, probably working waste. c 40x12x8mm.	20		352
10296	SF3970	c) Strip, broken just beyond a right-angled bend. The other end of the strip has a tang, the point of which is missing, with a	20		352

		rectangular section. Possibly a distorted knife, although there is no edge apparent. L. 97mm, W. 22mm. Tang L. 46mm.			
10319	SF3492	Woolcomb fragment. The extant end tooth is inserted. Surviving W. 51mm, L. 50mm. Unknown feature 10322, Period III	3	161	352
10319	SF3499	Double spiked loop, made from a strip 18mm wide. One point was broken off in antiquity, the other is bent outwards, and probably has its complete length, although the edge may be damaged. L. 102mm, W. across head 31mm. Unknown feature 10322, Period III	11	x	354
10320	SF3491	Scale tang, probably a knife handle. Both ends are broken. It has two iron rivets protruding 3-4mm either side. There are traces of organic matter on the surface. V.F. notes that there is insufficient surviving for an identification, but the striations suggest wood or horn. L. 46mm, section 16x 4mm.	10		352
10320	SF3503	Bar, probably with a square section. One end may have broken in antiquity. The other has the triangular shape of a simple chisel, but is not edged. L. 48mm, W. 8mm, max. W. 19mm.	20		352 1386
10330	SF4020	Lump, vaguely wedge shaped, probably working waste. \varnothing 32x18x8mm.	15		352
10330	SF4023	Loop, possibly complete. It is formed from a strip with flattened ends, one of which has been formed into a closed loop. The other, longer, end is bent outwards at \varnothing 145°. W. of loop 18mm, L. (straight) 42mm, section 5x4mm – 6x2mm.	20		351 1245
10337	SF3983	Bar fragment with a square section, tapering slightly and with fresh breaks at both ends. Possibly a heavy duty nail shaft, or perhaps a spike such as SF3985, from the same context. There are red corrosion products on the surface (cf e.g. 9683), and possible mineralised wood. L. 90mm, W. 8-12mm.	20		352
10337	SF3985	Spike, pointed at both ends, square sectioned. Red corrosion products on the surface. L. 219mm, max. W. 13mm. What could such a spike be used for? Ditch 10404, Period V-VI	11	46	354
10362	SF3999	Knife with a flat handle, terminating in a suspension loop. There are no rivet holes present. The edge of the loop may be thickened on the tang side. L. 186mm, max. W. 32mm W. of tang 16mm. SF3999, Fill 10362, Ditch 10538, Area F, Period V-VI	10	152	354 355
10362	SF4028	Strip fragment, with a recent break at one end. The other end is rounded, and possibly complete. L. 17mm, W. 15mm.	20		352
10372	SF4004	Strap fragment with D-shaped section, broken both ends. L. 54mm, W. 20mm.	20		351
10372	SF4016	Spike, with regularly tapering rectangular section of constant thickness. The broad end was probably broken in antiquity. In good condition. L. 146mm, max. W. 16mm, Th. 9mm.	11		354 355
10393	SF5214	Object, probably a staple with a narrow, flat top, and long arms, one incomplete and the other almost entirely broken off in antiquity. Top 25x15mm, surviving arm length 64mm.	11		351 444
10492	SF4396	Plate fragment, curved across the width. None of the edges are necessarily original. 48x24xmm.	20		351
10496	SF4639	Lump of working waste, possibly with a nail fragment corroded onto it.	15		351
10496	SF4649	Strip fragment. One end has a fresh break, the other is possibly complete. 27x12mm.	20		351
10496	SF4653	Thin, crescentic blade fragment, with the edge on the concave side, narrowing towards the incomplete tip. Probably part of a small pruning hook. L. 75mm, max. W. 19mm.	12		351 1245
10496	SF4660	Lump of working waste.	15		351
10496	SF5195	Strip fragment, 14mm at the end bent over. This end may be complete; the other end is broken. L. 49mm, W. 8mm.	20		351
10496	SF5212	Lump, probably metal working debris. Irregular, with fuzzy	15		354

10502	SF4647	edges on the X-ray. There is a pot rim corroded on. \varnothing 52x34x? Wedge or chisel blade. The thin end is slightly splayed, and was damaged in antiquity, making it impossible to say whether the edge was bevelled. Appears to be complete as buried. L. 60mm, W. 13mm, max. Th. 15mm. In good condition.	10	354 355
10502	SF4650	Small rectangular bar fragment, no good metal surviving.	20	351
10507	SF4658	Tapering bar fragment, tip damaged. Possibly a punch. L. 72mm, max. section 14x10mm.	20	353 444
10519	SF5272	Lump, roughly teardrop shaped. Probably working waste. \varnothing 27x19x10mm.	15	351

Box XI Objects not worth X-raying, from the bulk nails

4140	Two small fragments.	20
4757	Fragment, probably the head from a punch. It is badly flaked and incomplete, and probably has a round head.	10
4899	Rod fragment, broken at both ends. Diam. 5mm, L. 38mm.	20
5163	Lump, unlikely to be any good metal surviving.	20

Box XII Objects not worth X-raying, from the bulk nails

5453	Curved bar, both ends broken, in good condition. The section is rounded. Probably a broken hook. L. 130mm.	20
5499	Tapering bar, surface flaked, broken both ends. Probably part of a tool.	20
5598	Two small lumps	20

Box XIII Objects not worth X-raying, from the bulk nails

5603	Small plate fragment, no surviving edges	20
5809	Bar fragment, with variable section, square to lentoid. L. 44mm, section 7x7mm to 7x3mm.	20

Box XIV Objects not worth X-raying, from the bulk nails

6008	Bar fragment, \varnothing 70x11x11mm. Poor condition.	20
6414	Small unidentifiable fragment.	20

Box XV Objects not worth X-raying, from the bulk nails

7598	Wire fragment, possibly part of a needle. Diam. 1mm, L. 18mm.	20
10005	Fragment, possibly a nail head.	20

Box XVI Objects not worth X-raying, from the bulk nails

10138	Small curved sheet fragment	20
10289	Bar fragment, broken. Probably a blade or tool tang.	20

Box XVII

Objects extracted from the bulk iron nails, for X-ray, Feb. 1996

4015	Bar fragment, both ends broken in antiquity. One end is flattened. 32x7x7mm.	20	634
4200	Bar fragment, with a variable section. One end has a fresh break, the other was broken in antiquity. L. 111mm, section \varnothing 7x5mm – 7x3mm.	20	634
4540	Probable flat-topped staple. L-shaped bar fragment, the end of the shorter arm pointed. The other end was twisted and broken in antiquity. Arm L. 75mm and 39mm, section 9x5mm.	11	633
4540	Small V-shaped bar of variable section, tapering slightly to the broken tip. The section appears to change from rectangular to circular near the	20	x 633

	tip. The other end is formed into a neat loop. It is uncertain whether the object was originally straight; there are no signs of stress to the metal on the X-ray. It could be part of a toilet implement, although these are extremely rare in iron. It was originally thought to be part of a brooch foot (there is an iron brooch head from the context), on the evidence of the X-ray, but the looped end rules out this interpretation. L. 24mm, loop W. 4mm, max. section 4x2mm.		
4540	Two strip fragments, one possibly a distorted staple fragment. 39x6mm and 61x7mm.	20	633
4683	Probable small tool. It resembles a simple chisel, but the blade is very short, and set at an obtuse angle to the tang, the very tip of which is missing. The X-ray appears to show a quite sharp edge to the blade. This may be a bent chisel, or the angle at which the blade is set may be deliberate, in which case this may be a small scraper. L. 52mm, 'blade' W. 13mm.	10	634
4777	Bar fragment. The tip is bifurcated, with a small spur continuing the line of the bar, and a short, thicker branch at c 80°. It could possibly be a fragment of a small lamp hanger, although it feels more like a bit of working waste. L. 29mm, W. 4mm.	20	633
4798	Bar fragment, with a fresh break at one end. The section appears to be irregular, with an irregular knob on the end, fissured along one side. Probably working waste. L. 59mm, W. 8mm.	15	634
4801	Bar, with a very irregular profile. The edges appear wispy on the X-ray. Probably working waste. L. 69mm, W. 3-12mm.	15	632
4830	Strip fragment, probably with a D-shaped section. L. 32mm, section 6x3mm.	20	634
4837	Small lump of spongy working waste.	15	634
4842	L- or T-clamp. It has only one surviving arm, and it is uncertain whether it ever had two. The part of the arm immediately above the shaft is broader than the arm itself, but not so thick. The end of the arm is missing. L. 66mm, arm L. 33mm, section 8x4mm.	11	634
4842	Small simple chisel, with the end of the tang missing. L. 33mm, blade W. 8mm.	10	634
5066	Strip, slightly tapering. L. 30mm, W. 7-5mm.	20	632
5092	Strip fragment, tapering. L. 37mm, W. 9-5mm.	20	634
5148	Bar, bent into an L-shape. One end tapers, the other is flattened and bent over. Possibly scrap metal. L. 36mm, section 8x7-7x3mm.	20	631
5148	Bar, rectangular section, tapering, and with a variable thickness. Possibly working waste. L. 36mm, section 8x7-7x3mm.	20	631
5151	Two small lumps.	20	627
5161	Probable stylus eraser, with part of the shaft, which has sustained recent damage. The shaft probably has a circular section. The eraser is a simple flared shape, with no shoulders. L. 63mm, eraser L. 20mm, max. W. 9mm.	7	632
5161	Strip fragment, slightly bent. 38x4x2mm.	20	632
5210	Wire fragment. One end has a fresh break, the other an old break. L. 49mm, diam. 1.4mm.	20	631
5229	Flat-topped staple, with one complete and one half complete arm. Crossbar 30x8x5mm, arm L. 35mm.	11	632
5229	Possible distorted simple chisel. The shaft is complete and bent, with the head curved back on itself. The head is clearly flattened, and probably flared, although no details are visible on the X-ray. L. 49mm, head W. c 14mm.	11	632
5305	Probable awl. Rod, section unknown, with one end pointed, the other broken in antiquity. The shaft is swollen, closer to the pointed end than the broken end. L. 67mm, max. W. 4mm.	10	631
5306	Small bar fragment, complete as buried. Both ends have blunt points. In poor condition. L. 36mm, section c 4x4mm.	20	634
5383	Rod fragment, probably with a circular section. One end is pointed, the other has a fresh break. The middle of the rod swells slightly. Possibly	20	633

	an awl. L. 60mm, max. diam. 3mm.		
5392	Probable flat-topped staple arm, complete, broken at the start of the crossbar. L. 63mm, max. section 4x4mm.	11	631
5409	Unidentified. A fragment from an object, surface flaked. It is possibly just two incomplete nails corroded together side by side, but might be part of a padlock bolt. There is too little detail on the X-ray, and too little of the object surviving, to be certain. c 32x14x8mm.	20	634
5598	Bar fragment, complete as buried. The section and the edges are both irregular. One end is rounded, the other straight. Probably working waste. L. 52mm, section c 8x6mm.	15	631
5598	The rounded tip from a bar, broken in antiquity. The surface has flaked, revealing a hexagonal sectioned core, so presumably this was the section of the original object. L. 30mm, diam. 9mm.	20	631
5610	Four small lumps, the largest c 20x9x4mm.	20	626
5610	Possible needle fragment. A curved wire fragment, both ends broken. There is possibly an elongated eye present, although this may just be an effect of corrosion, particularly since it does not appear to be set in a groove. The X-ray is rather faint. . 25mm, diam. 1.5mm.	20	626
5610	Three bar fragments. c 20x10x6mm; 34x10x10mm; 30x9xc6mm.	20	626
5744	Bar fragment, one end flattened. This end was broken in antiquity. It is possibly a knife tang, broken across the start of the blade. L. 32mm.	20	634
5745	Bar fragment, with a slightly tapering, square section, one end flattened. This end was broken in antiquity. It is possibly a knife tang, broken across the start of the blade. L. 72mm, W. 4-14mm.	20	631
5864	Eleven lumps of very mineralised iron, in mineralised wood. The X-ray was faint. The other, identifiable, lumps in this group were nails, and these lumps probably are as well. The largest is c 44x8x8mm.	20	632
5864	Possible simple chisel. It resembles a slightly flaring stylus eraser, but the broken shaft has a square section, so it is more likely to be a chisel. L. 38mm, W. of blade 7mm.	10	634
5907	Tapering bar fragment, complete as buried. L. 42mm, section 7x3mm – 2.5x3mm.	20	630
5939	Strip fragment, complete as buried. 47x9xc5mm.	20	630
5945	Two joining fragments of a small double spiked loop, complete but distorted. It was made from a strip, section c 5x3mm. L. 33mm, W. across head c 14mm.	11	634
5951	Bar fragment, complete as buried. 47x9xc5mm.	20	631
6025	Probable punch. Tapering bar, probably with a rounded point, now damaged. The widest part is c 10mm below the head, which is flat. The section is uncertain, probably rectangular or oval. L. 87mm, max. section c 17x15mm.	10	626
6025	Strip fragment, complete as buried. One end is turned up slightly. L. 52mm, section c 4x2mm.	20	626
6025	The point from a bar, with the end gently curved. The other end has recent damage. This is more likely to be from an object such as a rake tine rather than a nail, as it does not taper until close to the point. L. 63mm, square? section, max. W. 12mm.	20	626
6029	Bar, gently curved, with no taper. If a nail shaft, it would be an exceptionally large one. L. 80mm, section c 10x10mm.	20	626
4152	Fragment, complete as buried. A tapering bar, resembling a nail shaft. The thicker end has been flattened to form a short strip, now bent. Probably working waste. L. 40mm, max. section 5x4mm.	15	650
5402	Small, fissured lump. Probably working waste.	15	650
4152	Unidentified object. A bar with a variable oval to rectangular section. One end is notched, forming two short prongs. The shank expands slightly before tapering to a probable chisel point. This end is probably nearly complete, though it has flaked slightly. L. 67mm, max. section W. 7.5mm.	20	x 650
4152	Bar fragment, with a fresh break at one end. 50x4x3mm	20	650
4881	Strip, complete as buried. Bent. 47x7x1mm.	20	650

4881	Tapering bar with a rectangular section. L. 51mm, section 9x4mm-5x3mm.	20		650
4881	Bar fragment, complete as buried, slightly tapering. L. 29mm, section 11x4mm-7x3mm	20		650

Box XVIIa

Objects extracted from the bulk iron nails, for X-ray, Feb. 1996

4014	Rod, one end broken in antiquity. The other end is neatly looped. The small size of the loop suggests that this is not a buckle tongue or brooch pin. L. 45mm, diam. 4mm, loop W. 7mm. Layer, Period IV	20	x	634
4049	Stylus. The point and eraser are missing. There are four reels above the point, all inlaid with copper alloy strips. The reel nearest the point is corrugated, and the third reel has eleven facets. L. 73mm. Pit 4048, Period III	7	x	631
4140	Curved, tapering bar, with the narrower end bent back into a hooked shape. This may simply be a bent nail shaft, but the curve looks very deliberate. Both ends were broken in antiquity. L. 45mm (straightened L. c 83mm), max. section 4x4mm.	20		634
4142	Irregular lump. c 22x8x6mm.	20		634
4142	Strip, slightly tapering, in the shape of half a horseshoe. The narrower end has a fresh break. L. 56mm, section 5x3mm-4x3mm.	20		634
4392	Possible suspension hook. This object probably started life as a double spiked loop, and was subsequently broken across the loop, and the remaining arm made into a crude loop. The section is variable. L. 55mm. Pit 4429, Period V	11	x	634
4392	Strip fragment. 32x4xc2mm.	20		634
4689	Ring, 50%. One end comes to a blunt point, the other was broken in antiquity. The section is slightly rounded. This was possibly a bracelet, as it is relatively slender for its diameter. External diam. 47mm, section W. 4mm.	20		633
4689	Strip, fresh breaks both ends. The section tapers, and it is broken across a bend at the narrower end. L. 35mm, section 7x4-4x4mm.	20		633
4689	Tapering bar with a rectangular section, and a chisel point. The end was damaged in antiquity, but has a small protrusion at right angles, suggesting that this could have been an L-shaped object such as a hinge pin. L. 74mm, max. section 15x10mm.	20		633
4954	Punch, with the head slightly expanded on the sides only. L. 66mm, blade W. 6mm. Pit 4943, Period IV	10	117	631
4994	Bar fragment, complete as buried. One end is probably pointed, the other slightly flattened. It is possibly a simple chisel, although most of the blade would be missing in this case. Bent and distorted. L. c 40mm, section c 8x6mm.	20		632
4994	Bar, variable section, complete as buried. One end has a square section, and tapers to a bluntly rounded end. The section is sub-circular towards the other end, which is slightly conical. This is probably a rather crudely made punch or similar tool, although there is no sign of burring to the head. In poor condition, flaking. L. 81mm, section c 9x5mm – 12x11mm. Pit 4989, not phased	10	166	632
4994	L-shaped bar fragment, both ends broken in antiquity. The width is slightly variable. Arm L. 17mm and 31mm, section c 8x4mm. Pit 4989, not phased	20		632
4994	Ox goad, Rees type 2. The socket contains mineralised wood, clearly the remains of the shaft. The wood extends most of the way up the prong, to within 4mm of the end. L. 31mm, diam. 14mm. Pit 4989, not phased	12	110	632
4994	Square-sectioned bar, with a solid conical terminal. The other end was broken in antiquity, at a bend. This is probably a fragment of a steelyard, bent and then broken. L. 82mm, bar W. 5mm. Terminal	6		632

	diam. 15mm, L. 14mm. Pit 4989, not phased			
5144	Strip fragment. 41x6x3mm.	20		629
5144	Stylus eraser, the shaft broken in antiquity. The eraser is a narrow rectangle, wedged and shouldered. L. 56mm, eraser 14x5mm.	7		629
5162	Bar, complete as buried. Oval section. At least one end was broken in antiquity. 111x17x13mm.	20		628
5162	T-staple, with a lenticular head, slightly curved. The shaft is incomplete. L. 49mm, head 37x15mm.	11		628
5162	Two wire fragments, probably parts of the same object. One is cranked. Diam. 3mm, L. 28mm and 37mm.	20		628
5214	Socketed object. It has a narrow, closed socket, gaping slightly along the seam, and a broken shank with a rectangular section. This is probably a chisel, with the blade missing. Overall L. 76mm, socket L. 45mm, diam. 12mm, shank section 9x6mm.	10		629
5214	Strip fragment, with a rectangular section. One end has a fresh break. 44x5x3mm.	20		629
5214	Two strip fragments. One has a D-shaped section, broken at both ends. L. 52mm, section 7x4mm. The other may have been part of the same object, although the section is less clearly D-shaped. One end has been distorted and twisted, possibly when it was broken. L. 44mm, section 8x4mm.	20		629
5228	Miniature spear. The shaft is bent, and probably had a circular section, now somewhat uncertain due to the effects of corrosion. Complete as buried. L. 48mm. Cleaning layer, Period V-VI	14	x	632
5228	Staple, with a D-shaped crossbar, one arm surviving. The other end was broken off in antiquity. The shape is unusual. L. 49mm, max. W. 14mm, th. 4mm, arm L. 19mm. Cleaning layer, Period V-VI	11	x	632
5374	Sheet object, very thin and fragile. It is a strip, with a bulge on one side. It is unclear which edges, if any, are broken. L. 62mm, W. 10-19mm.	20		632
5375	Bar fragment, X-ray vague. \leq 34x6x3mm. Ditch 5359, Period V-VI	20		631
5375	Carpenter's dog. Both arms are broken, though one is nearly complete. W. 52mm, section 6x4mm, max. arm L. 19mm. Ditch 5359, Period V-VI	11		631
5375	Object, complete as buried. It comprises a rectangular sectioned bar, broadening off-centre into an oval plate. A round hole has been punched through the oval, dishing it slightly. In poor condition, flaking. L. 90mm, max. W. 22mm, bar section 7x7mm. Ditch 5359, Period V-VI	20	x	631
5375	Rectangular block, complete as buried. 44x14x14mm. Ditch 5359, Period V-VI	20		631
5386	Bar, with a slightly irregular, variable section, mainly oval. Both ends are broken. At one end a sliver of metal has been split off and bent upwards to form a small curved prong, which is complete. This was the method used to form the prongs of flesh hooks, but this is unlikely to be part of a flesh hook, as the bar is very crudely finished, and the prong too short. It may simply be working waste. L. 82mm, section \leq 9x7mm, L. of prong 19mm.	20		631
5401	The tang and a small part of the blade of a knife. The tang is in line with the back. The blade was broken in antiquity, and there is also modern damage to the edge, so that the width is incomplete. Overall L. 60mm, tang L. 37mm, blade W. >18mm.	10		632
5472	Carpenter's dog, with one arm missing. It is unusually long for the thickness of the crossbar, with very short arms. L. 90mm, section 7x5mm, arm L. 16mm.	11		632
5472	Possible simple chisel, with a rather narrow inverted triangular head. The shank is curved, and was broken in antiquity. L. 43mm, head W. 8mm.	10		632
5502	Unidentified object, possibly scrap metal. It resembles a tanged blade, with a straight back, and a bolster between the tang and blade. The 'blade' is unedged, has been cut transversely close to the bolster (the	20		632

	edge is slightly bevelled), and is slightly dished. The bolster is almost the same thickness as the tang, which is bent at a slight angle. It seems unlikely that this is a gouge or chisel, as the blade is set asymmetrically. L. 68mm, W. of 'blade' 24mm, 'bolster' section 13x6mm, tang section 5x4mm.			
5543	Carpenter's dog, slightly curved lengthwise. Both arms are incomplete, although the longer one must be nearly complete, and is bent. L. 67mm, section 11x7mm, surviving arm L. 21mm.	11		631
5543	Possible simple chisel, with the tip of the tang missing. L. 40mm, W. of blade 9mm.	10		631
5597	L-shaped bar fragment. Arm L. 17mm and 10mm, section 8x3mm.	20		633
5597	Tapering strip, with a fresh break at one end. L. 38mm, section 8x4mm - 3x3mm.	20		633
5601	Bar, slightly tapering. One end is rather irregular, the other has been hammered over to form a slight flange along one of the broader faces. Probably scrap metal. L. 87mm, section 14x17mm - 22x12mm.	15		628
5601	Staple fragment? An L-shaped strip with a rectangular section. One arm is pointed, the other broken in antiquity. Section 7x5mm, arm L. 35mm and 34mm.	20		629
5602	Bar, one end probably broken in antiquity (masked by modern damage), the other rather irregular. Probably working waste. 66x12x9mm.	15		630
5602	Rod, circular section. One end is complete as buried, the other has a recent break. L. 81mm, diam. 11mm.	20		630
5602	The tip from a rod, with a blunt point. Slightly curved. L. 47mm, diam. 14mm.	20		630
5602	Wire ring, c 40%. Possibly a bracelet. Diam. c 64mm, section diam. 3mm.	20		630
5603	Bar fragment. Oval section, both ends probably broken in antiquity. L. 74mm, section 7x8.5mm.	20		630
5603	Irregular lump, probably working waste. c 20x17x?mm.	15		630
5603	Lump of working waste, spongy appearance on the X-ray.	15		630
5603	Ring, c 50%. Square section. External diam. 36mm, internal diam. 27mm.	20		630
5603	Three wire fragments. Two are straight, and complete as buried; L. 58mm, diam. 1.5mm; L. 60mm, diam. 2mm. The third is slightly curved, with a fresh break at one end. L. 48mm, diam. 3mm.	20		630
5603	Two pieces of scrap metal, probably working waste. One is a small, flattish fragment, with the end slit into three unequal parts. L. c 26mm, section c 8x4mm. The other is a bar with an irregular section, complete as buried. One end is a small irregular ball, with a transverse slit through it. L. 46mm, section c 7x5mm.	15		630
5628	Irregular piece of sheet, folded across the middle to form a V-shape, with the apex squashed together. Complete as buried, probably scrap metal. c 34x21mm (flat).	20		629
5662	Stylus, complete. The surface is in poor condition. The point is tear-drop shaped, and the eraser narrow, with only a slight flare. There are traces of moulding on the stem, with two shallow grooves on the neck between the eraser and the handle, and two more about 3mm further up. In addition, there are two bands with oblique, shallowly moulded lines. The section of the stem at the point end was faceted, probably with a pentagonal section, but the surface is in such poor condition that it is impossible to say whether the entire handle had the same section. L. 117mm. Cleaning layer, not phased	7	113	633
5864	Rod, one end pointed, the other broken in antiquity. In poor condition. The section is variable, square at the pointed end, round at the broken end. L. 92mm, W. 7mm.	20		627
5864	Tapering bar, broken at the narrower end. The other end was flattened, and formed into a loop. This is probably the handle from an object such as a key or latchlifter. L. 63mm, section 15x10mm-8x6mm. Loop diam. 15mm.	20		627

6000	Bar, complete as buried. The ends are slightly thinner, and one has a slight protuberance at the corner, suggesting that this may be incomplete carpenter's dog. 62x9x6mm.	20	629
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Box XVIII Objects extracted from the bulk and small find nails for X-ray, April 1996

Contexts 15355-24313

Context	Notes	Func	Draw	X-ray
15355	Bar, twisted around itself. One end is looped, and the other may have been, but was broken in antiquity. L. 66mm, loop W. 16mm, section 8x4mm.	20		364
15355	Cylindrical ferrule, made from a strip with the ends butted together. 24mm long, external diameter 16-19mm, th. c 1mm.	11		364
15574	Curved bar fragment. Possibly a large nail shaft, but it has little taper. Both ends probably have old breaks. L. 95mm, W. 6mm.	20		360
15586	Small lump with a bulbous end, narrowing to a blunt point. Complete as buried, possibly working waste. c 26x12x12mm.	20		361
15589	Edge binding, one end twisted and broken. It has a U-shaped section 5.5mm deep and 7mm wide. L. (straight) 98mm.	11		360
15610	Two nails? Not in box (may have been a mistake for 15612, which was in the box but not on the list.			
15612	Tapering bar, probably not a nail. It is possibly a simple chisel, but has no clearly defined blade. It might be a knife tang. One end is pointed, but this may not be original. The other end is probably somewhat flattened. L. 50mm, max. W. 11mm.	20		360
15812	Bar fragment, with the end bent at right angles. Section uncertain. L. of arms 73mm and 20mm, W. 5mm.	20		360
15897	Probable small punch. A bar with a slightly rounded section, with little taper. The head may be slightly burred, with a rather blunt chisel edge at the other end. L. 46mm, max. W. 9mm.	10		360
16051	Strip fragment with a slightly rounded end, probably original. The other end was broken in antiquity. 36x9x2mm.	20		360
16051	Strip fragment, with a very low flange along both edges. One end has recent damage, the other was broken in antiquity. Possibly part of a flanged tang. 30x14mm.	20		360
16073	Object, rather vague on the X-ray, and very mineralised. It is probably a double spiked loop, with the points missing. It certainly has a suitable shaped hole, but it is unclear whether it is a single strip, or bifurcated. L. 34mm, W. 12mm.	11		362
16081	Bar fragment in poor condition. 64x15x9mm.	20		362
16160	Roughly triangular plate fragment. 26x20mm, th. c 5mm.	20		363
16163	Circular swivel loop, in two pieces, with most of the perforation missing. A small part of the hook, which had a knobbed terminal, was corroded on. External diam. 60mm, rectangular section, c 8x4mm. Surviving L. of hook 27mm, terminal diam. 9mm.	11		363
16166	Lump, mostly corrosion products. There is possibly a small piece of sheet present.	20		359
16328	Bolt (holdfast), with circular head and rove (it is unclear which is which). The section is nearly circular. L. 52mm, diam of ends 36mm and 21mm, diam. of shank 8mm.	11		358
17062	Bar, with a bulbous head, and a variable asymmetric section. The other end was broken in antiquity. The surface is in poor condition, and the head was damaged in antiquity. This is possibly part of a tool such as a punch. L. 57mm, max. section 17x16mm, head diam. 17.5mm.	20	x	359
17150	Two strip fragments, possibly part of the same object, but not now joining. One is curved. 43x6xc3mm and 82x6x3mm.	20		358
18024	Bar fragment. One end has a blunt point, the other an old break. 38x12xc6mm.	20		358
19137	Bar. One end is complete, and slightly rounded. The other end was	20		358

Context	Notes	Func	Draw	X-ray
	broken in antiquity. The section is probably square. L. 59mm, W. 13mm.			
20000	Socketed bar, the socket broken in antiquity. The bar has a square section and a blunt point, which appears complete. It may be a ferrule, or a socketed punch. L. 89mm, max. diam. 12mm. Cleaning layer, not phased	20	x	358
20000	Stylus, point missing. The base of the narrow, elongated eraser is constricted, with two moulded rings. In two pieces. L. 130mm. Cleaning layer, not phased	7	x	358
20148	Bar fragment. 40x7x5mm.	20		357
20148	Bar fragment. One end has a fresh break. The other is complete, and evidently deliberately made into a flat beak-like shape. 40x7x5mm.	20		357
20196	Staple. Flat-topped, with part of one arm missing. W. 47mm, arm L. 40mm, rectangular section 5x3mm.	11		356
20334	Bar fragment, with a fresh break at one end. 42x14x5mm.	20		359
20488	Bar, complete as buried. It has a variable rectangular section, tapering to a blunt point at one end. The other end also tapers slightly, and is rounded. It is possibly a punch, although not as symmetrical as most examples. If it is a punch, it does not appear to have been used. L. 57mm, max. section 13x12mm.	20		358
20918	Rod fragment, with a circular section. The end bifurcates, with both branches broken close to the rod. L. 33mm, diam. 3mm.	20		356
21570	Stylus, in two non-joining pieces, probably nearly complete. The eraser is short and rectangular. There is a moulding immediately above the point, with two inlaid bands of copper alloy. L. > 98mm. Robber trench 21815, Period VI	7	x	356
21578	Probable nail. Not X-rayed			
21790	Bar fragment 43x7x7mm.	20		356
21908	Strip fragment, broken in antiquity. 29x10x2mm. (not X-rayed)	20		
21908	Probable small, tanged chisel, with a slightly splayed, rather elongated blade. Probably incomplete. Square-sectioned tang, blade W. c. 8mm, L. 73mm. (not X-rayed)	10		
23000	Probable nail. Not X-rayed			
23002	Probable flat topped staple, broken at the top of the arms. L. 76mm, section 7x3mm.	11		357
23002	Simple chisel, complete, with the end of the tang bent. L. 61mm, blade W. 16mm.	10		357
23005	Double spiked loop, points missing. L. 81mm, W. of head 18mm.	11		356
23010	Thick rod or bar fragment, section uncertain, bent. One end has a fresh break. L. (straight) 78mm, W. 12mm.	20		357
23057	Two-pronged hook with a flat cross-bar. The prongs have a regular and identical curve, making it unlikely that this is a staple. Cross-bar section 7x3mm, L. 42mm; prong L. (straight) 92mm.	11		357
23057	Tapering bar, bent in the middle. The broader end is slightly flattened, with an irregular surface. This is possibly ancient loss from the surface, but may be original. If the latter, this is probably working waste. L. 100mm, max. section 8x6.5mm.	20		357
23322	Rod, one end pointed, the other possibly pointed. The section is probably circular. In poor condition, disintegrated after cleaning. L. 83mm, diam. 4mm.	20		357
24003	Rod, with a variable section. It is in three sections, with a slight change of angle between each. One end has a square section, and is pointed. The centre has an oval section, with a slight constriction at each end. The other end is conical, with the tip missing. It is possibly a tool of some sort. L. 113mm, max. section W. 9mm.	20	x	357
24003	Strip fragment. 24x5x2mm.	20		357
24058	Bar, slightly twisted. 66x8x5mm	20		357
24058	Simple chisel, with a D-shaped blade. Complete. L. 45mm, blade W. 11mm.	10		357

Context	Notes	Func	Draw	X-ray
24058	Strip, with a spear point. The other end has a fresh break at a bend in the plane of the strip. 46x4x2mm.	20		357
24198	Bar, slightly undulating. One end has a blunt point, the other was broken in antiquity. Possibly a nail shaft. L. 85mm, section 7x7mm.	20		356
24198	Semi-circular loop with a circular section; probably from an object such as a hasp rather than a ring. External diam. 19mm, internal diam. 7mm.	20		356
24198	Ox goad, with two coils. Rees Type I. Almost complete, but flaking. L. 55mm, external diam. 15mm, internal diam. 10mm. Pit 24197, Period IV	12		356
24243	Strip, with a right-angled bend. Section 6x3mm, arm L. 27mm and 13mm.	20		359

Box XIX Nails for X-ray; Small finded nails; nails from soil samples; bulk iron additions, contexts 5307-15056

Context	SS	SF no	Func	D	X-ray
4715	661	Small lump, probably working waste.	15		347
4715	661	Three strip fragments. 8x7mm; 14x3mm; 22x5mm (bent in half).	20		347
4715	661	Fragment, possibly a hobnail shaft.	20		347
4777	670	Small, irregular fragment. \varnothing 17x8x6mm.	20		347
4874	689	Four fragments (broken in antiquity) of a type 2a needle, point missing. Head W. 9mm, surviving L. \varnothing 64mm.	3		347
4874	689	Small lump.	20		347
4874	689	Fragment, possibly a simple chisel blade. L. 21mm, W. 9mm.	20		347
4874	689	Small triangular sheet fragment. 13x10mm.	20		347
4944	708	Small wedge-shaped fragment. Possibly a chisel blade, but the stub of the tang appears to be set assymmetrically. L. 28mm, W. 9mm, th. \varnothing 4mm.	20		347
5188	901	Rod with a circular section, broken at a bend at each end. Circular section. L. 27mm, diam. 3mm.	20		347
5214	914	Flat, roughly triangular, fragment. 15x9mm.	20		347
5237	911	Strip, complete as buried. It has rounded ends, and is slightly curved. 46x6x2mm.	20		347
5348	909	Strip fragment. 17x6x2mm.	20		347
5376	916	Needle fragment, with an oval hole. A second, spatulate, fragment is probably the head of the needle, which would thus be a Crummy type 2a. L. 41mm, head W. 10mm.	3		347
5376	916	Bar fragment, with the tip bent at right angles. The bent end may be wider. L. 24mm, W. 3mm.	20		347
5393	920	Needle, head fragment. Crummy type 3. Hole L. 3mm, L. 26mm, diam. 1mm.	3		347
5864		3327 Probable simple chisel head. L. 53mm, head W. 14mm.	10		348
5864		3327 Rectangular sheet fragment. 21x15mm.	20		348
5936		3327 Probable simple chisel. In two pieces, tang incomplete. L. 52mm, blade W. 17mm.	10		345
6008		878 Rod, probably with a square section. There is recent damage, which has bent the bar, and both ends have recent breaks. L. 135mm, section W. \varnothing 8mm.	20		347
6142		Spike, with a rounded head, point missing. Circular section, surface flaked. This is quite a stumpy object, and may be a tool rather than a 'structural' spike. L. 90mm, max. diam. 23mm.	10		345
9043	302	Bar fragment. One end has an old break, the	20		347

Context	SS	SF no		Func	D	X-ray
			other has been formed into a small loop. This somewhat resembles a padlock key, but would be very small for one. L. 40mm, section 7x4mm.			
9301	382		Irregular lump of working waste. \varnothing 20x11x10mm.	15		346
10393	1533		Bar fragment, with fresh breaks. 38x5x3mm.	20		349
10506			Three irregular lumps, probably working waste.	15		345
10506			L-shaped bar, resembling a nail shaft, but with the end flattened and bent at right angles. Possibly working waste. L. 86mm, head W. 19mm.	20		345
13800	1063		Tapering strip fragment. 21x6x2mm.	20		345
14008	710		Two small lumps.	20		346
14022	714		Awl or small drill bit, probably with a square section throughout. The tip is bent. L. 68mm, max. W. 5mm.	10		346
14022	714		Strip fragment. 10x7x2mm.	20		346
14089	729		Three small bar fragments, possibly pieces of the same object, but not now joining. The longest tapers to a blunt tip. 17x3x1mm; 13x3x1mm; 10x2x2mm.	20		346
14226			Irregular oval sheet with a circular perforation. One edge is bent. This is possibly a crude washer, though it is uncertain whether all the edge is original, and it could be the terminal from a strip. 30x25mm, hole diam. 11mm.	20		345
14226			Plate fragment with one straight edge. 22x11mm.	20		345
14226			Strip fragment, bent across the middle. 33x10x2mm.	20		345
14590	772		Strip fragment. 29x7mm.	20		346
14784	786		Strip fragment. 28x7x4mm.	20		346
14784	786		Plate fragment, roughly triangular. \varnothing 28x21mm.	20		346
15056			An amorphous lump, mostly , if not entirely, corrosion products. Possibly working waste.	20		345
15386	480		Six small plate fragments, the largest \varnothing 14x14x2mm.	20		346
15386	480		A small ovoid lump.	20		346
15869	520		Sheet fragment, possibly a decorative terminal from a strip 5mm wide, but probably incomplete. L. 14mm.	20		346
20011	805		\varnothing 50% of a ring, section unknown. Cracked. External diam. 24mm, internal diam. 19mm.	20		346
20031	806		Sheet fragment with mineralised wood on the surface, possibly associated with the object. \varnothing 18x10mm.	20		346
20031	806		Two strip fragments. 27x7mm and 18x5mm.	20		346
20289	2505		Strip fragment, width slightly variable. 44x3x1mm.	20		346

Box XX

6000	SF458	Frying pan, almost circular, originally with a folding handle. It is almost complete bar the handle, but somewhat distorted, the metal brittle and cracked, and with part detached and fragmented. Only the largest of the detached fragments has been included in the illustration. The pan is covered in concreted gravel. There may have been a lip, but this would have been on the part of the rim which is missing. The surviving part of the handle has the stubs of the flanges which	4	59	1183 1201 1202 1205
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would have held the folding part, and a short, narrower projection at the end. Pan W. 200mm, L. 235mm, ht. 23mm. Handle L. 48mm, W. 26mm. Cleaning layer, not phased

The type is discussed by Manning (1985, 104), who notes that most are later Roman. Although rarely found, they were probably not very rare objects. Fragments from a pan would be difficult to identify, and the only reason that this one survived relatively intact was that it had been held together by the concreted gravel.

Box XXI

4140	SF1936	Knife blade with square-sectioned tang. It has a curved blade edge with the tip missing. L. 104mm, L. of tang 49mm, max. W. of blade 16mm. Pit 4139, Period VI	10	60	357
4150	SF4677	Perforated strip with angled ends. Appears complete but twisted. The punched, square perforations are nearer one end. L. 102mm, W. 30mm. Hole W. 7mm.	20		359
4533	SF1984	Bar, slightly curved, with a square section. One end has a wedge point, the other is rounded and possibly original. L. 49mm, W. 5.5mm.	20		357
4537	SF1979	Blade point, damaged. The break is very straight and sharp, and this was possibly cut in antiquity. Parallel sided, with an angled tip as Manning type 1c or 2. L. 69mm, W. 22mm.	10		357
4539	SF1941	Knife. A very small, thin, leaf-shaped blade, with a rectangular sectioned tang, set centrally. The tang was broken in antiquity. L. 59mm, max. W. 14mm. Pit 4698, Period II	10	118	357
4560	SF1980	Double-spiked loop, with ends turned up. The tip of one arm is missing. Possibly used as a hook. It was made from a strip which is thicker on the loop. L. 84mm, W. of loop 29mm, original L. (straight) c 108mm.	11		359
4579	SF1985	Small lump, very mineralised. Possibly a nail head.	20		357
4604	SF1988	Edge binding formed from two separate pieces of sheet. The first was a narrow strip formed into a U-shaped binding, with a slightly curved edge. It is unclear whether the ends are complete. A second, broader strip, which appears complete, was folded over this. The inner edge has two lugs with rivets through them. There is mineralised wood on both faces, at least some of which may be part of the original object. L. 63mm, W. of edge binding 8mm, W. of lugs 20mm. Cleaning layer, not phased	11	116	359 445-6 1310
4662	SF1930	Latch lifter. The handle is a rod with the loop at right angles, and the end of the loop is scrolled. L. 192mm. Longer in drawing – check object Layer, Period II	111	77	360 445
4684	SF1932	Ring. External diam. 46mm, internal diam. 36mm.	20		357
4689	SF1954	A small, almost semi-circular blade, with the end of the tang curled over. It appears complete, and may be a specialised tool. L. 86mm, max. W. 25mm. Layer, Period IV-V	10	88	357
4689	SF4143	Strip, with a D-shaped section and one rounded end, and one square perforation. Probably strapping, or part of a hinge. It is bent, possibly due to forcible removal from its setting. L. 99mm, W. 38mm, hole W. 8mm. Layer, Period IV-V	11		359
4689	SF4144	Strip with looped end, bent, and broken in antiquity. L. 58mm, W. 20mm. Layer, Period IV-V	20		357
4689	SF4291	Object resembling a very small stemmed anvil, with the stem broken. The head is roughly rectangular, with some damage. The X-ray shows the edge of the 'head' as irregular and fissured, and this is probably just scrap metal. It could possibly be a vessel foot, but the bottom is quite rounded, making this	20		360

		interpretation unlikely. Head \leq 40x24mm, L. 33mm. Layer, Period IV-V			
4692	SF1957	Strapping with D-shaped section and a flat round, perforated terminal with a spiked projection, reminiscent of the flame shaped terminals of some of the angle brackets from the site. Slightly bent. L. 124mm, W. 8mm, W. of terminal 20mm. Slot 4695, not phased	11	63	357
4692	SF1958	Strip, curved lengthwise, with a low flange along each edge on the convex side, and a loop at one end. Probably a vessel handle. Parallels. L. 96mm, W. 38mm. Slot 4695, not phased	20	79	359 445
4692	SF4141	Stylus, almost complete. Manning type 4, point missing, and with a semi-circular eraser. The bottom of the handle has a band of brass round a reel decorated with oblique impressed lines; above this there is a spiral groove. XRF analysis showed the inlay to be brass. L. 111mm. Slot 4695, not phased	7	178	357 1535
4692	SF4372	Strip, bent into a U-shape, with fresh breaks either end. Section 8x3mm, L. 62mm, L. (straight) \leq 97mm. Slot 4695, not phased	20		357
4709	SF1939	Socketed knife, with a slight constriction between the socket and the blade. The socket is open, and rather crudely made, with a single perforation. The point of the knife is rounded. There is mineralised wood in the socket, but too little survives for identification. L. 124mm, blade max. W. 21.5mm, socket max. W. 23mm. Pit 14127, not phased	10	115	360 1310
4717	SF1943	Small fragment of sheet with fresh breaks. 14x8mm.	20		357
4757	SF1956	Sub-triangular block, possibly the point of a plough share. The two original edges come to a rounded point. In fairly good condition, possibly post-Roman. L. 69mm, max. W. 50mm, max. Th. 16mm. Cleaning layer.	20		360
4840	SF4148	Needle. The details of the eye are unclear, but it is probably fairly long, with little swelling of the head. L. 84mm, diam. 1.5mm.	3		357
4842	SF4390	Small diamond shaped bar, apparently complete, and in good condition. Variable thickness. Metal working waste? L. 35mm, W. 11mm, max. Th. 6mm.	20		357
4842	SF4391	U-shaped bar, variable circular section, in good condition. Possibly a broken ring. L. 42mm, W. 44mm, diam. 6-8mm.	20		357
4842	SF4392	A small figure-of-eight chain link, incomplete, with recent breaks. L. 34mm, max. W. 14mm.	20		358
4842	SF4393	Staple. Flat topped, made from a strip. One arm is incomplete, but may have been shorter than the other one originally. Section 10x5mm, W. 32mm, arm L. 42mm and 27mm.	11		358
4874	SF4397	Two sheet fragments, one broken across a perforation. Probably part of the same object, but not now joining. 40x34mm, perforation diam. 8mm; \leq 25x20mm. Pit 4873, Period V	20		357
4874	SF4398	Probably an incomplete hipposandal wing with a looped end, as 11139 SF5808, although this example is perhaps rather small. It is unclear which edges are broken. There is a small triangular hole in the middle, which suggests that it might not be a hipposandal wing. L. 71mm, max. W. 25mm. Pit 4873, Period V	8	114	357
5612	SF3854	Strip fragment with an irregular edge, probably working waste. 27x16mm.	20		357
5662	SF4374	Stylus, Manning type 4a. It has a relatively thick stem with a circular section, becoming squarer towards the elongated, flared eraser, the end of which is missing. Above the broken point there is a low moulding flanked by a groove. The moulding may have been formed by wrapping a small strip of iron round the stem. Cf Manning N28 and N29. The former was found in the Thames in association with 1st century coins. L. 109mm, max. surviving W. of eraser 14mm. Cleaning layer, not phased	7	x	358

5761	SF3239	Rod, probably with a square section, formed into a roughly oval loop with the ends crossed. One end has a fresh break, the other was probably broken in antiquity. There is a nail corroded on. L. 77mm, W. 35mm, section W. 8mm.	20		359
5798	SF3315 a	Probable punch. A variable sectioned spike, with a square, unburred head. The section becomes more rounded towards the middle. The point is slightly skewed. The very tip may have broken off in antiquity. L 162mm, max. W. 14mm. Hearth construction 5692, Period IIIB	10	x	361 362
5798	SF3315 b	Small fragment, probably entirely corrosion products.	20		361 362
5805	SF3329	Strip fragment in good condition. L. 34mm, W. 34mm.	20		357
5805	SF3330	Metal-working die? A rectangular block with a flat 'head' protruding on two sides only. The other end has a stepped square projection in the middle. The higher area is irregular, but may have originally been square. 'Top' 28x22mm, section 18x21mm, L. 33mm. Pit fill, Period V-VI	10	x	362 445
5805	SF3331	Roughly square plate. 29x27mm, Th. \leq 13mm.	20		358
5841	SF3321	S-hook, one end broken, made from a strip, section \leq 8x5mm. This was possibly originally a W-shaped hook. 45x35mm. Pit 5805, Period V-VI	11		358
5841	SF3325	Strip fragment, in good condition, broken in antiquity. L. 18mm, W. 18mm. Pit 5805, Period V-VI	20		357
5841	SF3326	Sheet fragment, in good condition. Fresh breaks on all edges. \leq 24x15mm. Pit 5805, Period V-VI	20		357
5841	SF4375	Strap terminal, perforated. One end is slightly rounded, the other broken in antiquity. 59x19mm, hole diam. 10mm. Pit 5805, Period V-VI	20		361 362
5841	SF4376	Strip, slightly tapering. The wider end is squared, the other end rounded, and it may be complete. It has a small triangular piece of sheet corroded onto the surface towards the broader end. Possibly scrap metal. L. 72mm, W. 12-15mm, Th. 4mm. Pit 5805, Period V-VI	20		361 362
5841	SF7291	Six fragments of a strip, probably all the same object, but with modern damage. Variable rectangular section, 24x6mm to 18x2mm, with at least one circular perforation toward the narrower end. Original L. >210mm. Hole diam. 6mm. Pit 5805, Period V-VI	20		361 446
5845	SF3544	Two sheet fragments, covered in pebbly concretion. Very mineralised, original shape uncertain, but with at least one straight edge, and a possible perforation. \leq 46x30mm and \leq 26x15mm.	20		360 445
5845	SF3545	a) Working waste, covered in pebbly concretion.	15		361 445
5845	SF3545	b) Small sheet fragment covered in pebbly concretion. Original shape uncertain.	20		361 445
5845	SF3548	Two joining concreted lumps, probably a nail, very heavily corroded.	20		358
5851	SF3549	Strip fragment, with one square perforation. One end has a fresh break. 28x27mm. Hole W. 4mm.	20		358
5851	SF3550	Small lump, very mineralised.	20		357 445
5864	SF3348	Probable curved blade fragment, possibly part of a small pruning hook. L. 50mm, max. W. 18mm.	10		358
5864	SF3355	Padlock key. Strip handle, tapering slightly to a rolled loop. The bit is incomplete. L. 162mm, section \leq 18x4mm.	21		362 485 445 1078
5864	SF3356	Bar fragment, slightly tapering, with a D-shaped section. Both ends were broken in antiquity. There was a small fragment of	20		359

		copper alloy corroded on. This was probably part of SF3357. L. 141mm, W. 14mm, Th. 4.5mm.			
5864	SF3357	Bar, with a D-shaped section and one squared end. The other end is flattened into a thin plate in the same plane, the edges of which have some old and some new breaks, and whose original shape is uncertain. It probably splayed out symmetrically at an angle of $\leq 45^\circ$. This might be part of a spatulate blade such as Manning S134, though any identification must be very tentative. SF3356 is probably part of the same object, giving a handle length of at least 275mm. Bar L. 134mm, section 13x4mm. Blade surviving L. 52mm, max. surviving W. 52mm.	20		359
5864	SF4379	Strip fragment, both ends broken in antiquity. 50x32mm.	20		358
5893	SF3556	Barb spring padlock key. It has a strip handle with an end loop. Most of the bit is missing. L. 132mm, section 9x5mm.	111		358 446
5914	SF4381	Sheet fragment in concretion. The metal is very mineralised and the shape is not discernible on the X-ray. $\leq 60 \times 42$ mm.	20		361 446 485 1078
5939	SF3560	Strip, both ends broken in antiquity. One edge has a small notch out of it. 93x22mm. Pit 5940, Period IV	20		358
5939	SF3567	Blade. The section is thin, with a curved back, and possibly the original point. The cutting edge is slightly scalloped. The butt end is complete as buried, and appears rounded, and possibly complete. This may be an unfinished blade from folding knife, lacking its pivot hole. L. 74mm, max. W. 24mm. Pit 5940, Period IV	10	120	359
5951	SF3364	Ox goad, Rees type 1 (coiled), probably incomplete, with just over one coil surviving, and the point broken. L. 30mm, external diam. 20mm.	12		358
6316	SF2383	Tool, probably a drift, used by smiths for enlarging holes. The section is probably circular throughout, with a pointed end, swollen shank and a bulbous head. The head does not show any sign of having been hit, so this was possibly unused, or very little used. Manning (1985, 10) notes that Roman drifts, as opposed to punches (which do not have swollen shafts) are very rare. L. 109mm, head diam. 19mm, max. diam. of shank 16mm. Layer, Period IV	10	121	362 1310
6352	SF2364	a) Strip fragment in two pieces. One end has a fresh break, the other is cut obliquely. 77x12mm.	20		359
6352	SF2364	b) Sheet fragment. 26x27mm.	20		359
6367	SF2379	Object resembling a chisel with a sub-circular blade. The surface is in good condition. It has a rather thick splayed 'blade', slightly concave, with a bevelled edge and a short shank with a rectangular section. The end has transverse marks, probably hammer marks. This may be an unfinished object. L. 96mm, max. W. 46mm. Well 6280, Period III-IV	20	61	361 362
6416	SF3382	Lump of working waste.	15		358
6578	SF4394	Strip fragment, slightly tapering, with fresh breaks at both ends. The narrower end is broken across a right-angled bend. Probably strapping or an angle bracket. L. 64mm, W. 21-24mm.	20		358
7448	SF2418	Rod, probably with a circular section. One end has a fresh break, the other is complete, rounded and slightly flattened. L. 127mm, diam. 6mm.	20		358
7453	SF3649	Bar, with the end looped over; probably a padlock key handle (cf SF3556). L. 88mm, W. 8-11mm, Th. 4mm.	111		358 446

Box XXII

4458	SF5275	Sheet fragment, original shape uncertain, now roughly	20		368
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		rectangular. There are three perforations set quite close together, in a line across the middle, and the sheet is probably broken across a fourth perforation in the same line. There is at least one other hole, in the corner of the sheet. The closeness of the holes suggests that this was decorative studding, so this may be part of a box, furniture or door fitting. <u>c</u> 70x50mm, hole diam. 4mm.			447
4480	SF5295	Strip fragment, both ends broken in antiquity. 46x10mm.	20		368
4540	SF5363	Rectangular block, possibly complete. 28x22x10mm.	20		368 447
4540	SF5364	Rectangular sheet, possibly complete as buried. The three edges which have been cleaned are slightly bevelled, probably as a result of having been cut. 33x22mm.	20		368 1248
4598	SF5294	Plate fragment, roughly triangular. Possibly part of a blade, but it is uncertain whether the edges are original. X-rays vague. L. 31mm, max. W. 18mm.	20		368 447
4688	SF5297	Strip fragment, one end broken recently. 30x14mm.	20		368
4785	SF5366	Strip, folded in half across a small hole. It resembles a buckle plate, but there is no obvious means of attachment to a strap. 19x17mm, hole diam. 2mm.	20		368 447
4794	SF4177	Bar fragment, possibly working waste. One end has been cut obliquely. L. 55mm, section 15x9mm.	20		371
4825	SF4149	Stylus, Manning type 4. The point is unusually long, although cracked and bent during excavation. The bottom of the handle has six circumferential grooves, and the well-formed flared eraser has a slight step at the junction with the handle. L. (straight) 141mm. Pit 14098, Period IV-V	7	99	368 447 1520
4862	SF4161	Bar, probably with a square section. Both ends are broken, one end recently. The other end curves, and there may originally have been a fairly large loop at this end. L. 109mm, section 8x8mm.	20		371 447
4870	SF4157	Knife tang of constant rectangular section. Most of the blade was broken off in antiquity. L. 67mm, section 8x4mm.	10		368
4881	SF4163/ 4164	Socketed folding knife in two pieces, the socket (SF4164) and the blade (SF4163). There is recent damage to the socket, and the knife was obviously in one piece until excavation. The socket was made from a rectangular sheet with two semi-circular lugs at one end. The sheet was folded into a tube, with the edges almost butted, and the lugs were flattened to hold the blade, which was riveted on. Only one lug survives, but the shape of the second one is visible as a scar in the corrosion on the blade. There is a rivet through the base of the socket, to hold the missing handle. The outside of the socket has mineralised wood adhering, but this is probably not directly associated with the object. L. 136mm, blade L. 87mm, max blade W. 28mm, socket L. 60mm. Cleaning layer, not phased. The form of the handle is similar to those in copper alloy commonly described as 'folding razor handles'. Any parallels in iron? Possible one from Richborough IV, no 145 Cleaning layer, not phased	10	129	368 447 1520
4881	SF4164	Part of SF4163.			
4899	SF4180	Ring, circular section. External diam. 45mm, internal diam. 36mm.	20		370
4925	SF4181	Plate fragment, probably a right-angled corner, with a square perforation with part of a nail surviving. 60x56mm, hole W. 8mm.	20		370
4974	SF5369	Strip fragment, possibly with a small perforation at the end. It has one straight and one irregular edge, possibly with a deliberate notch at one end. Very mineralised. L. 52mm, max. W. 8mm.	20		368 447

4990	SF4188	Double-spiked loop, one point missing. Made from a strip, section 9x4mm, with the loop slightly thicker. L. 71mm, loop external diam. 27mm.	11		370 371
5307	SF5361	Smith's punch or chisel, as Manning A24. It has a rectangular section of constant width and variable thickness. The head is bent to one side, and split, possibly due to damage in antiquity, which might have lead to the discard of the tool. L. 74mm, W. 11mm, max. Th. 8mm. Cleaning layer, Period V-VI	10	53	370 371
5543	SF5263	Loop-hinge fragment, slightly curved, probably from a box hinge. It is very similar to a hinge found <i>in situ</i> on a box from Colchester, which has a similar degree of curve at the loop end (Crummy 1983, 85, no. 2199). L. 50mm, W. 16mm, loop external diam. 16mm.	11		368
5543	SF5296	Strip of variable thickness, with rounded ends, apparently complete. One end is bent over. A copper alloy tack is corroded to the inside of the curve. 42x18mm (straight)	20		368 1248
5543	SF5296	Copper alloy tack, corroded to an iron strip. Length complete, half of the flat, round head missing. L. 11mm, head diam. 3.5mm.	11		
5601	SF5370	Spiral ferrule with three coils, formed from a strip 7mm wide. L. 35mm, external diam. 21mm.	11		372
5607	SF4693	Bar, with a looped end, other end broken; bent. Possibly the handle from a key or latch lifter. L. 78mm, loop external diam. 12mm.	20		370
5629	SF5108	Linchpin. Manning type 2b. The head is rather more pointed than usual, and there is no step on the back of the stem. It is covered in concreted pebbles. L. 151mm, head W. 35mm, L. 31mm, shaft section 19x14mm. Cleaning layer, not phased	8	112	1248
5671	SF3188	Plate, in the shape of a sector of a circle. Complete as buried. 55x22mm.	20		368 1248
5809	SF3525	Open socket, most of the blade, which was probably single-sided, missing. L. 64mm, socket W. 18mm, blade W. 18mm.	10		370 447
6515	SF3387	Ring, slightly D-shaped. External diam. 64mm, internal diam. 54mm. Cleaning layer, not phased	20		372
6515	SF3389	Punch, covered in hard concretion. It has a rounded, pointed tip. The head may be broken; there is no burring evident on the X-ray. The section is uncertain, but may be polygonal at the head end. L. 68mm, max W. 12mm. Cleaning layer, not phased	10		371
6532	SF5261	Sheet fragment, c 25x20mm.	20		368 447
6552	SF3398	Reaping hook tang. The form is as Manning 1985, F36, with a small flanged socket and a long external tang, in this case with a distinct step. The flanges are damaged and incomplete. L. 127mm, W. of socket 29mm. Cleaning layer, not phased	12	122	372 486 1248
6609	SF3412	Bar fragment, broken at both ends, section uncertain. Possibly a tool such as a punch. L. 69mm, section c 7x7mm.	20		371
7000	SF2407	Strip fragment. 80x26mm.	20		370
7447	SF5300	L-shaped bar, apparently complete as buried, with no perforations. It tapers slightly to the end of the longer arm. There are odd-looking cracks across it, perpendicular to the edge. Max. section 20x9mm, arm L. 90mm and 37mm.	20		372
7494	SF5367	Small irregular lump with fissured edges, possibly working waste. c 15x12x10mm.	20		368
7494	SF5368	Sheet fragment, with one original straight edge. 24x23mm.	20		368 447 487
7617	SF5273	Bar, tapering to a point. The broader end is rather rounded. This is probably not a simple chisel. L. 38mm, max. section 13x8mm.	20		368 447
9264	SF1563	Knife blade fragments, tang or socket missing. It has a straight	10		370

		back, with a regular taper to the point. L. 104mm, max. W. 20mm.			
9305	SF3254	Bar fragment with a looped terminal. Broken recently. L. 39mm, W. of loop 18mm.	20		370 447
9344	SF3288	Bar fragment, one end broken in antiquity and slightly bent. The other end is bevelled. Probably a damaged chisel blade. L. 48mm, W. 11mm, Th. 7mm.	10		370 371 447
9454	SF3290	Block with a sub-rectangular section. The top is burred, and the base has a shallow rectangular groove c 1.5mm deep, extending from one edge to halfway across the bottom. The object appears complete, and sits squarely on the base. Possibly a small anvil. Ht. 34.5mm, section 25x28.5mm. Layer, not phased	10	100	372
9469	SF4371	A bar-like object with a variable section, and an irregular outline. Both ends were probably broken in antiquity. Probably working waste. L. 58mm, max. W. 14mm, max. Th. 14mm.	20		371 447 486-7
9497	SF4386	Staple, flat-topped. Made from a strip section 9x4mm. The arms are angled towards each other. L. of top 37mm, L. of arms 30mm.	11		371 447
9510	SF3298	Probably a small punch, though this could be a wedge. The head has a suggestion of burring, although the metal is badly fissured, and this end may not be complete. The other end has a blunt point. Max. section 18x15mm, L. 52mm.	10		371 447 1079
9510	SF3300	Strip terminal? The metal has flaked. 14x12mm.	20		487

Box XXIII

12197 SF6153 and SF6154 transferred to Box XLV (Crem. 12203)

4800	SF5857	Fragment, with an irregular triangular section. The back is curved. Probably working waste. L. 50mm, section 14x15mm.	15		373
4800	SF5858	Bar fragment, broken at both ends. 47x16x6mm.	20		373
4880	SF5880	Curved strip, with a perforated rounded terminal. Other end broken in antiquity. 67x22x4mm.	20		374
4924	SF5881	Strip, complete as buried. 93x7mm.	20		373
4925	SF6185	Small fragment, probably entirely corrosion products	20		373 1079
4925	SF6186	Rectangular fragment, very heavily mineralised. 30x28mm.	20		373
4925	SF6187	Bar fragment, probably tapering slightly to a rounded end. The other end has a fresh break. L. 54mm, max. section 15x7mm.	20		376 449
4925	SF6188	Strip fragment, probably cut in antiquity. One end was probably a perforated circular terminal, the side of which have been folded flat, almost meeting in the middle. There was possibly a slight constriction between the strip and the terminal. L. 78mm, strip W. 19mm; terminal, original W. c 28mm, hole diam. c 5mm.	20		373
4925	SF6189	Strip fragment in good condition, irregular outline and variable thickness, fissured. Working waste? L. 87mm, max. W. 23mm.	20		373
4925	SF6198	Rod, circular section, both ends broken. 70mm of one end is twisted. L. 129mm, diam. 6mm.	20		373
5000	SF6155	Linchpin, Manning type 2b. Complete as buried. it has quite a small head, almost oval, with a relatively large loop. There is possibly a slight step on the back of the stem. L. 140mm, head 44x33mm, loop ht. 27mm, section of stem 14x14mm.	8		367
5597	SF5140	Unidentified object. It consists of a flat strip of constant width, and a thin D-shaped section, with slight damage to the end but probably almost complete as buried. The other end widens into a rectangular sheet, shallowly curved across the width. The length is probably complete as buried, though this part is now in several pieces (some missing) due to recent damage. This is unlikely to be a modern intrusion, as it has a Roman pot rim	20	101	493 1309 4532

		corroded on. L. 190mm, strip 92x28x4mm, 'blade' W. 70mm. Cleaning layer, not phased			
5598	SF5879	Loop-headed spike, curved. It is uncertain whether the curve is original. L. 81mm, external diam. of loop 14mm. Cleaning layer, not phased	11	54	373
5601	SF5143	Rectangular plate, distorted in antiquity. One corner has been bent over, and the opposite edge turned up slightly. Probably scrap metal. 50x41x5mm.	20		373
5601	SF5863	Probably a nail shaft, bent into an irregular loop. Original L. \leq 92mm, loop 28x22mm.	20		376
5601	SF5866	Broken bar, with a spike at right angles at one end. The spike is flattened in the plane of the bar. This is possibly a flat topped staple, although the bar is much thicker than normal. Bar section 24x12mm, L. 33mm, spike L. 48mm.	20		373 449
5602	SF5842	Very heavily corroded object, possibly an irregular plate. \leq 34x22mm.	20		373
5603	SF5849	A small, flat, pear-shaped plate, apparently complete. Working waste? L. 20mm, max. W. 14mm.	20		373
5603	SF5850	Strip. It has been tapered by folding one edge over at an angle, and hammering it flat. The other edge is slightly turned up, and the narrow end possibly incomplete. The broader end is straight, without a sharpened edge. Possibly scrap metal.	20		373
5603	SF5851	Bar fragment, slightly tapering. L. 66mm, W. 11-17mm, Th. 6mm.	20		373 449
5610	SF5844	Small triangular fragment, original shape uncertain. Probably scrap. L. 24mm, W. 15mm.	20		373
5610	SF5845	Plate fragment with irregular edges. 39x20mm.	20		373
5610	SF5846	Plate fragment, rectangular, slightly twisted, thickness probably variable. 38x27mm.	20		373
5610	SF5847	Curved rod, broken at both ends. Possibly a broken figure-of-eight chain link. Circular section, diam. 5mm., L. 57mm.	20		373
5610	SF5853	Bar, slightly tapering. Possibly a wedge. L. 53mm, max. section 16x14mm.	20		377 449
5610	SF5854	Loop-headed bar, point probably missing. The taper suggests that this is a spike rather than the handle of e.g. a latch-lifter or key. L. 84mm, external diam. of loop 20mm, internal diam. 10mm.	11		376
5610	SF5856	T-staple with a small lump of copper alloy in the corrosion. The shaft is incomplete, and has a right-angled bend. L. (straight) 75mm, W. across head 39mm.	11		374
5907	SF4755	Needle, point present but broken across the eye. A small, fine needle. L. 31mm.	3		448
10330	SF4633	Plate fragment of variable thickness, with very irregular but original edges. Scrap metal? \leq 46x27mm, max. th. 6,5mm.	15		374
10642	SF6196	Irregular lump, probably working waste. \leq 32x15mm, thickness uncertain.	15		374
10858	SF5765	Fragment, irregular. Probably working waste. \leq 22x18mm.	15		374 448
10877	SF5769/ 5878	Angle bracket from a box, in two pieces, with flame-shaped terminals, one of which has a nail through it. The nail is complete, with a bent tip and a domed head. D-shaped section. Arm L. 89mm, W. 8mm. Terminal W. 16mm. Pit 10910, Period V	11	27	374
10877	SF5878	Flame-shaped, perforated terminal from a box binding strip.	11		374
		Joins SF5769			
10898	SF5779	Strip fragment in good condition, with a D-shaped section. One end was broken in antiquity. L. 46mm, W. 37mm, Th. 7mm.	20		374
10905	SF5785	Stylus, Manning type 3, somewhat distorted. The point is missing, and the eraser damaged. The eraser is thin and splayed, and is without shoulders. (The illustration is a	7	55	374

		reconstruction of its original shape) L. 97mm. Cleaning layer, not phased			
11000	SF5838	Plate fragment, with one original straight edge. 44x30mm.	20		374
12000	SF6158	Plate fragment, possibly with a right angled corner, other edges broken. \leq 65x50x4mm.	20		377 449
12000	SF6160	Sheet fragment, a shallow U-shape in plan, cracked. It is uncertain whether any of the edges are original. \leq 26x10mm.	20		374
12000	SF6161	Strip fragment, 34x9mm.	20		373
12000	SF6162	Small rectangular block. 23x20x6mm.	20		373
12000	SF6163	Bar, with a tapering, square section. Both ends are incomplete, and there is recent damage in the middle. L. 254mm, section 7x7mm – 3x3mm.	20		1340 4534
12000	SF6164	Stylus, Manning type 1. Plain, with an undifferentiated point and a small wedge-shaped eraser. L. 133mm. Machining layer, not phased	7	30	374
12000	SF6166	Strip, probably originally flat, but now distorted. Both ends broken in antiquity. It has three complete, rather large perforations, closely set down the middle, and is broken across a fourth one. One edge may be thickened. Possibly part of modern farm machinery. L. 90mm, W. 21mm, hole diam. 8mm.	20		374
12234	SF4824	Blade fragment; parallel sided, with the back thickened on one face only. One end has a fresh break. Probably part of a scythe blade. L. 71mm, W. 27mm.	12		376
12237	SF6181	Double spiked loop, made from a rectangular sectioned strip. L. 67mm, W. of loop 27mm, section 12x6mm.	11		377 449
13348	SF5860	Bar fragment. One end has a fresh break. 38x11x5mm.	20		374
13348	SF5861	L-shaped bar, possibly a hinge pivot. The sections are uncertain, although one arm appears to have a constant section, either square or circular, and the other tapers. Both arms are probably broken. Arm L. 47mm and 34mm, max. W. 15mm.	11		377 449
13394	SF6151	Triangular fragment of constant thickness. L. 58mm, max. W. 20mm, Th. 9mm.	20		374 449
13419	SF6180	Tear-drop shaped plate fragment, possibly the terminal of a bar. The X-ray is faint. L. 33mm, max. W. 14mm.	20		375
13445	SF5131	Hipposandal wing, broken at the junction with the sole. The form is rather square, and it lacks the elongated point which appears more typical of hipposandal wings. 58x40mm.	8		376
13445	SF5840	Sheet fragment, with recent damage, original shape uncertain. It has a perforated, squared corner. 53x62mm, hole diam. 3mm.	20		375 448
13445	SF5841	Blade-like object, with a centrally set 'tang', the end of which has a fresh break. The 'blade' has rounded shoulders and is parallel-sided, with a straight end which is very thin, damaged, and possibly incomplete. The sides do not appear to be edged. The 'tang' has a D-shaped section, more typical of box fittings than blades, and it is likely that this is some sort of fitting rather than a blade. L. 56mm, 'tang' section 9x5mm, 'blade' W. 30mm, L. 35mm.	20		376 449
13445	SF5859	Collar, made from a strip, W. 19mm. Diam. 34mm.	11		376 449
13483	SF5872	Bar fragment, complete as buried. 26x14x5mm.	20		375
13551	SF4748	Thin rod with bulbous oval terminal, probably working waste. L. 50mm..	15		375
13576	SF6098	Hipposandal wing, broken at the junction with the sole. It has a rather square shape and elongated point, as Manning H2. L. 84mm, W. 38mm.	8		376
13593	SF6088	Oval loop with a circular section, incomplete. One end is broken, the other possibly complete. The X-ray shows a possible lapped joint, but this may be an artefact of corrosion. Possibly a chain link. \leq 83x65mm.	20		376
13642	SF6190	Bar with a variable section, with a blunt point at one end, other	20		377

		end broken. The pointed end has a circular section, and is straight for 30mm, then shallowly kinked for 60mm. The other end has a rectangular section. L. 140mm, section diam. 8-14mm, changing to 10x7mm.			449 1079
14093	SF5541	Drop-handle, made from a square sectioned bar with the ends looped over. There is a double-spiked loop through each end, made from rectangular sectioned strips, with the points turned out. Handle W. 119mm, drop 70mm; double spiked loops L. 42mm, W. across loop 17mm. Pit 14099, Period IV-V	4	52	375
14416	SF5554	Strip fragment, with fishtail-shaped terminal. The other end has a fresh break. L. 27mm, W. 12mm, max. W. 25mm.	20		375 448
14479	SF6179	Probable vessel handle mount. An incomplete plate, probably originally oval, with one nail <i>in situ</i> . One long side has a slightly curved strip at right angles, with a perforated terminal, now damaged. Plate 57x31mm, strip 44x18mm, hole diam. 10mm. Cleaning layer, not phased	4	31	375
15006	SF5873	Tapering strip fragment, with a fresh break at the wider end. L. 38mm, W. 4-11mm.	20		375
15087	SF5892	Bar fragment, tapering, with a fresh break at the narrower end. L. 37mm, W. 9-12mm, Th. 6mm.	20		375
15112	SF5911	Vessel handle mount. Rounded terminal with a large perforation. It is on the edge of, and a slight angle to, a wider plate of unknown shape, broken off at the angle. Layer, Period V	4	x	375 488
15112	SF5912	Box angle bracket. A strip fragment with perforated flame-shaped terminal, a larger version of 10877 SF5769. Strip 54x11mm, terminal 35x21mm, square hole, W. 4mm. Layer, Period V	11		375
15152	SF6197	Part of a shallow oval spoon bowl. The object is very mineralised, and the X-ray very faint, but the complete width appears to be present. W. c 52mm, surviving L. 70mm.	4		377

Box XXIV

10523	SF5201	Two joining fragments of a parallel sided blade. L. 73mm, W. 32mm.	10		415
10526	SF5199	Strip fragment, probably from a rounded terminal, with an old break. 41x18mm.	20		414
10547	SF5213	Tapering bar, with a blunt point at one end, the other end broken. The section is probably square. Possibly a punch. L. 95mm, W. 12mm.	20		415 489 1079
10569	SF5231	Thick strip fragment with a central oval perforation. Probably broken at one end. 94x34x6mm, hole 12x8mm.	20		416
11000	SF2537	Tanged knife, in good condition. It has a parallel sided blade with a straight cutting edge, the back dipping to the point. The back is thickened on one face only. This is probably an example of the fairly rare Manning type 17. L. 145mm, L. of tang 52mm, W. of blade 22mm. Machining layer	10	x	415
11000	SF2538	Strapping, perforated at each end. One end is squared, and probably complete, the other is more irregular. Possibly post-Roman. L. 120mm, W. 21mm. Hole diam. 8mm.	20		414
11000	SF2564	Perforated strip fragment, probably distorted. It has one well defined circular perforation in the middle, and is probably broken across a rectangular perforation. 51x36mm, hole diam. 7mm.	20		414
11000	SF2584	Punch, with a burred head, tip missing. The section is rectangular, and the faces are slightly hollowed. L. 75mm, max. section 36x18mm. Machining layer	10	64	416
11000	SF2592	Linch pin, Manning type 2b. Complete. L. 178mm, head 45x36mm.	8		417 489

11000	SF2602	Strip fragment, with wavy edges. All breaks are ancient. 41x17mm.	20		1080 414
11000	SF2623	Hipposandal front hook, with recent damage to the loop. It is quite a broad strip, tapering gradually to the loop. L. 105mm, max. section 33x7mm.	8		416
11000	SF2639	Plate strip fragment, possibly broken across a perforation. Old breaks. W. 34mm, L. 38mm, Th. 7mm.	20		415
11000	SF2641	Plate fragment, slightly curved. It has one original right angled corner, an the other edges have fresh breaks. 42x31x4mm.	20		415
11000	SF2642	Strip fragment. One edge is rather wavy. Both ends broken in antiquity. 86x25mm.	20		414
11000	SF2644	Ring, circular section, rather robust. External diam. 45mm, internal diam. 37mm.	20		415
11000	SF2645	Plate fragment. \varnothing 24x22x11mm.	20		414
11000	SF2655	Bar, slightly curved lengthwise. One end has a fresh break. 99x20x14mm.	20		417
11000	SF2658	Plate fragment with irregular edges, none definitely original. \varnothing 95x54mm.	20		416
11000	SF2659	Rod, bent at one end, and broken at the other. L. 179mm, diam. 4mm.	20		415
11000	SF2661	Horseshoe fragment with D-shaped section. Heel thickened, unfullered, three holes, not countersunk.	8		416
11000	SF2662	Strip fragment with a rounded terminal with a square perforation containing the remains of a nail. The other end was broken in antiquity. 92x20mm, hole W. 4mm.	20		414
11000	SF2664	Strip fragment. 32x11mm.	20		414
11000	SF2665	Small curved bar fragment, probably with a square section. L. 25mm, W 7mm.	20		414
11000	SF2666	Strip fragment. 35x25mm.	20		414
11000	SF2674	Bar fragment, broken at both ends. One end may have been forcibly wrenched off. L. 88mm, W. 10mm, Th. \varnothing 10mm.	20		416
11000	SF2677	Plate strip fragment, both ends broken in antiquity. 71x46x8mm.	20		417
11000	SF2678	8 fragments; seven of them are probably just corrosion products. The eighth is an ovoid lump, probably working waste. \varnothing 30x28x15mm.	20		420
11000	SF3006	Double looped hook made from a rectangular sectioned bar, section 13x9mm. This is a heavy duty hook which may have been part of a steelyard, or possibly part of a cauldron assembly. L. 69mm, L (straight) \varnothing 107mm, W. across loop, 38mm. Machining layer	11	x	417
11000	SF3062	Hipposandal front hook; a tapering strip, L. 111mm, max. section 19x7mm.	8		416
11000	SF3207	Two small fragments, possibly just corrosion products; lump with lentoid section, original edges uncertain. \varnothing 35x30x28mm.	20		416 489
11000	SF4280	Ring, circular section. External diam. 44mm, internal diam. 34mm.	20		415
11000	SF4286	Bar, of almost constant width and variable thickness. It has one flat, rounded end, with a perforation, diam. 10mm. The centre of the bar is thicker, and has a circular hole at right angles to the one in the end, diam. 6mm. The other end is flattened, and was broken in antiquity. It appears to be splaying out. Possibly post-Roman? Parallels L. 94mm, max. section 22x24mm. Machining layer	20	78	417 489
11000	SF4297	Double spiked loop with a broad rectangular sectioned head, tapering either side to a thin, square sectioned arm, one of which is broken. This appears to be an unusual form for a Roman loop, and it may be post-medieval. L. 118mm, W. across loop 32mm. Max. section of head 23x6mm.	11		415

11000	SF5274	Strip, curved widthwise, with old breaks. L. 34mm, W. 14mm.	20	414
11000	SF5277	Punch or chisel fragment with a rectangular section. A tapering bar, broken in antiquity at both ends. L. 75mm, max. section 14x10mm.	10	416
11000	SF5301	Strip with a D-shaped section, with a slit in the middle of the strip. Both ends probably broken. 103x32mm, slit 11x2mm.	20	417
11000	SF5313	Ring, with a broken tongue or ring-headed attachment pin. Either a buckle or a ring fitting. External diam. 40mm, internal diam. 29mm. Possibly post-Roman.	20	415
11000	SF5360	Probable mushroom shaped stud head. It has traces of copper alloy on the surface, probably part of another object. Diam. 25mm, ht. 15mm.	11	415 489 1080
12026	SF4066	T-clamp, with a straight cross bar with slightly tapered ends. Possibly complete. L. 80mm, head W. 81mm, section 7x5mm.	11	420 489 1081
12029	SF4065	Tapering strip fragment. L. 40mm, W. 23-33mm.	20	414
12041	SF4395	Strip fragment, perforated, with mineralised wood on one face. 65x22mm, hole diam. c 4mm.	20	414
12044	SF4773	Sheet fragments, joining. Original shape unknown. c 38x38mm.	c 20	414

Group of water-pipe junction collars

A number of fragments of water-pipe junction collar came from contexts 12026, 12029 and 12036. All are fills of ditch terminal 12027 (Late 3rd. cent., Period IV-V). 12029 is a dump of pot in the top of the ditch. There are joins between contexts 12026 and 12036, the breaks of which are fresh, indicating some mixing of the finds from the two contexts, and it seems reasonable to suppose that this group of collars is a single deposit. In addition, 11000 SF4382 must be part of this group (a mistake for 12000? – or perhaps just a find whose label got lost, so it was deemed unstratified). The size is the same, the soil matrix is similar, and the SF number is close to one from 12026.

The fragments are c 26mm wide and have a very low external central flange. Mineralised wood is present on one or both faces. On the inner surface, the butted ends of the pipe show clearly on some pieces. The diameter is difficult to measure accurately in all cases, as most pieces have some distortion from a true circle, but the range is between about 120mm and 140mm internal diameter. Assuming that these are all fragments from the same collars, the minimum number of collars present was calculated (using chord measurements) to be three.

The objects were not recognised as water-pipe collars during excavation, so not all the small finds in the group were plotted (SFs 4067, 4380 and 4388 were unplotted). Of those that were, SFs 4068, 4764, 4765 are very close to each other (there are joins between SF4765 and SF4068), with SF4064 c. 2m distant, and SF4063 3.5m from SF4064. SF4067 and SF4388 (both unplotted) have conjoining fragments, and must belong together.

The position of the collars suggests that the water pipe was *in situ*, and that we have the remains of four, or possibly five, collars. SF4067/4388 possibly came between SF4063 and SF4064, which would give a length for the wooden pipes of c. 1.8-2m.

11000	SF4382	Curved strip fragment with a central rib on outer face. A water pipe collar fragment, which appears to be part of the same group as the collar(s) from 12026, 12029 and 12036. The size is the same, and the soil matrix is similar. The SF number is close to one from 12026.	9	415
12026	SF4063	a) Two joining pieces. b) Two nested pieces, clearly showing the wood on the outer face. c) Two overlapping pieces.	9	418 489 1081
12026	SF4067	Three pieces, two of which join pieces from 12036 SF4388 (fresh breaks).	9	418
12026	SF4380	Two small fragments, and four larger pieces, one of which has a small globule of lead in the corrosion products (one lump of slag was transferred to the slag box). Most of the ends have fresh breaks, but none of these pieces joined.	9	418

12026	SF4765	One fragment. Joins 12036 SF4068 (broken in antiquity).	9	414
12029	SF4064	Two fragments, one of which shows the wood on the inside particularly clearly.	9	414
12036	SF4068	One fragment.	9	417 420
12036	SF4764	One fragment	9	418
12036	SF4388	Three fragments. Two pieces join with pieces from 12026 SF4067 (fresh breaks).	9	418

Box XXV

4000	SF1191	Ferrule? A tapering cylinder, point missing, in good condition. The wider end is probably socketed, and contains mineralised ?wood. possibly with an iron tang in the middle. Possibly post-Roman. L. 79mm, max. diam. 19mm.	20		427
4994	SF5432	Scabbard slide. One end is rolled over, the other is pointed. There is possibly a central perforation, though this may be a result of corrosion. Cf Jackson 1985, 132, no. 5. W. 8mm, L. 115mm. Pit 4989, not phased	13	41	426 1082
4994	SF5442	Ring handle, with double-spiked loop attached. The loop is made from a ?square sectioned bar, points missing. Ring; external diam. 37mm, internal diam. 29mm. Double-spiked loop; L. 54mm, W. across head c 14mm. Pit 4989, not phased	11		427
4994	SF5580	Thin sheet fragment, with one original, slightly thickened straight edge. All other edges were broken in antiquity. A possible blade fragment. 25x19mm. Pit 4989, not phased	20		426 1426
5151	SF5589	Bar, tapering to a rounded terminal. The other end is slightly bent. L. 56mm, W. 9-14mm, Th. 10mm.	20		427 490
5497	SF2270	Strip fragment, both ends broken in antiquity. It is probably broken across the base of a loop, and might be a latch lifter handle. 62x22mm.	20		426
5512	SF4726/ 4728	Tapering square-sectioned bar, two joining fragments (the break is fresh), possibly a nail shaft. Surface flaked, with an old break one end and a fresh break the other. If this is a nail, the complete length must have been 170-180mm. There are two definite nails from the context, neither anywhere near this size. L. 151mm, W. 9mm. According to the plan, the two SFs were found several metres apart , despite the fresh break, so either the plot is wrong, or the object was moved. Are the pieces from the surface of the feature?	20		426
5512	SF4728	Bar fragment. Joins SF4726.	20		426
5607	SF5096	Stylus, Type 1, with a wedge eraser. The stem is slightly bulbous above the undifferentiated point. L. 138mm. Cleaning layer, not phased	7	x?	427
5607	SF5097	L-shaped lift key with two teeth, both incomplete. The stem is broken just above the start of the broader handle (cf 5628 SF5099 for the shape). This is a large key with an unusually long bit, L. 49mm. Stem section c 9x7mm, L. 94mm, original L. perhaps 140-150mm. . Cleaning layer, not phased	111		427
5607	SF5593	Strip fragment, possibly broken across a perforation. Both ends broken in antiquity. 44x30mm. Cleaning layer, not phased	20		426
5607	SF5599	Rectangular sectioned bar with an open looped end. Probably a key or latchlifter handle. 88x9x6mm. Cleaning layer, not phased	20		427
5628	SF5099	L-shaped lift key with three teeth. The rod stem has a broad handle with a closed end loop in the same plane. The form of the handle is very unusual for a lift key, which usually have their loops at right angles, but is very common on lever lock keys in both iron and copper alloy. How unusual, exactly?	111	80	429 490

		None in Manning, Colch, Aldborough, Castleford.	L.		
		161mm. Cleaning layer, not phased			
5628	SF5372	See 5629 SF5100. Cleaning layer, not phased	20	426	1082
5629	SF5100	Joins 5628 SF5372 (fresh break). Strip fragment with one original, slightly bowed edge. The other edge is very irregular, and the full width may not be present. The surviving edge is thickened, possibly by an applied strip c 13mm wide. There are four rivets along this edge, set 16-22mm apart. L. 80mm, surviving W. 21mm, hole diams. 3mm. Cleaning layer, not phased	20	427	490
5745	SF5374	Strip fragment with looped terminal, broken in antiquity. L. 40mm, section 11x5mm.	20	426	
6382	SF5371	Strip fragment with a D-shaped section, possibly stepped, though this may be the result of corrosion. One end has a fresh break. L. 32mm, section 12x7mm.	20	426	1082
6609	SF5591	Six joining sheet fragments with one original straight edge. c 50x40mm.	20	426	1082
6730	SF5582	Sheet fragment, roughly rectangular. c 24x19mm.	20	426	1082
6742	SF5584	Bar fragment. c 33x14x14	20	427	490
6742	SF5585	Sheet fragment. It is unclear which edges are complete and which are old breaks. c 38x35mm.	20	427	
7656	SF2444	Strip, curved slightly widthwise, with a strip 'tang' at one end, in line with one edge. There are no perforations. This is possibly structural ironwork, though it is unclear what it is from. L. 164mm, W. 44mm; tang L. 38mm, section c 21x4mm.	20	428	1083
7685	SF5560	Plate fragments, probably perforated, with one right-angled corner. Probably all the same object. Fresh breaks. At least 80x45mm.	20	428	
7732	SF5606	Hipposandal heel. A large, rather sharply trapezoidal, example, missing one side (fresh break). If symmetrical, the width would be c 86mm. L. 73mm.	8	429	490
9320	SF5583	Strip fragment, bent, both ends broken in antiquity. One end is probably broken across the base of a broader perforated terminal. This is probably a distorted angle bracket with a round or flame-shaped terminal, from a small box. L. 91mm, section 8x3mm.	11	426	490
9698	SF4935	Hipposandal, rear hook incomplete, wings and front hook missing. Probably has a ridge down the middle on the underside. L. 164mm, W. across wings 90mm, W. of heel 62mm.	8	429	
9738	SF4934	Two joining plate fragments, broken in antiquity. Probably part of a tapering strip with a squared terminal and a perforation. L. 50mm, W. 24mm, hole diam. 10mm.	20	426	1082
9796	SF4941	Punch. The head is slightly expanded, and slightly domed. The stem has a circular section, with a blunt tip in poor condition. The tip appears to be slightly distorted, possibly damaged during use.	10	428	1083
10293	SF5592	Strip fragment, with one complete rectangular perforation, broken in antiquity across a second hole. 49x17mm. Hole 4x3mm.	20	427	1246
10506	SF5242	Simple chisel. A small triangular blade with 2mm of the edge turned at right angles. The end of the tang is missing. L. 49mm, blade W. 12mm. Cleaning layer, nd.	10	426	490
10514	SF5373	Woolcomb fragment. The broken teeth are unsplayed. One edge of the handle may be present. 60x30mm.	3	428	490
10621	SF5235	Wire fragment, possibly a needle, although there is no certain eye. L. 42mm, diam. 1.5mm.	20	426	1083

10649	SF5243	Tapering sheet fragment, curved lengthwise. The wider end has a fresh break. L. 42mm, W. 14-24mm.	20		427
10652	SF5246	Probably just a large nail (and included with the nails), this object illustrates the difficulties encountered in identifying simple tools such as punches. The head is damaged, and was probably originally round and slightly mushroom shaped. The rectangular stem tapers regularly to a square tip, 4x4mm. VF notes that the tip <i>may</i> be decorated (which would indicate a punch). However, this could just be ancient damage, so it is probably just a nail. L. 124mm.	X		427 4890 1083
10653	SF5245	Square-sectioned bar in two pieces (recent break). One end is complete as buried, but possibly broken in antiquity. The other bifurcates 14mm from the end. The branches are of unequal thickness, and both were broken in antiquity. L. 188mm, section 9x9mm.	20		429 1387
10682	SF5250	Bar. It possibly tapers at one end, but this is obscured by modern damage. The other end is probably complete, and slightly rounded. L. 146mm.	20		429
10682	SF5601	Two joining fragments, probably part of a blade. The tip may be rounded. L. 42mm, W. 23mm.	10		426 1083
10800	SF5609	Irregular, sub-rectangular block, probably working waste. \varnothing 23x19x8mm.	20		426
10843	SF5758	Thick L-shaped strip, possibly a bracket. In good condition. One end is probably broken across a perforation or slot, the other appears complete and unperforated. Section 31x8mm, arm L. 45mm and 37mm.	20		427 490

Box XXVI

4000	SF6589	Staple, U-shaped, with a chisel point on the surviving point. Possibly modern. L. 45mm, W. 27mm.	11		438
4000	SF6590	Plate fragment, probably with a central perforation. \varnothing 36x28mm, th. 6mm.	20		438
4000	SF6595	Simple chisel, with the end of the tang and one corner of the blade missing. The blade is triangular, with slightly rounded sides. L. 53mm, original blade W. \varnothing 20mm.	10		439
6153	SF6741	Plate fragment, from a strip with one straight edge. The other edge has a complex curve, at least some of which is definitely original. Possibly part of a blank for a knife with a scale tang. One end has a fresh break. L. 46mm, W. 10-17mm, th. 3mm.	20		439 491-2
8167	SF6919	Socketed blade fragment, in two fragments, with the end of the socket and most of the blade missing. The back is straight and thick, 4mm. wide. L. 70mm, blade W. >32mm. In good condition.	10		439
8500	SF6918	Working waste. An irregular, spongy lump, \varnothing 48x35x20mm.	15		440
8747	SF6077	Ring. Section unknown. External diam. 19mm, internal diam. 15mm.	20		438 491
10922	SF5814	Unidentified object. A tapering bar of variable section, both ends broken. The back is flat throughout. One end has a thinner, narrow bar set in line with the back. The adjacent half of the object has a rectangular section with a shallow, stamped rectangle in the middle, notches either side, and a shallow V or U-shaped notch in the middle at the junction with the other half of the object. The lower part has a D-shaped section, with the last 22mm sloped down at an oblique angle. L. 119mm, thin bar 15x7x2mm; section of rectangular part 14x6mm; section of D-shaped part 10.5x5.5mm - 5x4mm. Pit 10953, Period IV	20	x	439
10922	SF5815	Staple. Flat-topped, one arm complete. Section uncertain, probably square. W. 36mm, L. 32mm. Pit 10953, Period IV	11		439
10922	SF5816	Bar, L-shaped, both ends broken in antiquity. The section is	20		439

		square, and it is twisted, probably throughout its length. L. (straight) 135mm, bar W. 6mm. Pit 10953, Period IV			
11000	SF6742	Irregular block. 45x35x13mm. Possibly post-Roman.	20		440
11000	SF6743	Plate, complete as buried. Roughly oval, with a little 'beak' at one end. 57x24x7mm.	20		439
11000	SF6744	Perforated strip, both ends broken in antiquity. The hole is rectangular. 64x20mm, hole 7x6mm.	20		438
11000	SF6916	Oval chain link, with a circular section. 49x21mm.	20		438
11247	SF5255	d) Carpenters dog, one point missing, the other incomplete. L. 158mm, section 19x10mm.	11		340 442 492
11247	SF5255	a) L-shaped bar, in two pieces, rectangular section, possibly part of a flat-topped staple. Both ends are broken, one end recently. Arm L. 50mm and 30mm, section \leq 12x9mm.	20		340 442 492
11247	SF5255	b) Bar. 70x12x8mm.	20		340 442 492
11247	SF5255	c) Bar, possibly burnt. One end is complete, and rounded, the other has a fresh break. 75x12x8mm.	20		340 442 492
11247	SF5255	e) Rectangular block. \leq 29x25x21mm.	20		340 442 492
11247	SF5818	Plate fragment. Rectangular, with a fresh break on one of the short sides. 39x27x3mm.	20		439
11247	SF6913	Sheet fragment, very mineralised. The edges are unclear on the X-ray. It probably has a right angled bend. \leq 35x17mm.	20		438 491
11265	SF6915	Tapering bar, with the wider end turned over by 7mm. Both ends were broken in antiquity. Possibly a staple fragment. L. 52mm, max. section 9x5mm.	20		439 491
11302	SF6976	D-shaped loop, with a diamond-shaped section of variable thickness. The straight side has a small rectangular projection, probably incomplete, and integral with the loop. The surface is flaking. W. 55mm, L. 51mm, max. section 12x10mm. Pit 11303, Period IV-V The object resembles a buckle, but the integral projection suggests that it is not a buckle. It could be part of a strap junction, possibly with loops either end of a bar (cf Unz and Deschler-Erb 1997, Taf. 67, no. 1930). Alternatives might be a terret (although these are normally copper alloy), or could it be the pommel from a ring-pommel sword? Cf Bishop and Coulston 1993, 111, pl. 71 – the size is right, but there is no section given. Parallels	20	x	439
11312	SF6922	Strip fragment, complete as buried. 50x7mm.	20		438
13558	SF6914	Tapering strip, bent into a fairly tight curve, with the narrower end bent at right angles. The other end was broken in antiquity. It somewhat resembles a spokeshave, but the taper is inconsistent with this interpretation. The wider end has a ragged break, suggesting that the object was forcibly broken, and this could be a distorted staple. Many of the late Iron Age staple-like bindings and clamps from Danebury have tops of variable width (Cunliffe and Poole 1991, 353 and fig. 7.24). L. 62mm, W. 9-19mm. Period IIB.	20		440 491
13576	SF6739	Knife, Manning type 4. This type has a narrow, parallel-sided blade with an integral handle with an end loop. Manning considered that they were probably razors, or scalpels (Manning 1985, 110). Most of the end loop is missing, and most of the blade. The handle has a rectangular section. Layer, Period IIIB	10	x	438 491
13887	SF6823	Lift key. The iron is very mineralised, and the X-ray faint. The handle is probably a square bar, with the end looped into a ring	21	x	340 440

		at right angles to the plane of the bit. The bit has two teeth, and, unusually, has a notch between the teeth and the handle. L. 112mm, handle section \leq 8x8mm. Only the detail of the bit is illustrated. Unknown context..			491 492
14533	SF6727	Perforated strip, complete as buried. Circular hole, diam. 6mm. 49x21mm.	20		438
14613	SF6726	Bar with flattened ends, both incomplete. One end may have been a circular or oval terminal, the other is thinner and splays out more gradually. This end may be asymmetrical. In very poor condition. It is possibly part of a box binding strip. L. 93mm, bar section 8x6mm, W. of ends 20mm.	20		440 491
14668	SF6248	Strap terminal, with a looped end, and one nail through a rectangular perforation close to this end. The head and point of the nail are missing. The strap tapers, and is broken at the narrower end. The loop was formed from a tang-like projection, bent over in the same plane, and hammered flat onto the strip, distorting the other face of the strip. L. 81mm, W. 22-10mm.	20		438
14687	SF6246	Small pruning hook, socketed, complete as buried, but very mineralised. There is possibly a nail hole in the socket. The shape of the hook is unusual, with an almost square top, and a straight edge to the blade, which is rather blunt. The tip is a small rounded projection almost at right angles to the blade. L. 87mm.	12	x	440
14706	SF6253	Bar fragment, both ends broken in antiquity. 80x10x8mm.	20		439 491
14706	SF6260	A thin plate, with an irregularly curved edge on one side, and a straight edge, broken in antiquity, on the other. The shaping seems very deliberate, but it is unclear what this is part of. L. 42mm, W. 5-19mm.	20		438
14759	SF6265	Flesh hook, handle incomplete. There are two prongs, one probably complete, with the tips only slightly bent. The handle is broken at the start of a twisted section. L. 175mm, prong L. 25mm. Pit 14758, Period IV	4	x?	439
14765	SF6262	Fragments of a socketed bill, with the socket at an angle to the blade. It is very fragmented, and the surface is flaked. Little of the socket survives, but it was open, and probably squared rather than rounded. There was a short, rather slender, neck between the socket and blade. Very unusually, the open side of the socket is in the plane of the blade. The form of the blade is uncertain, as much of it is missing. It is in two main parts, the smaller of which is only presumed to be part of the object, since it does not join. It probably had a rather narrow blade (as Rees 1976, fig. 227b) rather than a chopper-type blade. The cutting edge is very blunt. Original blade L. >270mm, max. surviving blade W. 75mm. Not illustrable.	12		441
14800	SF6910	Slightly tapering strip, with the narrower end rolled over to form a small loop. Possibly a padlock key handle. L. 67mm, W. 9-11mm.	20		438 491
14805	SF6912	Ring fragment. \leq 50%. External diam. 29mm, internal diam. 22mm. Circular section.	20		438
15000	SF6635	Spike, head broken. Square section. L. 124mm, max. W. 15mm.	11		440
15044	SF6740	L-shaped bar, with a blunt point at both ends. L. of arms 35mm and 30mm. Section 6x8mm.	20		438 491
15353	SF6621	Plate fragment, roughly rectangular, slightly curved widthwise. All the edges are rather irregular, but it is complete as buried. 71x37x1.5mm.	20		438 491
15353	SF6911	Strip fragment, fresh breaks either end. 23x7x4mm.	20		438
15355	SF6624	Strip fragment, twisted, with a fresh break at one end. 58x23mm.	20		438

15355	SF6625	Tapering bar fragment, tapering in one plane only. 36x8mm, W. 6-10mm.	20		439-491
15355	SF6626	One larger and four smaller fragments from a frying pan. The largest piece comprises the start of the handle, with the flanges broken off, and a segment of the side of the pan, broken along the edge of the base. The fragment is now somewhat distorted. The other fragments are parts of the side. The diameter is not measurable. Side ht. 30mm, handle W. 29mm, surviving L. \leq 55mm. Period VI	4		441-492
15458	SF6628	Ring, section probably oval. External diam. 32mm, internal diam. 24mm.	20		438
15462	SF6627	Strip fragment, perforated, complete as buried. 60x17mm, circular hole, diam. 6mm.	20		438
15462	SF6634	A plate of variable thickness, folded in half. Possibly originally a rough rectangle, but one edge is now damaged. There is bone on the surface, not directly associated with the object. 62x34mm (folded), max. th. 6mm.	20		440
15462	SF6648	Simple chisel, with a roughly semi-circular blade, curved edge to the tang. The edge is incomplete and damaged. Cf Manning 1985, 24, nos. B43 and B44. Possibly Iron Age.	10		438-491
15463	SF6631	The tip of a large bill, with a 'beaked' point. In good condition. The width is variable, and the overall form may have been similar to Rees 1979, fig. 226. L. 95mm, max. W. 63mm. Posthole 15466, Period III	12	x	441
15463	SF6632	Rounded lump, possibly a weight or a plumb bob. Sub-spherical, with the surface flaked in places. Diam. \leq 30mm. Posthole 15466, Period III	20		440
15515	SF6644	A very small, roughly semi-circular, tanged blade. There are traces of a bone handle on the incomplete tang. Manning type 13. The type includes a number of small examples, but this is unusually small, verging on a miniature. The presence of a bone handle suggests that it is a functional object rather than a model, and it may have had a specialised function. Total L. 62mm, L of blade 37mm, W. 19mm. Pit 15514, Period IV	10	x	438
15515	SF6645	Strip fragment, complete as buried. 38x22mm. Pit 15514, Period IV	20		438
16023	SF5649	Iron handle mount. It comprises an oval loop, with a thinner bifurcated plate at the base. The edge is cracked and incomplete, and may have been oval originally. There is a small detached portion which has not come out on the X-ray. There is a piece of copper alloy sheet sandwiched between the two iron leaves, fastened by an iron rivet with a large, kidney-shaped head (possibly damaged in antiquity) and a small circular back. The copper alloy sheet does not appear to reach the edge of the iron plate on one side, but both metals are in poor condition, and the X-ray is not very clear. The copper alloy is presumably part of a sheet vessel, with the iron handle clipped over the rim and riveted on. L. 59mm, W. of loop 25mm, th. of loop 10mm. Prepared surface, Period IIB	4	x	440

Box XXVII

5808	SF6432	Small strip fragment, tapering to a point at one end, other end has fresh break. Probably a staple arm, although it could be a buckle tongue. L. 40mm, max. section 4x1mm. There is another small fragment of strip corroded on.	20		450-878
6000	SF6434	Sheet fragment, quite thick, with \leq 8mm of one edge bent at right angles. One end has an old break, the other a fresh break. There is a rectangular perforation at an angle to the edge, an unusual orientation. This is possibly an edge binding, although	20		451

		the perforation is somewhat odd. L. 58mm, W. 39mm, Th. 4mm. Hole 14x5mm.			
6782	SF5641	Bar, very mineralised, completeness uncertain. There is a circular perforation in the middle of one end. \varnothing 60x25x8mm, hole diam. 9mm.	20		453 880
6828	SF6209	Blade fragment, with a straight back, the edge curving evenly to the point. The tang or socket is completely missing. The blade is quite substantial, originally about 6mm across the back, and is probably from a heavy duty blade such as a chopper rather than an ordinary knife. L. 90mm, max. W. 32mm.	10		454
6907	SF5642	Strip fragment, one end possibly original, the other with a fresh break. 89x29mm.	20		450
6911	SF6427	Irregular block, with one end squared and the other very irregular. The sides splay slightly. Probably working waste. \varnothing 60x37x20mm.	15		454 880
8278	SF6215	L-shaped bar. One end is complete, with a straight edge, possibly slightly bevelled either side. The other end has a fresh break. Section 26x10mm, complete arm L. 50mm, broken arm L. 31mm.	20		452 880
8514	SF6210	Rod with a circular section. One end is broken at a bend in the rod, the other has a bulbous terminal, probably biconical. The metal is in poor condition. Possibly part of a large drop handle. L. 64mm, diam. 8mm, terminal 12x10mm.	20		452 882
8563	SF6040	Probably a small sheet fragment, although it could be a nail head. \varnothing 12x12mm.	20		450 878
10877	SF5767	Bar fragment, broken in antiquity, with a large, looped terminal. This could be from a number of things, such as a latchlifter (cf Manning O8, or ?strigil K4, which is very similar in shape). L. 53mm, bar section 11x8mm, loop external diam. 30mm.	20		451
10891	SF5799	Strip, bent to form a spike at right-angles, other end broken. Probably a flat-topped staple. L. 72mm, max. W. 20mm, arm L. 37mm.	11		452
10891	SF6438	Strip fragment, with round terminal, unperforated. The other end has a fresh break. L. 39mm, strip section 11x3mm, terminal diam. 16mm.	20		450
10891	SF6440	Narrow strip with a flame-shaped terminal, possibly perforated (Cf 24243, SF7933). The other end has a fresh break. L. 63mm, strip section 9x4mm, terminal L. 25mm, W. 16mm. This is quite a delicate piece, and is probably a box fitting, as may be SF6438 and SF6441, from the same context. However, the terminal of SF6438 is unperforated, and the terminal of this piece may not be perforated, and these may be unfinished objects.	4		450
10891	SF6441	Strip, slightly tapering, and possibly part of the same object as SF6440. One end has a fresh break, and the other end may be twisted. L. 77mm, max. section 7x3mm.	20		450
10930	SF6382	Strip fragment, possibly with a broken projection on one side. One end has an old break, the other has a recent break. 40x10x4mm.	20		450
10978	SF6444	Stylus. Manning type 1, with a wedge-shaped eraser. L. 148mm. Layer, not phased	7	x	451
10994	SF5793	Strip fragment, unperforated. Both ends have old breaks. 35x18mm.	20		450
11000	SF6401	Working waste, dense, with irregular edges.	15		452
11000	SF6403	Bar fragment, unperforated, possibly with a wedge-shaped section. 76x \varnothing 35x8mm.	20		454
11063	SF5797	Socketed small cleaver or knife, with mineralised wood in the socket. The back is angled down from the junction with the socket, a probable early Roman feature in knives (Cf Manning 1989, 113, type 8); for similar cleavers see Manning 1989, 123,	10	x	455

		type 6, although in the present case the handle would be parallel to the blade. L. 166mm, max. blade W. 48mm. Ditch 11062, Period II			
11091	SF5804	Bar fragment of constant thickness, possibly slightly tapering. L. 48mm, section 13x5mm.	20		451
11139	SF5808	Hipposandal wing, distorted by recent damage. The end of the wing is looped. This form of hooked wing is relatively rare; normally, where the side wings sweep forward to a hook, both side wings are joined in a single loop. There is a parallel from Verulamium (Manning 1984, 87, no. 25), and examples from London and various sites in Germany are cited. L. 92mm.	8	x	452
12000	SF6390	Ring. External diam. 52mm, internal diam. 39mm.	20		451
13576	SF6212	Thin bar, with a square section, now distorted, with recent damage. Both arms have fresh breaks. Possibly a flat topped staple. W. 49mm, surviving arm L. 67mm, section 4x4mm.	20		450
13800	SF6454	Tanged knife, Manning type 8?. The tip of the blade is missing but the tang is probably complete. It is sturdy, and non-tapering, with an oval or rectangular section, and two circumferential grooves at the end. There is mineralised wood on the tang, but it is unlikely to be part of the handle as its orientation is wrong. L. 125mm, tang section c 9x7mm. Pit 13809, Period III	10	44	451
13801	SF6455	Small bar, tapering at both ends, completeness uncertain. This might be a small awl. L. 36mm, max. section 3x3mm.	10		450
13801	SF6456	Bar fragment with a square section, irregularly curved. Both ends were broken in antiquity. This is possibly a nail shaft, but there is no visible taper. L. 42mm, W. 2.5mm.	20		450
13813	SF6431	Iron plate fragment, in very good condition, with sharp breaks on all sides. N. de Silva notes that it is probably cast iron. This implies that it is a modern contaminant, although it has slight concretion of the surface, suggesting that it was not introduced during the excavation. Trench 18697, Period IIIB. Is there anything about the context which could lead to abnormally good preservation? Check VF's views. 42x7x2mm.	20		450
14225	SF6221	Strip fragment, slightly curved widthwise, broken at both ends. 55x22mm.	20		451
14381	SF6406	Bar, ring-headed, complete as buried. The end of the rod is slightly curved, and appears rounded rather than broken. If this is not complete, it could be a rod handle from a lift key, as Manning O37, although the rod appears to be tapering, which is not consistent with an identification as a key handle. The section is uncertain. L. 103mm, max. W. 6mm, external diam. of loop 18mm.	20		451 882
14389	SF5549	Plate, cut into a complex shape. One end is half a hexagon, with a central hole punched through, diam. 10mm, and two smaller holes in the corners, diam. 4mm. The other edge of the plate is partly missing, and now bent, but if originally symmetrical it would have been rectangular, narrower than the hexagon, with a large central hole, diam. 31mm. It is in good condition, and VF suggests that it may be modern. If it really is contemporary with its context, and not a modern contaminant, then it could be some sort of box fitting. W. 61mm, L. 47mm. Layer, Period IIC	20	x	450
14423	SF5552	Strip fragment, no perforations. One end is twisted up, as if by force, and the edge is slightly buckled in places, suggesting that this is scrap metal or working waste. 91x19mm.	20		452
14484	SF6217	Ring, section probably circular. External diam. 42mm, internal diam. 34mm.	20		450
14516	SF6214	Stylus, Manning type 4, with a slightly shouldered, flared eraser. The shaft has two bands of shallow grooves, and the point is missing. It is slightly bent. L. 97mm. Cleaning layer, not phased	7	154	450 1514

14521	SF6224	Strip fragment, heavy, with a D-shaped section. It has strange cracks in the middle, and is broken at both ends, one break being recent. 114x38x13mm.	20		455
14594	SF6236	a) Strip with one squared end. The other end has a fresh break. There is a square perforation 36mm from the end. 90x22mm, hole W. 6mm. Cleaning layer, not phased	20		452
14594	SF6236	b) Plate fragment, complete as buried, bar damage to one corner. Roughly rectangular. Probably an offcut produced during smithing. c 42x39mm. Cleaning layer, not phased	15		452
14594	SF6244	'Pruning' hook. A very small hook with the blade broken, and the remains of a flanged socket and external tang. This was a delicate little blade, too small for heavy work, and verging on a 'miniature', though not substantially smaller than some of those illustrated by Rees (1979).. L. 95mm, W. 14mm. Cleaning layer, not phased	12	x	452
15024	SF6404	a) Linchpin head, with most of the loop missing. Manning type 2b, with a spatulate head. Head L. 35mm, W. 37mm, overall L. 63mm. Cleaning layer, not phased	8		455 881
15024	SF6404	b) Bar fragment, with one end turned at right angles. Both ends are broken. This is probably part of a flat topped staple. The top has a constant section, probably rectangular, L. 94mm, W. 27mm. Arm L. 25mm. Cleaning layer, not phased	11		455 881
15024	SF6404	c) Cylinder, possibly a weight. Diam. 30mm, ht. 24mm. Cleaning layer, not phased	20		455 881
15024	SF6404	d) Fragment, probably part of a disc, diam. c 25mm, Th. 10mm. It has a central hole, diam. c 4mm, possibly not completely perforating the object. Possibly a large nail or stud head. Cleaning layer, not phased	20		455 881
15025	SF5925	Very fragmented plate, original shape uncertain, with straight edges and at least one right-angled corner.	20		453 878
15117	SF5913	Sub-rectangular lump, possibly a nail head. 17x16x6mm.	20		450
15150	SF5921	Flat plate, curved, with a broken flange along the inside of the curve. Both ends are also probably broken. There is one perforation, in the middle of the curve, diam. 5mm. Variable W., 21-26mm, L. 52mm. SF6216, from the same context, is almost identical. If it were not for the flange, these pieces could be seen as curved terminals from strap hinges, as Manning R8. Pit 15231, Period V	20	x?	452
15150	SF5928	Ferrule? Conical, with a blunt point. The other end was broken in antiquity. It has a very wide gap, more of a channel than a socket, and it is difficult to see it functioning as a ferrule. However, it could be an unused example. It is similar in form to Manning S63, which is described as a ferrule, but also has a very open socket. L. 104mm. Pit 15231, Period V	11	x	454 879
15150	SF5928	Two objects, loosely corroded together at an angle when found. They are unlikely to be parts of the same object.			454 879
15150	SF5928	Tang, probably from a small reaping hook with a flanged socket, as Manning F36. Only part of the flange survives, and it is somewhat distorted. L. 64mm, socket diam. c 25mm. Pit 15231, Period V	12		454 879
15150	SF6216	Flat plate, almost identical to SF5921, from the same context. It was not cleaned, and there may be no flange; there is no suggestion of one on the X-ray. There is possibly a nail shaft in the perforation. L. 51mm, max. W. 25mm.	20		452
15150	SF6429	Flat plate, with a shallow curve. One end has a short arm, possibly complete, at right angles, set on one edge rather than in the middle of the end. The other end was probably similar. This may be a flat topped staple or a large cleat, although it is rather thick. There is a small lump of ?lead in the corrosion, and a lot of little flecks of the same material. L. 72mm, max. W.	11		453 879

15151	SF6208	18mm, Th. 9mm, arm L. 12mm. Pit 15231, Period V			
15233	SF5940	Strip fragment, complete as buried. 71x23mm.	20		452
		Linchpin head, Manning type 2b. The spatulate head is somewhat lopsided, and the loop is set considerably off centre, almost completely off the line of the shaft. L. 70mm, head 54x38mm. Pit 15232, Period VI	8		454
					880
15233	SF6435	Ox-goad, Rees type I, with two coils. The point has broken off. External diam. 16mm, internal diam. 12mm, L. 20mm.	12		452
					882
					1514
15233	SF6436	Five small sheet fragments, all joining to form a fragment about 25x25mm.	20		450
					878
15233	SF6439	Double spiked loop. One arm was definitely broken in antiquity, and the other is probably incomplete. This is a heavy duty loop with a broad head. L. 74mm, W. across loop 30mm, section of loop 8x20mm.	11		454
					1389
					1521

Box XXVIII

11000	SF5705	Punch, with a circular button head, now damaged, and a swollen handle. The point is bent and the tip is missing. The section is square throughout. L. 195mm, diam. of head 18mm, max. W. of handle 18mm. SF5705, Machining layer 11000.	10	x	459
					1388
12206	SF4795	Block, almost a perfect rectangular cuboid, though varying slightly in thickness. 50x33x15mm.	20		459
					884
					1388
11000	SF5322	Ring. Circular section. External diam. 43mm, internal diam. 34mm.	20		456
11000	SF5375	Ring. Probably oval section, \varnothing 6x3mm, thicker on one side. External diam. 41mm, internal diam. 34mm.	20		456
11000	SF5408	Bar, possibly a punch or other tool, but there is no flattening of the head apparent. However, the head may not be complete, and the point is damaged. It probably tapers slightly towards the head, which is typical of a punch. L. 71mm, max. W. 7mm.	20		456
11000	SF5566	Roughly rectangular lump with an irregular section. \varnothing 26x24x8mm.	20		456
11000	SF5572	Ring. External diam. 62mm, internal diam. 52mm.	20		459
					883
11000	SF5615	Bar fragment with a wedge point. Possibly a small chisel, but it is unclear whether either end is complete. L. 36mm, W. 4mm.	20		456
11000	SF5691	Chisel, head probably burred. It has a thin, parallel-sided blade, with an expansion in the middle of the shank. Manning suggests that this form is a hot chisel, cf Manning 1985, A21. L. 112mm, W. 15mm, max. th. 16mm. Machining layer, 5100/8030	10	65	459
11000	SF5703	Joiners dog, the points missing. Top bar section 17x14mm, L. 126mm, arm L. 52mm and 48mm.	11		459
11000	SF5704	Bar, slightly tapering, and probably broken at the other end. The other end is bifurcated, with one arm tapering regularly to a point in the same plane as the bar. The other arm projects at \varnothing 30° to the bar, and also tapers to a point. The angle between the arms has had a short slot taken out of it. This is possibly an unfinished flesh hook, with the second hook which is normally present as yet unmade. L. 114mm, section \varnothing 11x5mm. Machining layer	20	82	456
11000	SF5708	Complete perforated strap with three equally spaced perforations. One end is straight, the other has an ogee curve. Twisted, possibly forcibly removed from the object it was attached to. This is in good condition, and is possibly post-	20		456

		Roman. L. 97mm, W. 22mm, hole diam. 5mm.			
11000	SF5712	Strip with a ring terminal in the same plane, and of the same thickness. The strip widens slightly towards the other end, which is broken. The terminal has a slightly angular shape, and may have had a knob on the end. This is possibly a key handle; the ring terminal certainly resembles those found on keys (for example, Manning O44), although the strip is very flat for a key handle, and the identification must be considered tentative. L. 83mm, max. W. 17mm, Th. 5mm.	20		456
12053	SF5594	Sheet fragment, possibly with a wavy edge, possibly broken across a hole. It is unclear which, if any, of the edges are original. $\leq 57 \times 26$ mm.	20		458
13021	SF3572	Strip fragment with a tapered end, coming to a blunt point. Bent in half at an angle. It has one circular perforation 26mm from the broken end. L. (unbent) 135mm, W. 17mm, hole diam. 3mm.	20		458
13028	SF4389	Knife blade point, with a fresh break. It has a straight edge and an angled back, as, for example, Manning type 4. L. 45mm, max. W. 16mm.	10		456
13063	SF3369a	Curved plate fragment, probably part of the same object as SF3372. $\leq 54 \times 21$ mm.	20		456
13063	SF3369b	Thin tapering strip fragment with a fresh break at the narrower end. Possibly a blade segment. L. 32mm, W. 19-24mm.	20		456
13063	SF3372	Plate fragment, possibly a vessel rim; curved in both directions, and probably with an original straight edge. Probably part of the same object as SF3369a. $\leq 55 \times 19$ mm.	20		456
13063	SF5359	Small bar fragment with a slightly flared wedge point. Probably a tool. L. 27mm, section 9x7mm.	10		456
13194	SF5588	Lump, possibly just a concretion. The X-ray is very fuzzy, and obscured by a stone, and there is no reaction to a magnet. If this was ever an object, it is very mineralised.	20		459 883
13196	SF3527	Strip fragment, with rather irregular edges, both ends broken in antiquity. 63x19mm.	20		458
13196	SF3535	Bar with a variable rectangular section, thickest just below the head. The head is narrow, and slightly burred. The point is blunt, and slightly bent. Probably a punch. The tip is damaged, but was probably pointed. L. 107mm, max. section 12x12mm. Gully 13242, Period IIIB	10	x	459 884
13212	SF5102	Bar fragment, tapering at either end, with a fresh break at one end. L. 33mm, max. W. 10mm.	20		456
13223	SF3534	Plate fragment, with an original right angled corner. Bent, but possibly subsequent to disposal. 44x31mm.	20		456
13223	SF5587	Bar, slightly tapering, end curved. Possibly a nail shaft. L. 80mm, max. W. 8mm.	20		457 884
13225	SF5600	Plate, complete as buried. It tapers, and is curved lengthwise. The narrower end is curved back on itself to form a small loop. Possibly scrap metal. 57x26mm, Th. 8mm.	20		458
13272	SF5110	Strip fragment, tapering, with damage to the edges, and fresh breaks at both ends. The section is probably D-shaped. L. 92mm, W. 11-16mm.	20		457
13278	SF4713	Padlock key. It has a strip handle, with the end loop missing (a fresh break), and broadens slightly to the bit, most of which was lost in antiquity. L. 126mm, section 10x3mm.	111		459 885
13290	SF4718	Saw blade fragment in two pieces, from a fairly wide handsaw. There are no teeth visible for the first 24mm, so this is presumably from near the handle end, although there are no perforations present. The teeth are slightly raked, but not set, with ≤ 3 teeth per cm. One corner of the back is turned over. L. 90mm, W. 59mm. Pit 13358, Period V. N.B. Now in Box 38 by mistake	10	98	458

13292	SF4710	Small strip fragment, both ends broken. One end is curved. L. 19mm, section 4x3mm.	20		456 1007
13292	SF4715	(part) Strip fragment, broken both ends. 20x4x2.	20		456
13316	SF5114	Bar, square-sectioned, tapering both ends. Complete as buried. L. 210mm, max. W. 9mm.	20		459 1387
13316	SF5117/5 595c	Two joining pieces (fresh break). Strip fragment with two perforations, one with the remains of a nail, head diam. 16mm. There is a narrow projection at one end, in line with the edge, possibly the remains of a loop. The other end is broken. This may be a bucket mount, although it is rather thick. L. 104mm, W. 25mm, hole diam. 6mm.	20		458
13316	SF5595a	Woolcomb fragment. The plate appears to be the full width, although very narrow for a woolcomb (Parallels?). The teeth are splayed, and damaged. The woolcomb from Dunmow (Wickenden 1988, 56, no. 14) also has splayed teeth. One side looks to be original on the published X-ray, and if symmetrical, the width would be similar to the Heybridge example. NW suggests a new type? W. 40mm, surviving plate L. 27mm, max surviving teeth L. 32mm. Cleaning layer, not phased	3	83	458
13316	SF5595b	Sheet fragment, roughly semi-circular, very mineralised. Unclear whether the edges are original. c 27x16mm.	20		458
13329	SF5836	Strip. One end is probably broken, the other may be complete. The latter end is bent up slightly, and appears to taper to an edge. This may be the result of having broken at a bend. Probably a binding strip. 66x58x7mm.	20		458 884
13360	SF5119	Strip fragment, perforated. Probably a rectangular washer with one corner missing. 16x27mm, hole diam. 7mm.	11		456
13360	SF5120	Strip fragment, slightly twisted, with a curved notch out of the side. Both ends probably broken in antiquity. 66x14x7mm. Cf 14093, SF5525.	20		457 884
13419	SF4739	Tapering strip, with the narrow end coiled round in the same plane. The other end was broken in antiquity, and is bent. Possibly part of a fitting. L. 60mm, max. W. 15mm. Layer, Period II-VI	20	66	459 883
14002	SF5430	Probably a simple chisel with the blade bent at right angles to the tang. L. 48mm, L. unbent 67mm, blade W. 11mm.	10		457 884
14022	SF5438	Bar, in good condition. It has a square section, tapering to one end, which is curled over. The other end is bent slightly, and there is a ragged old break, probably made by force. Scrap metal? L. 102mm, max. section 8x8mm.	20		457
14022	SF5448	Triangular plate fragment in good condition. All edges appear to have been cut. Although resembling a knife tip, the plate appears uniformly thin, with no suggestion of an edge. Scrap? L. 74mm, max. W. 28mm.	20		456
14022	SF5581	Small, tapering bar fragment with rectangular section. It has a rectangular perforation in the centre, and is probably broken across a second perforation. L. 42mm, max. section 7x3mm, hole 2x2.5mm.	20		456
14022	SF5597	Plate fragment with a rounded edge, perforated. Possibly has bone on the surface. Fresh break. 42x42mm, hole diam. 7mm.	20		456
14052	SF5434	Bar fragment. The shape is somewhat unclear. There is recent damage to one end. c 45x18x15mm.	20		457 884
14089	SF5450	L-shaped lift key with three teeth. Rectangular handle with a groove round it, just above the shaft. L. 141mm. Pit 14098, Period IV-V	111	81	457
14093	SF5524	Padlock key, with a strip handle. The end loop and most of the bit is missing. L. 102mm, W. 12mm. Pit 14099, Period IV-V	111		457
14093	SF5525	Strip, with an irregular curve. It has a curved notch out of one side, 10mm across, very similar to the notch on SF5120 (13360). One end is bent at right angles, and tapers to a point,	20	84	457

		slightly upturned. The other end is broken. Were it not for the notch, this could be seen as just a distorted carpenter's dog. Could it be part of a lock? Parallels? L. 64mm, W. 10mm, L. of arm 36mm. Pit 14099, Period IV-V			
14093	SF5538	Folding knife, in very poor condition, with the blade partly folded back against the iron handle ferrule. The socket has an internal diam. of 9mm, and has two opposed rivets visible near the end. There is a clear impression of the handle in the corrosion at the end of the socket, showing that it had a diameter \leq 3mm more than the internal diameter of the socket. There is a skin of mineralised wood in the socket, and the slit in the wood for the blade to slot into still survives. The ferrule is made from a sheet formed into a tube with the edges almost butted, as SF4163/4, with the end crimped to hold the butt end of the knife. The end of the tube and the lugs are missing, but the partial outline of one lug can be seen on the blade, round the pivot hole. The shape of the blade is clearer on the object than the X-ray, as the metal is very mineralised. Very little of the original edge survives, and the point and butt are damaged, but it probably had a straight edge and rounded back. L (folded) 69mm, max. external diam. of handle 13mm. Pit 14099, Period IV-V	10	x	457 885 1007
		This object is very similar to knife SF4163/4 from 4881, and it transpires that one of the find spots (which?) is on top of Pit 14099. It is therefore almost certain that both came from the same pit. The form is of interest, in that all other folding knives of this type that I know of have copper alloy ferrules. There are two examples from Exeter (Allason-Jones 19xx, 249, nos. 52 and 53) from contexts dated \leq 275 and late 3rd-4th cent; three from Chichester (Down 1978, 293, no. 27; Down 1989, fig. 27.2.25 and 28.3.31), one check date and one residual in a medieval pit; and an unstratified example from Brancaster (Sparey Green and Hinchliffe 1985, fig. 33, no. 63). One of the Chichester examples retains its horn handle. and some have decoration on the copper alloy ferrule, walked scorper at Chichester and hatched at Brancaster.			
		There is, however, a possible parallel from Richborough (Henderson 1949, 132, no. 145 and pl. XXXIX), which appears to be a closed folding knife, lacking the pivot end. The slightly tapering ferrule is stated to be made of iron, but coated with bronze. It is possible that the ferrule is in fact copper alloy, as with the other examples, the apparent iron component being the result of corrosion from the blade.			
14204	SF5453	Tool?. Flat spatulate head with a rounded end, narrowing to a broken 'tang' thicker than the head. Parallels? L. 69mm, head W. 14mm, tang section 9x5mm. Foundation pit 14203, Period VI	20	85	457
14204	SF5535	Bar fragment, surface flaked, fresh break both ends. Square section. L. 101mm, W. 8mm. Foundation pit 14203, Period VI	20		457
14206	SF5456	Leaf-shaped plate with a short projection at one end, and probably with another broken off at the other end in antiquity. It is possibly a large (unused?) cleat. It is similar (apart from being flat rather than curved) to Manning S131, an arched plate with short projections at either end, from Hod Hill, possibly mid 1st century, which Manning suggests may have a specialised function. L. 79mm, max. W. 31mm. Pit 14207, Period II A-B	20	86	457
14226	SF5608	Strip fragment. One end has a fresh break, the other tapers in	20		456

14226	SF5610	one direction only to a point. It resembles a knife point, but has no edge. L. 48mm, W. 9mm. Bar fragment, variable section, probably tanged. Possibly a knife fragment.	20	457
15006	SF4945	Tapering strip with a slightly curving edge on one side, with a fresh break at the narrower end. Probably not a blade fragment as the taper does not appear to very regular (although the X-ray is not very clear), and the thickness is variable. Slightly bent. L. 80mm, section 28x1.5mm to 24x6mm.	20	458
15006	SF4946	Strap terminal, fresh break, tapering slightly to a broader, slightly rounded terminal with a circular perforation. L. 88mm, strap W. 22-19mm, terminal W. 26mm, hole diam. 6mm.	11	458

Box XXIX

Cont	SF	Description	Func.	Draw	X-ray
6320	SF2359	Working waste. Roughly oval block with irregular edges, covered in pebbly concretion. c 70x75x15mm.	15		461 4529
6382	SF2360	Four lumps, iron very mineralised, X-rays not very clear. The largest piece is probably a bar, L. c 100mm, section c 18x8mm. One end probably has a small loop, with a ring through it. The other end is bent at c 90°, and probably tapers. The other three fragments are small bars resembling nail shafts, but possibly with a circular section. It seems most likely that these are all parts of a latch lifter.	21		462 886
9488	SF3294	Knife, complete but in three pieces, with a scale tang, and a broken suspension loop. Straight cutting edge, with the back sharply angled down to the point. There is no obvious break between the blade and tang, which are the same width, but the tang must be relatively short, as an edge is still visible in the break nearest the loop. This is a knife of Manning's Type 1a (1985, 109), which he cites as an early type, commonest in the 1st cent. AD. L. 135mm, W. 15mm. Period II C	10	6	
9488	SF3294	Three small lumps, one probably a sheet fragment, two possibly working waste. Period II C	20		460
10569	SF5226	Socketed object. The base of the socket is damaged. The other end is a rod with a circular section, the end of which was broken off in antiquity. It seems too large for a spear or knife handle, but could be something of the size of a pitchfork or a turf cutter. L 280mm, L. of socket c. 135mm, max. diam of socket 32mm, diam. of rod 16mm..	20		4535
13216	SF5105	Linch pin with oval head and loop. Manning type 2b. It is very similar to a linch pin from Great Wakering, Essex (Manning 1985, 74, H41), except that the present example has a more definite slight rebate at the bottom of the pin. L. 128mm, head 60x35mm. Pit 13358, Period V	8	7	461 887
13216	SF5106	Bar, probably of constant width, with one end curved in the flat plane of the object, broken at both ends. An incomplete nail is corroded on. It is probably a joiner's dog, or a masonry cramp; it is similar to 5210, SF8220, which was a possible latch lifter blade, except that here the straight part is too long for such an interpretation. L. 115mm, section 11x5mm. Pit 13358, Period V	20		460 887

Box XXX

4000	SF255	Hipposandal, type 2 (Manning 1985, 65), with the side wings meeting to form a hook at the front. Almost complete, but flattened, with damage to the front and the rear hook. The base	8	drawn	4528
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is ridged, a fairly common feature of hipposandals, which probably improved the grip of the shoe. L. 224mm, W. 115mm.

Box XXXI Objects not worth X-raying, from the bulk nails

12000	Wire fragment. L. 30mm, diam. 3mm.	20	
12108	Rod with circular section, broken both ends and badly damaged in the middle. Possible a stylus, but too incomplete and damaged to be certain. L. 37mm, diam. 3mm.	20	

Iron Box XXXII Contexts 13238-15353

Objects extracted from the bulk iron nails, for X-ray, Mar. 1996

13238	Rod fragment, with a rounded square section. One end has a fresh break, and the other is rounded and possibly original. L. 106mm, W. 7mm.	20		613
13238	Tapering bar fragment, possibly not a nail shaft. Both ends were probably broken in antiquity. L. 45mm, W. 8-12mm.	20		613
13277	Strip or bar fragment, probably tapering, and with the broader end turned up at right angles. Possibly a chisel, but the edge is very blunt. L. 48mm, max. W. 17mm, th. 6mm.	20		614
13348	Sheet fragment with no certain original edges. It is probably broken across a rivet hole.	20		616
13348	Small wedge-shaped fragment with a bevelled point. Possibly a small wedge, possibly just working waste. L. 33mm, max. section 11x8mm.	20		616
13387	Needle, Crummy type 2a. The top of the head and the point are missing, both old breaks. In two pieces, broken in antiquity. This type is rare in iron. L. 101mm. Pit 18019, Period III	3	126	617
<p>Not all of these objects have been identified as needles. Manning (1985, 86, N9) illustrates an example from London as a stylus, noting that the hole in the eraser is probably intentional. The criterion for Crummy's type 2 needle is the flat spatulate head, and while most examples have fairly narrow heads, and are clearly needles, some in copper alloy have broad, flared heads, similar to stylus erasers, with the eye set at the base. The shafts are mostly thin compared to definite styluses, as with the Elms Farm and London examples in iron, and it seems more likely that they are genuinely needles rather than an unusual form of stylus. Indeed, they may be more common in iron than is apparent, since without the benefit of X-rays they are indistinguishable from styluses. The type in copper alloy is predominantly 1st-2nd century AD.</p>				
13394	Bar with a variable section, square at one end and round at the other. Both ends are missing. Possibly part of a tool, but has an unfinished sort of feel to it. One end may have been deliberately cut. L. 82mm, W. 8.5mm.	20		617
13403	Bar with a D-shaped section. One end has a fresh break, the other is bevelled, and possibly complete. L. 42mm, section 11x6mm.	20		615
13419	Two amorphous lumps, one possibly with a nail shaft corroded on. c 10x12x?; c 28x18x?	20		613
13419	Wire fragment, possibly a needle point. One end has a fresh break. L. 26mm, diam. 1.5mm.	20		613
13499	Conical socketed ferrule. The section is uncertain, and is possibly square. Part of the socket was broken off in antiquity,	11		614

	but the length is complete. The socket is now almost triangular in section, but may be distorted. L. 114mm, max. diam. 19mm, depth of socket 37mm.			
13568	Probable tapering strip. (Not X-rayed)	20		
13624	Fragment of ?sheet, very mineralised.	20		617
13624	Two strip fragments from a curved strip, possibly a collar. Fresh breaks. W. 12mm.	20		617
13666	Small lump, c 6x6x?mm	20		616
13801	Small awl or drill bit. Rectangular sectioned, swollen shaft, tip missing. L. 48mm. Unknown context	10	104	617
14022	Bar fragment, probably with an oval section. It appears to be bevelled at both ends, and could be part of a horse bit link, with the loops at either end missing. L. 43mm, section 10x9mm.	20		617
14043	Twisted bar fragment, complete as buried. L. 76mm, section 9x4mm.	20		616
14052	Bar fragment. It was partly cleaned, but the surface is in poor condition. One end is definitely broken, and the other may be slightly burred, suggesting that this is a tool. The object is in too poor condition to be certain. L. 80mm, section 15x12mm.	20		615
14083	Curved bar, both ends broken in antiquity. L. 45mm, section 9x4mm.	20		615
14093	Bar fragment, one end flattened. Both ends are bent. Possibly scrap metal. L. 81mm, section 8x8mm.	20		614
14093	Simple chisel, complete. L. 45mm, blade W. 9mm.	10		614
14093	Spoon bit, stem missing. It is possible that one of the 'nail shafts' from the context is part of this object, but the break is ancient, and although it was corroded onto several other pieces of iron, none of them joined. Oval, L. 29mm, W. 10mm.	10		614
14093	Wire fragment, bent. L. 28mm, diam. 2.5mm.	20		614
14201	Bar fragment, probably part of a gouge. The end is flattened, with a very shallow curve. L. 39mm, W. 7mm.	10		617
14206	Strip, one end complete as buried, the other with a fresh break. The section is rather variable. L. 40mm, section c 13x6mm.	20		616
14377	Stylus, with the eraser end missing. The handle has a tapering circular section, with a sharply defined shoulder above the square-sectioned point. L. 84mm. Pit 14376, Period II C	7	127	617
14466	Strip, tapering either end. Complete as buried. One end is curved. L. 49mm, max. section 7x2.5mm.	20		616
14468	Ring, . 50%. The thickness of the hoop is slightly variable. The object is entirely covered by a fairly solid white material, forming a disc. This appears to be some form of calcareous deposit. Ext. diam. 24mm, internal diam. 16-18mm.	20		617
14503	Bar fragment, probably not a nail shaft. One end has a square section, broken in antiquity, and is curved. The other end has been flattened into a strip of constant width, and possibly constant thickness. L. 41mm, section 4x4mm – 4x1mm.	20		617
14516	Tapering bar, with a rectangular section. One end has a blunt point, the other is bevelled. Possibly an incomplete simple chisel. L. 54mm, max. section 6x4mm.	20		617
14572	Strip fragment. 35x3x1.5mm.	20		617
14609	A simple stylus with an undifferentiated point and a narrow eraser. The section is circular throughout. In two pieces, with an ancient break. L. 123mm. Cleaning layer, not phased	7	103	617
14609	A small tool, probably a delicate punch rather than an awl, as the point is very blunt. The shaft is thicker in the middle, with a square section at one end and a round section at the other. The top has a small square button, possible incomplete. The tip is bent. L. 76m, max. W. 5mm. Cleaning layer, not phased	10	125	617
14613	Horse bit link, from a single jointed snaffle bit. The plain bar has a loop at either end, in orthogonal planes. One loop is	8		616

14635	incomplete. In poor condition. L. 77mm, bar section 9x7mm. Probable simple chisel with the blade bent back on itself and the shank distorted. L. 50mm, max. W. 16mm	10	617
14765	Bar, with a very slight taper, in good condition. It is heavy for its size compared with most of the Roman ironwork from the site, and could possibly be intrusive. L. 64mm, section 10.5x8mm. Cleaning layer.	20	617
15006	Irregular lump, probably working waste. c 44x17x18mm.	15	610
15006	Strip fragment, tapering to an original rounded end. The other end is obscured on the X-ray. L. 41mm, W. 9-13mm.	20	610
15024	Lump, probably working waste. The X-ray is very shadowy and amorphous. c 20x14mm.	15	610
15150	Small strip fragment with a D-shaped section. Fresh breaks. 17x11x4mm	20	611
15150	Square sectioned block with irregular ends. Working waste? 40x12x12	15	611
15152	Bar, both ends broken. One end has 'exploded' due to corrosion, distorting the shape. Possibly a large nail shaft. L. 112mm, W. 6mm.	20	611
15230	Tapering bar fragment in very poor condition, with little metal surviving. The thicker end at least was plated with copper alloy, now very powdery. Whilst resembling a nail shaft, the presence of the plating suggests that it is not a nail. L. 41mm, max. W. 7mm.	20	616
15353	Bar, one end pointed, and the other flattened and curled back on itself. It appears complete, but doesn't look very functional, so may be working waste or scrap. L. 53mm, head W. 12mm.	20	615
15353	Strip fragment with a D-shaped section and a flattened oval terminal with a punched hole. The break is ancient. Probably part of a box angle bracket. L. 33mm, section 7.5x5mm, terminal 12x9mm, hole diam. 3mm.	11	615

Box XXXV

Cont	SF	Description	Func	Draw	X-ray
4140	SF1073	A pair of tweezers, broken across the loop, and with one arm incomplete. Iron tweezers are much rarer than copper alloy ones, and occur from the Iron Age onwards. Manning and McDonald (1996, 301, no. 60) list a number of parallels. L. 46mm, W. of strip 7mm. Pit 4139, Period VI	2	x	463
4433	SF1202	Narrow strip fragment, slightly tapering, broken both ends. L. 67mm, W. 4-6mm.	20		463
4433	SF1203	Strip fragment with a hooked end. This is possibly a tang from a pruning hook. L. 36mm, W. 24mm.	20		463
5000	SF345	Stylus, Manning type 1a. The point is missing, and the section is square rather than round, as is more normal. L. 100mm. Machining layer	7	x?	463
5159	SF1875	Wire fragment, slightly curved, with a circular section. L. 69mm, diam. 3mm.	20		463
5307	SF2024	Needle, both ends missing, broken across the bottom of the eye. There is a groove below the eye, possibly on one face only. This would have been a fairly small needle. L. 23mm.	3		463
5810	SF5998	Bar fragment. 44x5x4mm.	20		463
8000	SF1454	Possible carpenter's dog fragment. A bar of constant width, broken, and tapering slightly to a 'tang' at right angles. L. 52mm, max. section 7x8mm.	11		465 888
8000	SF1502	Strip fitting, broken. It was probably originally a square U-shape with a flange at each end with a nail through, only one of which survives. It was possibly a handle, although it seems a little small, or it could be a guide bracket for a draw bolt. L.	11	x	465 888

		74mm, strip section 16x5mm. Parallels? Cleaning layer, not phased			
8747	SF6295	Bar fragment, possibly with an L-shaped end. L. 64mm, W. 22mm, th. c 8-12mm.	20		466 889
8785	SF6313	Two plates, one on top of the other, with at least six small perforations in one plate. The edges are somewhat damaged, but one is probably a strip 30mm wide, with a square terminal, and the other is at least 43mm wide and 56mm long. There is mineralised wood on the back; the way that the grain lies suggests that the wood may be associated with the iron. This is therefore probably part of the binding from a wooden vessel.	4		463
8802	SF6923	Tapering bar of constant thickness. One end probably comes to a point; the other apparently bifurcates, with one branch tapering into a small knob, and the other branch probably broken. It somewhat resembles the spike at the bottom of a candle-holder such as Manning P1, but is more delicate, with the broken branch half the maximum width of the bar. L. 64mm, max. W. 11mm, Th. 3mm. Pit 8801, Period VI	20	17	464 889
10071	SF1484	Curved bar fragment, with a square section, probably the loop from a linch pin. External diam. c 60mm, int. diam. c 30mm.	8		464
10978	SF5792	Link from a single-jointed snaffle bit, broken where the link swells into the connecting loop with the side ring. Copper alloy plate on an iron core. Surviving L. 65mm, loop diam. c 23mm. Layer, not phased (LIA with Roman contamination). Palk (1984) classified Iron Age bridle bits according to the materials used in their construction, and this example falls into Category C, all of which are from double-jointed bits, i.e. with two side links and a connecting central link. The central links have their loops in the same plane, whereas the side links (and the links of single-jointed bits) have their loops at right angles, as with this example. Many of the central links from bits of this type exhibit collars similar to the Elms Farm example, but this feature is not normally found on side links. This could possibly be a link from a single-jointed bit, but none of the single-jointed bits illustrated by Palk are comparable. Given the rarity of Iron Age bits, this may simply be a local variant. Palk lists only one other example from Essex, a double-jointed snaffle bit from Walthamstow (Palk 1984, 39, DJ38) which has a collar round the centre link, but not round the side links. Few of the Category C bits are dated, but they appear to have been manufactured over quite a long period of time, between perhaps the mid 3rd century BC and 0 BC (Palk 1984, 80).	8	24	464
11000	SF5670	Hipposandal heel. L. 94mm, W. 74mm.	8		467
11000	SF5672	Handle fragment, distorted and broken. Made from a strip with a concave section, tapering slightly to a looped terminal. Probably a bucket handle. W. of strip 28mm, W. of terminal 23mm.	4		465
11000	SF5673	Ring, external diam. 28mm, int. diam. 18mm.	20		464
11000	SF5674	Part of a handled vessel, probably a small frying pan. The handle was probably socketed, and is probably perforated. Cf Manning 1985, 104, P32-3. The type is typically late Roman. If circular, the diameter would be c 150mm. Ht. of side 27mm. Machining layer	4	1	464 889
11000	SF5994	Strip with a rectangular section, changing to a square section at the point at which it is broken. The other end broadens, and has been formed into a loop, max. W. 14mm. Possibly part of a snaffle bit mouthpiece link; cf Manning H17. L. 51mm, strip section 6x4mm.	8		463

11000	SF5996	Mushroom-headed bolt in good condition. The broken shaft has a circular section. Modern? L. 92mm, head diam. 53mm.	11		468
11000	SF5997	Narrow strip fragment, slightly curved, and broken at both ends. 41x6x4mm.	20		463
11000	SF7236	Bar with square section, stepped at one end. Possibly post-Roman. L. 133mm, section 18x18mm.	20		468
11302	SF6977	Barb-spring padlock spring. The shape is as Manning Type 1 (O68), but with a non-tapering haft. It has a fresh break across the bolt hole. L. 145mm.	111		466
11305	SF6928	Bar fragment with a D-shaped section, slightly concave longitudinal profile. One end expands and is probably broken across a nail hole. L. 41mm, max. W. 31mm.	20		464
11305	SF6929	Bar, apparently complete and very slightly bent. Both ends are pointed. The bar appears to be of constant section, although it is very heavily concreted, and the shape of the section is uncertain. This could be a large awl, although the lack of taper would be unusual. L. 185mm, section 9x9mm.	20		468 1000
11305	SF7223	Rectangular plate fragment, broken on two sides, unperforated.	20		463
11305	SF7224	Curved plate fragment, with one possible original straight edge. It has three perforations in a row, a circular one flanked by two rectangular ones, and is broken across a fourth perforation. This is probably part of a ferrule or socket; SF7226 is probably part of the same object. 62x34mm, rectangular holes 4x3mm, round hole diam. 4mm.	20		463
11305	SF7225	Blade point, possibly part of SF7227, but damaged at the break, and with a clear cutting edge, unlike SF7227. The point is rather rounded. L. 76mm, W. 24mm.	10		465
11305	SF7226	Plate fragment, slightly curved. Probably part of the same object as SF7224. 27x24mm.	20		463
11305	SF7227	Tanged blade with the tang set in line with the ?back of the blade. The end of the tang and the point are missing, and the blade is bent back on itself. There is no clear cutting edge, although V.F. notes that it is much damaged through corrosion. Blade W. 25mm, original L. c 70mm, tang 20x9x3mm.	10		465
11321	SF6978	A small hemispherical bowl with a slight lip on one side, broken but nearly complete. There is no indication of a handle. Diam. 72mm, depth c 30mm. Post-hole 11322, not phased	4	23	465
<p>This is possibly the base of a small covered lamp, similar to the base of a mid 1st century covered lamp from Hod Hill (Manning 1985, 98, P2). The type is rare in Britain, and possibly exclusively early in date. However, the bottom of the nozzle does not appear to be present, and this could be a simple open lamp. However, a very similar bowl from a 1st century context at Caerleon (Zienkiewicz 1993, 116, no 3) was interpreted as having a metallurgical function, as it has what appeared to be vitreous slag on the base. There is no metallurgical debris in the same context as the Elms Farm bowl, although there is a small amount of baked clay probably derived from a kiln.</p>					
11340	SF6982	Latchlifter. The tip of the circular-sectioned blade is bent, and the end missing. The handle is a plate, probably with a suspension loop, now missing. L. 230mm, handle 60x16mm.	111		466
11340	SF7001	Plate fragment, with one edge curved over, broken across three perforations, diams. c 6mm.	20		463
11340	SF7309	Strip fragment, tapering, both ends broken. L. 46mm, W. 12-15mm, Th. 3mm.	20		463
11343	SF6984	Plate fragment with curved edges, of variable width. Possibly a hipposandal wing. c 48x30mm.	8		463
11345	SF6983	Knife, point missing. Straight-backed, with the back in line	10		465

		with the tang. Manning type 11. L. 137mm, max. blade W. 37mm.			
11390	SF6992	Staple or carpenter's dog, with squared top, one arm missing. The tip of the surviving arm is turned at right angles. The top is slightly curved perpendicular to the plane of the object. Top 74x7mm, arm L. 43mm.	11		464 889
13387	SF7310	Strip fragment, tapering, both ends broken. L. 39mm, W. 3-7mm, Th. 4mm.	20		463
13891	SF6465	Woolcomb fragment, with teeth at one end. Not enough survives to ascertain the form, or whether it had inserted side teeth. The width may be complete. Max. surviving tooth L. 53mm, W. 42mm.	3		467 889
14594	SF6240	Tapering strip, very slightly curved across the width, and slightly tapering. One end is squared, the other broken. W. 32-36mm, L. 46mm.	20		463
14706	SF7235	Staple with squared top, made from a strip 5mm wide. W. 55mm, arm L. 37mm.	11		463
14862	SF6270	Half a ring, with fresh breaks. Circular section. External diam. 42mm, internal diam. 32mm.	20		463
15462	SF6658	Strip fragment, curved lengthwise. Possibly complete. L. 68mm, W. 6-8mm.	20		463
15490	SF6649	Three rod fragments, corroded together. It is unclear whether these were originally a single object. Circular section, diam. 3mm. L. 39mm, 32mm and 30mm.	20		464
15515	SF6643	Hipposandal heel. W. 67mm.	8		467
15515	SF6651	Strip fragment, tapering, with a slightly wavy edge. L. 78mm, W. 26-34mm.	20		464
15515	SF6652	Group of nine hobnails, closely spaced, and corroded <i>in situ</i> in mineralised leather. The nails are heavily mineralised, some surviving as impressions only. The edge of the shoe appears to be present, with a small part of the seam. Head diams. \leq 10mm.	1		464
15532	SF6650	Hipposandal heel? The shape is consistent with this identification, although it is thicker than normal, flat, and the 'hook' is straight. Could this be part of a hipposandal discarded during manufacture? W. 68mm, L. 90mm.	8		467
15611	SF6656	Strip fragment, perforated, and probably broken across another perforation; the other end is also possibly broken. 67x19mm, hole diam. 6mm.	20		464
15612	SF6659	Lump, principally slag (V.F.) but containing a strip fragment with a D-shaped section, and two other small fragments of iron.	15		464
15613	SF7239	Chisel. A square sectioned tang and rectangular sectioned blade with a chamfered end. Similar to Manning B30. L. 124mm, W. 13mm. Layer, Period VI	10	21	464
15614	SF7237	Padlock key with the bit missing. It was made from a strip, with the end simply rolled into a loop. L. 81mm, W. 13mm.	111		465 890
15614	SF7238	Strip, tapering, with ancient breaks at both ends (V.F.). L. 73mm, W. 14-16mm.	20		465
15637	SF5993	Straight rod with a circular section, with one end flattened and rolled into an oval sectioned tube at right angles to the bar. The other end has an ancient break, possible cut since it is so straight (V.F.). This is probably part of a bridle bit mouth-piece link. L. 49mm, rod diam. 5mm, tube W. 17mm, section 10x14mm.	8		464 890 1006
15660	SF6664	Bar fragment, slightly tapering. 52x7x \leq 3mm	20		464
16081	SF6924	Bar fragment, surface flaked. 45x12mm.	20		463
16081	SF6925	Sheet fragment with three original edges, perforated. W. 74mm, surviving L. 38mm, square hole, W. 7mm.	20		466
16163	SF5987	Bar? with a damaged T-shaped terminal. This is possibly	20		465

		working waste; the structure appears 'folded'. Bar W. 14mm, head 31x15mm. Foundation trench 16196, Period V			890 1006
16163	SF5988	Heavily concreted lump. Neither X-ray shows any clear structure within the lump, except, possibly, a sheet fragment. Foundation trench 16196, Period V	20		466 890
16163	SF5989	Tanged tool? The incomplete tang is set centrally on a short, oblique-shouldered blade with a ?curved edge. The section is quite thick, with the top of the blade being thicker than the tang. This is probably a spud, although it is rather on the thick side for such an object. L. 87mm, W. of blade 39mm. Foundation trench 16196, Period V	10	10	467 890
16182	SF5991	Awl or punch with an irregular, burred, flat head. The section is rectangular to square, and the tip is twisted. This may be the result of damage in use rather than deliberate (V.F.). L. 96mm, max. section 11x9mm. Robber trench 16197, Period V	10	2	466
16187	SF5990	Bucket handle mount with a large, almost D-shaped, perforation in the rounded terminal, and a nail or bolt through the square end. Layer, Period V-VI	4	x?	466
17000	SF6927	Ring, possibly from harness. Oval section. 38x36mm, internal diam. c 31mm.	20		463
17000	SF6930	Heel, probably from an ox-shoe on the grounds of its width, or less likely, a large horseshoe. It is unfullered, with a calkin and two nail-holes along the edge. Max. W. 38mm. Post-medieval.	12		466
17000	SF6975	L-shaped bar, with one end pointed and the other broken. Possibly a hinge pin. Arm lengths 52mm and 57mm.	20		468
17150	SF7311	Roughly rectangular plate fragment with irregular curved edges. Probably scrap. c 55x34mm.	20		466
18352	SF6473	Bolt? Rod, section uncertain, with a large ?domed head, heavily concreted. The definition on the X-ray is poor, despite the fact that the object is heavy, and should contain good metal. The rod is well defined, whereas the 'head' on the X-ray is a rather amorphous blob. Could this be working waste? L. 130mm, rod W. 11mm, head W. c 52mm.	20		468 4534 4536
20000	SF5992	Scabbard strap slide fragment, of the form illustrated by Stephenson (1999, fig. 29), which is 3rd. century in date. L. 59mm, W. 4-14mm. Cleaning layer, not phased	13	3	464 890
20000	SF6276	Flesh hook, with two curved prongs. The square sectioned bar was probably broken in antiquity, and has no twisted element surviving. L. 134mm, L. of prongs 30mm. Cleaning layer, not phased	4	5	464
20007	SF6279	Tanged knife, complete, with a spear-head shaped blade, edged on one side only. Manning type 16. L. 185mm, max. W. 19mm. Tang L. 85mm. Cleaning layer, Period V-VI	10	22	464

Box XXXVI (Large objects)

5597	SF5137	Rod, very slightly bent. There is a slight thickening 45mm from one end, below which the rod tapers to a point, although the very tip is missing. The other end is broken. The section is circular. Possibly a poker. L 342mm, diam. 6-12mm.	20		4538
11000	SF4695	Bar, with a rectangular section. It tapers almost symmetrically at either end, the taper starting 52mm and 65mm from the ends. Both ends are broken, but it seems likely that the object is almost complete, and would have been pointed either end. The surface is partly flaked. L 402mm, section 19x16mm. (originally numbered SF2672)	20		No X-ray
6126	SF1642	Large drop-hinge. The hinge is a simple U-shape, 275mm long, and made from a strip with a rectangular section, 38x7mm, and slightly rounded ends. Unlike many drop-			4539 4540

hinges, the arms are of equal length. The internal width between the two arms is c. 62mm, indicating that this hinge was from a substantial door. By comparison, the two large strap hinges illustrated by Manning (1985, R8 and R9) both have gaps between the arms of about 35mm, even though one is considerably longer than the Elms Farm hinge. The X-ray was not be located, so it is uncertain how many nail-holes there were. There appear to have been three, possibly four, nail-holes on each arm. **Where is X-ray 4539?** 4540 was returned with other 'lost' X-rays in May 2002, but only appears to have a small part of the object on it.

Box XXXVII

4794	SF7730	Small sheet fragment, with a right-angled corner. c 25x14mm.	20		469
4870	SF7715	Hipposandal wing, type 2, broken. W. 28mm, L. 117mm.	8		470
4899	SF7639	Circular sectioned rod, damaged both ends. Possibly a stylus, although it could be an awl. L. 110mm, diam. c 5mm.	20		469
5610	SF7868	Curved bar fragment L. 72mm, W. 8-13mm, Th. 5mm.	20		470 891
5610	SF7869	Bar fragment, slightly curved. Possibly a nail shaft. L. 54mm, W. 7mm.	20		470
6874	SF7604	Strip fragment, probably with a squared terminal. 44x20mm.	20		470 891
8000	SF7286	L-shaped bar, incomplete. It is quite thick, and the inner edge is possibly curved. This may be part of the socket of a small axe. W. 42mm, L. 27mm.	20		470
8537	SF7720	Blade fragment. L. 49mm, W. 17mm.	10		471
9382	SF7724	Fragment, probably the point of a blade. The section is triangular, although the 'edge' is now rather blunt. L. 45mm, max. W. 24mm.	10		469
9541	SF7725	Probable nail shaft. Pit 9540, Period II B	11		470
10289	SF7638	Probable small chisel with a triangular blade, which V.F. notes is worn. The short tang is possibly incomplete. L. 44mm, blade W. 14mm.	10	20	469
10317	SF7634	Bar, probably a nail shaft. L. 38mm, W. 7mm.	11		470
10509	SF7628	Three joining fragments of a bar, probably broken at one end, and probably perforated at the other. It tapers slightly towards each end. L. 122mm, W. 8-12mm, Th. 3mm.	20		470
10514	SF7660	Sheet fragment, possibly with an edge turned up. Most of the edge appears to be broken. Heavily concreted. c 70x28mm	20		471
10877	SF7652	Bar fragment. L 35mm, W. 10mm. Pit 10910, Period V	20		469
10877	SF7653	Strip fragment, perforated. The hole is keyhole shaped, but seems very small for a keyhole. Can I find a key this small? 26x32mm, hole 7x6mm. Pit 10910, Period V Note box angle bracket from this context	20	18	469
10877	SF7700	Blade fragment with a thickened back, possibly part of a sickle. L. 43mm, W. 23mm. Pit 10910, Period V	10		469
11000	SF7539	Wedge-shaped object, broken at the thicker end. It is possibly an axe or adze head, but the splayed edge is very irregular. It is possibly post-medieval. L. 116mm, section at broken end 35x30mm, max. W. 58mm.	20		4539
11000	SF7544	Strip fragment, with flecks of lead in the corrosion. 31x26mm.	20		469
11133	SF7867	Strip fragment, possibly complete, and possibly with a constriction either side. The surface and section are irregular, due mainly to corrosion. 52x24x22mm. Period II	20		469
12263	SF7888	Strip. One end is rounded, with a large perforation, 11mm in diam., which is unlikely to be simply a nail hole. The strip is now somewhat distorted, but was probably originally flat for most of its length. There is a kink at the broken end, possibly a	11		471

		right-angled bend originally. This is possibly a hasp plate, as has been suggested for a somewhat similar strip from Hod Hill (Manning 1985, 126, R5). 167x23mm.			
13048	SF7646	Small concreted lump, probably entirely corrosion products. \leq 20x20x15mm.	20		469
13225	SF7613	Sheet fragment, with one original straight edge. 40x18mm.	20		469
14711	SF7866	Tapering strip fragment. L. 37mm, W. 7-13mm.	20		469
15668	SF7873	Finger ring, now distorted by corrosion, and sprung at the join. A hoop of variable width, with a small flat oval bezel, with three or four transverse lines on the hoop either side of the shoulders. The form can be paralleled on a white metal ring from a 4th century grave in Colchester (Crummey 1983, 50, no. 1790). Diam. 22mm. Oven construction 15984, Period IV-V	1	25	469
16161	SF7654	Collar, made from a strip of constant thickness, but variable width, which is an unusual feature. Diam. 22mm, W. 12-28mm, Th. 6mm. Post-hole 16162, Period V	11	4	471 891
16333	SF7306a	Strip fragment, with one complete squared end. 49x15mm.	20		469
16333	SF7306b	Tapering strip fragment. L. 29mm, W. 10-19mm.	20		469
19137	SF7605	Strip fragment, with a D-shaped section, perforated, with part of a nail present. Heavily concreted. 77x25mm, Th. 11mm. The nail has been discarded.	20		471
20013	SF7289	Triangular plate, with bevelled edge on one side. Two sides are probably original. Possibly working waste. L. 35mm, W. 31mm, Th. 7mm.	15		469
20039	SF7633	Strip fragment, tapering, and broken both ends. It is covered in mineralised organic fragments, which are not directly related to the object. L. 51mm, W. 7-10mm. Period II	20		469
20147	SF7287	Strip fragment. L. 32mm, W. 6mm.	20		469
20177	SF7302	Plate fragment. One original straight edge. \leq 62x51mm.	20		469
20184	SF7508	Bar fragment, tapering, narrower end broken. Looks like a sprig with a rectangular section, the head very slightly burred. This is possibly a very small punch, although it looks rather delicate for such a use. L. 40mm, max. section 7x4mm. Cleaning layer, not phased	20	16	469
20184	SF7569	Netting needle? Circular sectioned rod with two broken prongs at one end, other end broken. This could possibly be just a loop-headed bar. L. 75mm, rod diam. 5mm, W. across prongs 14mm. Cleaning layer, not phased	20	12	469
20186	SF7487	Stylus with moulded stem, most of eraser and point missing. Bent. L. 100mm. Spread, not phased	7	19	469
20210	SF7870a	Small rectangular plate, possibly complete. 33x18mm.	20		469
20210	SF7870b	Fragment from the tip of a parallel sided blade with a rather abrupt point, with a broken? tang at right-angles to the point. This is possibly part of a currier's slicker. Cf Manning 1985, 39, E1-2 for two Late Iron Age examples. L. 37mm, W. 20mm.	10		469
20303	SF7516	Awl, tapering either end, with a rounded? tip, other end broken. Comparable to Manning 1985, E14, although the Elms Farm example appears to have a rectangular section rather than the more usual square section. L. 128mm, max. W. 11mm Layer, Period II C	10	8	470
20315	SF7517	Tapering strip, probably broken both ends. L. 37mm, W. 7-11mm. Period II	20		469
20330	SF7637	Small block, possibly working waste. L. 36mm, W. 11-17mm, Th. 13mm.	15		470
20752	SF7630	Block, in poor condition. Probably originally triangular and possibly tapering. Working waste? L. 34mm, W. 28mm, max. surviving Th. 15mm.	15		469
21615	SF7655	Narrow bar with a rectangular section, bent. One end is probably broken, and the other has a rounded tip, possibly even	10	15	470

		spoon-shaped. This is almost certainly a tool tip, possibly a metal-working tool such as a tracer (Manning 1985, 11, A33), or the tip of a drill bit (<i>ibid.</i> 26, B53), or even a bradawl (<i>ibid.</i> 28, B77). L. 92mm, section 4x3mm. Cleaning layer, Period III B			
21615	SF7656	Triangular plate fragment, similar to that from 20013 (SF7289). Possibly working waste. L. 34mm, W. 30mm, Th. c 4mm. Cleaning layer, Period III B	15		469
21615	SF7658	Strip, with an oval, perforated, terminal. Box fitting. L. 92mm, W. 11mm, terminal 23x29mm, hole diam. 5mm. Cleaning layer, Period III B	11		470
21615	SF7659	Bar fragment, possibly a nail shaft, but very corroded. L. 46mm, max. W. 10mm. Cleaning layer, Period III B	20		470
21615	SF7672	Wall hook; complete example with a U-shaped hook without a terminal knob. The spike is bent, which may be why it was discarded. L. 113mm, W. 45mm. Cleaning layer, Period III B	11	14	470
21619	SF7728	Bar with a looped end, possibly a ring-headed spike with the point missing. L. 59mm, loop diam. 19mm, square? sectioned, W. 4mm.	20		471
21723	SF7680	Irregular lump, possibly working waste. c 26x21x14mm.	15		471 891
21955	SF7692	Strip with one squared end. Perforated, broken across a second perforation. 127x25mm, perforation diam. 6mm.	20		471
21973	SF7664	Small irregular plate fragment. c 15x15mm. Period II A	20		471
22051	SF7751	Small tanged knife, point and end of tang missing. It has a straight back and a curved cutting edge, with the tang set centrally. L. 62mm, max. W. 16mm. The complete blade would have been c 74mm long. Well 22210, Period V-VI	10	9	471
23001	SF7662	Circular sectioned rod, probably complete, with a knob head, with a slight constriction immediately below it.. The other end is slightly flattened. It appears to taper slightly, but this is probably an effect due to corrosion. A bolt? or possibly a linch pin? L. 95mm, head diam. 21mm. Cleaning layer, not phased	20	11	471
24003	SF7798	Tapering strip fragment, slightly curved lengthwise, with a 'tang' at one end. It is possibly an unfinished knife blade. The section is rectangular, with no edge. L. 102mm, W. 14mm, tang 24x6x3mm. Pit 24004, Period VI	15	13	471

Box XXXVIII

5687	SF7361	Bar fragment with a curved end, both ends broken. Possibly part of a key handle with the bit missing. Rectangular section, 6x2mm, L. 48mm.	20		472
5810	SF5999	Small sheet fragment with one straight edge. 12x9mm.	20		472
5810	SF6000	Strip fragment, slightly tapering, one end broken, the other slightly rounded. Cf SF7275, same context. L. 37mm, section 7x2mm.	20		472
5810	SF7275	Strip, apparently complete, ends slightly rounded. Curved. Could this be an unfinished buckle pin? L. 60mm, section 4x2mm.	20		472
7358	SF7432	Bar fragment, tapering, and slightly kinked in the middle. Possibly complete, with one rounded end. L. 59mm, section 7x4mm. LIA context.	20		472
8638	SF6130	A probable small punch with an oval or rectangular section, and a slightly burred head. L. 50mm, max. section 10x7mm.	10		473 892
8638	SF6133	Strip fragment, complete as buried. One end is square, the other was probably a flattened terminal, broken in antiquity across a perforation. There are two small rivets set in line down the centre towards this end. 70x17mm.	20		473

8993	SF6003	Bar fragment, complete as buried. 27x11x \leq 3mm.	20		472
11000	SF7288	Large flat-topped staple. It is narrow in relation to its length. Rectangular sectioned throughout, and in fairly good condition. One arm has a fresh break, the other has flaked somewhat. L. 215mm, W. 85mm, section of top 25x13mm.	11		4536
11000	SF7663	Unidentified object, apparently complete. It comprises a rectangular plate with a plano-convex section. One end has a relatively small keyhole-shaped perforation. The other end has rounded shoulders, with a short, tapering rod set centrally in the same plane. The rod is complete as buried, and probably complete. Possibly modern? Overall L. 137mm, plate 104x39x8mm.	20		1007
11340	SF6120	Fragment, probably a rather blunt knife point, broken at the other end. L. 26mm, max. W. 7mm.	10		472
11340	SF6126	Bar fragment, L-shaped, with both arms broken. The longer arm is L. 55mm, section 16x7mm; the shorter arm is wider, L. 26mm, section 25x8mm.	20		474 892
11487	SF7007	Knife with a scale tang set centrally, with very decayed organic matter on the handle and blade. There is a rivet through the tang, in totally corroded grey-green metal, probably copper alloy (VF). L. 151mm, blade W. 20mm. Pit 11785, Period II	10	68	474
11701	SF6128	Bar fragment, both ends broken. One end is slightly bent. 65x6x2mm.	20		472
11765	SF7335	Bar fragment with rectangular section, both ends broken. One end is probably looped over. 26x10x4mm.	20		472
13679	SF6018	Plate fragment, most of edge broken. \leq 35x38mm. LIA context.	20		472
14008	SF7362	Small fragment of chain mail in very good condition, comprising parts of five small links, none complete, made from wire 1.5mm diam. The original diam. of the links was \leq 7mm. The links are now squashed together. Not X-rayed. The reason for the exceptionally good state of preservation is not immediately obvious. Pit 14007, Period II	13	69	-
15046	SF7411	Small bar fragment, probably complete as buried. 74x18mm, th. unknown.	20		472
15290	SF6667	Large, roughly rectangular block with irregular edges, complete as buried. Working waste. \leq 87x50x30mm. Pit 15573, Period II-II	15		366
15290	SF6668	Chisel or wedge. The edge is slightly splayed and somewhat blunt. The top is burred on three sides. L. 108mm, section \leq 33x22mm. Pit 15573, Period II-II	10	x	367
15420	SF7413	Tool? with a two piece wooden handle with an oval section. It is not clear how the wood is attached, as there are no signs of rivets. The object is a flat bar of constant width, narrowing at the tip to a blunt point. This end may not be complete. The other end is flattened, and probably protrudes beyond the end of the handle. This could be a double-ended tool, with a punch at one end, and a chisel-like blade at the other. In the absence of rivets, the handle may have been held in place by bands of metal, or was possibly bound with twine. L. 176mm, max. W. 17mm. Wood ID to come. Pit 15417, Period II	10	x	475
15574	SF6673	Ring, surface flaked. Oval? section. External diam. 73mm, internal diam. 60mm.	20		474
15612	SF6119	Rod, with a circular section and a slightly flared, flattened terminal, other end broken. This is probably a simple tool of the type described at Danebury as a chisel made from a small iron rod (Sellwood 1984, 354, nos. 2.60-2.62). L. 34mm, blade W. 6mm. LIA context. Pit 15641, Period II-III	10	x	472
15771	SF7414	Lump, with a very mineralised iron fragment in it, possibly a nail shaft.	20		472

15787	SF7417	Needle. Point missing, broken across the bottom of the eye. Slightly bent. L. 64mm	3		472
15810	SF7418	Strip fragment with a nail through it. The strip possibly has a rounded terminal (the X-ray is very faint). Probably complete as buried. 61x26mm.	20		474
15816	SF6145	Flat-topped staple. It was made from a strip \leq 9mm wide and 3mm thick, tapering abruptly at each end. L. 32mm, W. 23mm. LIA context.	11	196	472
15857	SF7419	Tanged trowel, blade incomplete. The blade was probably a narrow leaf-shape (Manning type IV; Manning 1976, 27), and would probably have been used for fine plasterwork. The vertical between the blade and tang is broad, being a simple continuation of the blade bent at right angles. Pit 15856, Period IV-V	10	x	475 892
15881	SF7428	Irregularly shaped plate fragment, damaged. Probably working waste. \leq 58x25mm. LIA context	15?		472
16230	SF6118	Knife blade fragment, with a straight back and a rather rounded tip. L. 94mm, W. 16mm.	10		473
16230	SF7184	Curved bar fragment with a tapering square section. The wider end is roughly diamond-shaped in plan; it is unclear whether it is complete. This may be an unfinished object, perhaps a blank for a large triangular-headed nail, or even a bucket handle. L. 180mm, max. section 12x12mm, terminal W. 20mm.	15?		475 893
16280	SF6017	Strip with a D-shaped section, broken in antiquity across a perforation, the other end recently broken. Slightly tapering. 117x12x4mm, perforation diam. 4mm	20		475
17242	SF6125	Tapering strip, curved at the wider end. The other end has a circular terminal at right angles to the strip, with a large circular perforation. Probably a strap handle, probably post-Roman (metal detector find). L. 85mm, max. W. 33mm	11		473 892
18689	SF7276	Strip fragment, curved slightly at one end, slightly tapering, complete as buried. Working waste? L. 53mm, W. 18-22mm, th. 2mm.	15?		472
19048	SF7376	Iron sheet, formed into a channel of variable section but constant width. It fragmented after being X-rayed. The length appears to be complete as buried, but there is ancient damage, and it was probably originally longer. The section varies from almost V-shaped at one end, with a narrow, flat base, to a more truncated V at the other, with a wider base. L. 173mm, W. 43mm, ht. \leq 42mm.	20		368 374 476
19073	SF7378	Strip fragment, probably complete as buried. 75x18mm.	20		473
19150	SF7384	Bar with a variable section, broken at both ends. One end at least had a flattened terminal. Probably a horse-bit link. L. 65mm.	8		473 892
20016	SF7341	Bar with a variable rectangular section with two steps towards one end. The other end is burred. This is probably a punch. L. 117mm, max. section 12x6mm. Cleaning layer, not phased	10	x	472
20025	SF7343	Plate fragment, with a D-shaped section, probably with a squared end, and broken across a perforation. 48x29mm.	20		472
20036	SF7347	A plate with irregular edges; one side is flat, and the other has a rib down the middle. There are possible cuts in one edge. On the X-ray, the structure of the metal appears vesicular in places. Working waste? . 78mm, max. W. 35mm.	15?		473
20041	SF6129	Strip, slightly bent, with one end bevelled in both planes, forming an asymmetrical blunt point. L. 65mm, section 5x3mm. LIA context	20		472 893
20041	SF6143	See SF6144	-		-
20041	SF6144	(and SF6143) Strip fragment in two pieces, very badly corroded and covered in mineralised organic material. \leq 52x25mm. LIA context	20		473

20041	SF7352	Strip fragment with an irregular outline. One end is pointed, probably due to the way it broke in antiquity. Covered in mineralised organic matter. \leq 52x25. LIA context	20		472
20060	SF7348	L-shaped strap with a nail through the angle. One arm is definitely broken off very short, the other becomes thicker towards the end. L. 62mm, max. section 16x8mm. Pit 20066, Period III	20		473 893
20063	SF6139	Saw blade fragment, joins SF7349 (old break).	10		472
20063	SF7349/ 6139	Hand saw fragment, in two joining pieces, SF6139 and SF7349; broken in antiquity. It has rather irregular teeth, which are not set, with 2.5 teeth to 2cm. The handle has a low flange along each edge. There are no definite nail holes, but the metal is very mineralised and patchy on the X-ray. L. 144mm, W. 53mm. Pit 20066, Period III	10	x	474 892 1007
20139	SF7357	Irregular plate, fissured round the edges. Probably working waste. \leq 45x34x4mm.	15?		472
20148	SF7431	Squared corner from a plate, recent break. \leq 24x20mm.	20		472
20176	SF7359	Latchlifter, complete. It has a narrow strip handle with a penannular? looped end, and a rod blade. The tip of the blade is angled up, as SF1930. L. 269mm, W. of handle c. 13mm, th. 6mm, diam. of blade 6mm. Pit 20174, Period III	111		474

Box XXXIX

Cont	SF	Description	Func.		X-ray
3999	SF8126	Plate fragment, irregular edges. Working waste? \leq 37x23mm.	15?		478
3999	SF8128	Incomplete spoon handle, made from a twisted bar, with a small part of the bowl. Similar to Manning 1985, 104, P34. Surviving L. of handle 50mm, bowl W. >50mm.	4		477
4000	SF8213	Small simple chisel, as Manning 1985, B43/44. L. 62mm, blade W. 12mm.	10		477
4844	SF8039	Knife blade fragment, complete as buried (V.F.), but with both ends missing. Parallel sided blade with a scale tang. Blade L. 38mm, W. 20mm. Tang L. 18mm, W. 9mm.	10		477
5210	SF8219	Strip, pointed at one end, and broken at the other, with a rectangular section. Slightly curved. This ostensibly looks like a knife point, but apparently has no edge. It is possible that it is a blade with a scale tang, as the section was not investigated near the point, but there is no visible 'break' between a blade and tang visible on the X-ray. L. 115mm, W. 10-12mm, Th. 3mm.	20		478
5210	SF8220	A thin strip of iron (possibly two thin strips sandwiched together), curved into part of a U-shape. There is a possible nail corroded onto one end, probably not an integral part of the object. This is possibly part of a latchlifter. It is unusual for the blade of a latchlifter to be this wide, but there is a slightly wider one illustrated by Manning (1985, pl. 38, O12). However, it is very similar to 13216, SF5106, which is more likely to be part of a joiner's dog. There are flecks of lead in the corrosion. W. 13mm, L. 55mm.	20		479 894
5214	SF8215	Cleat; an oval plate with one short clenched tang, the other tang broken. Although this is rather on the large side for a boot cleat, the short clenched tang suggests that it was attached to leather, so it is probably from a boot. 56x15mm, tang L. \leq 14mm. Pit 5209, Period V-VI	1	58	477
5300	SF8217	Blade fragment, possibly with a slightly reinforced back. L. 47mm, W. 224mm.	10		477
5300	SF8218	Strip fragment, broken across a bend. 61x26mm.	20		478
5472	SF4763	Plate fragment, possibly perforated, with one original straight edge. 22x22mm.	20		477

5511	SF8167	Strip fragment, tapering. L. 54mm, W. 14-20mm.	20		477
5511	SF8168	Eight heavily concreted small lumps, including four probable nail fragments and a probable hobnail. The rest are too mineralised to be identifiable.	20		479
5864	SF3353	Latch lifter, in four pieces. The blade is a circular sectioned rod, with a flat handle with a rectangular section and a broken end loop. L. \leq 330mm, handle 65x19x5mm. Pit 5805, Period V-VI	21	26	480
5597	SF5133	A pair of shears, in three pieces. The basic shape is not unusual for Roman shears, although the handle on this example is unusually short. L. 182mm, handle L. 48mm.	10	132	478
		N.B. Within Box XXIX in separate small box			
6000	SF8159	Strip fragment, possibly part of a blade, as it may be thicker on one edge. 55x27mm.	20		479
6000	SF8160	Strip fragment. \leq 30x30mm.	20		477
6000	SF8161	Sheet fragment with one straight edge. 20x20mm.	20		477
6001	SF7860	Fragment from the heel of a shoe sole (the edge is curved), with hobnail impressions in mineralised leather. There is a close-set row of four along the edge, and one inside this. Head diams \leq 9mm.	1		477
6142	SF7858	Bar fragment, both ends broken and edges irregular. The profile was probably stepped. 55x24x \leq 3mm.	20		478
9293	SF7785	A small triangular bar of constant thickness, possibly complete. The narrower end may be burred. Working waste? L. 31mm, W. 6-24mm, Th. 7mm.	15?		479
10028	SF8187	Probably an oval terminal from a bar with a D-shaped section. There are lead flecks in the corrosion. \leq 39x32mm.	20		480
10255	SF8053	Fragment, possibly the point from a straight-backed blade. 52x28mm.	10?		480
10891	SF7000	Bar fragment with D-shaped section; variable width, edge fissured. Working waste? L. 65mm, W. 19-23mm, Th. 11mm.	15?		480
10897	SF7021	A small bucket handle mount, broken across the lower hole. The loop has a D-shaped perforation, and the metal is thicker at this end. For the general shape see Wickenden 1992, 82 and fig. 42.5. L. 38mm, W. 30mm, hole diam. 18mm. Pit 10953, Period IV	4	28	480
11305	SF8059	Sheet fragment, all edges broken. \leq 20x23mm.	20		477
11306	SF8057	Two sheet fragments corroded together, both ends broken, possibly a broken sheet buckle plate. There is a gap between the sheets of \leq 1.5mm, and no obvious perforations. 35x16mm. Period II-III	1?		477 895
11720	SF8058	Lump, irregular and fissured. Working waste? \leq 28x20x16mm. Period II	15?		479
14093	SF8091	Amorphous lump; working waste. \leq 50x35x25mm.	15		480
14503	SF6247	Object, consisting of a curved rod with a circular section, broken at one end. The other end is bent at \leq 135°, and is flattened into a truncated leaf-shaped plate. This plate appears to be complete, but may have been cut. This may be an incomplete and distorted latch-lifter (which seems most likely), or, if the flat end is complete, it could be some sort of tool. L. 230mm, plate 32x21mm.	20	185	478 894
15862	SF7939	Ring with circular section, slightly oval. 43x38mm, section diam. 6mm.	20		479
16073	SF8165	Strip fragment, slightly tapering. L. 60mm, W. 17-23mm.	20		479
16073	SF8166	Strip fragment, broken at both ends. 43x17mm.	20		479
20147	SF8055	Strip fragment, broken at both ends. The edges are turned up slightly. Possibly part of a rectangular padlock case. 60x37mm.	21?		479
21568	SF8045	Stud, with flat rectangular head with rounded corners, and short shank, probably broken. 20x24mm, shank L. 12mm.	11		478

21574	SF4828	Lump, possibly working waste. $\leq 32 \times 20 \times 14$ mm. Period IIA	15?		479
22313	SF8038	Small lump, very badly corroded. This could possibly be a saw fragment, as the edge is possibly notched, but this is very uncertain. $\leq 23 \times 18$ mm. Period IIB	20		477
22354	SF8043	Plate fragment, now D-shaped, but possibly originally a right-angled corner. 30×22 mm. Period II	20		477
23002	SF7837	Knife fragment; three joining fragments of a straight-backed, almost parallel sided blade with a scale tang, broken at both ends. Blade L. 65mm, W. 13mm; tang L. 25mm, W. 8mm. Cleaning layer, not phased	10		477
23002	SF7889	Strip fragment, broken both ends. $49 \times 28 \times 2$ mm. Cleaning layer, not phased	20		477
23002	SF8029	Drop handle, loops missing. Rectangular section, 10×7 mm. W. 116mm. Cleaning layer, not phased	11	57	479
23022	SF7833	Strip fragment with a square end, broken across a large circular or oval perforation. Possibly a fragment from a bucket handle mount. 27×20 mm, hole diam. 23mm.	20		477
23025	SF7834	Strip fragment with a square perforation. 48×38 mm, hole W. 6mm.	20		480
23033	SF7894	Punch or chisel, with a broad blade of constant width and rectangular section, and a burred head. Probably a smith's punch. L 65mm, section 16×10 mm.	10		480 895
23091	SF7846	Ring, with circular section. It is now penannular, and has either sprung at the join, or was originally coiled. If the latter, it may have been part of a coiled ferrule. Diam. 23mm, section diam. 4mm.	20		477
23155	SF8051	Bar of constant width with a wedge point. The other end is broken, apparently across a thin loop, wider than the bar. The bar itself appears to be complete. L. 58mm, max. section 14×6 mm.	20		479 895
23211	SF8052	Double-spiked loop, points bent and damaged. L 75mm, external diam. of loop 28mm, internal diam. 15mm.	11		479
24003	SF8074	Tapering bar of constant thickness, probably complete. Working waste?	15?		477
24058	SF7780	Perforated strip fragment, broken both ends. Square perforation, 6×6 mm. L. 45mm, W. 20mm.	20		477
24058	SF7808	Key handle; rectangular plate with slight shoulders onto a circular sectioned tang, bit missing. The hole in the handle is unusual, as it is oval rather than round. L 73mm, handle 38×25 mm, hole 12×4 mm.	21		478
24058	SF7810	Perforated plate; there are a number of notches or splits in the edges, which are irregular. It is difficult telling from the X-ray which are original edges. The hole is square, 11×11 mm. $\leq 97 \times 52$ mm	20		478
24071	SF8028	Punch? A tapering bar with a rectangular section, possibly changing to a circular section near the point. L 74mm, max. section 10×6 mm. Period II-III	10		478 895
24080	SF8188	Narrow strip fragment, both ends broken. 76×6 mm.	20		477
24100	SF7816	Plate fragment with one circular perforation, diam. 3mm, broken across the edge of a second square hole. Edge broken, original shape uncertain. $\leq 43 \times 38$ mm.	20		477 895
24221	SF7967	Probably a strip 40mm wide, with a squared end, other end broken. There is a perforation roughly in the middle of each long side, and the edges are possibly notched close to each hole. L 57mm, hole diam. 3mm.	20		477 895
24243	SF7933	One arm of a box angle-bracket, comprising a narrow strip with a D-shaped section and a flame-shaped terminal, with a nail through it. The nail probably has a domed head. A rather delicate bracket, probably from a casket. L. 90mm, W. 6mm, W. of terminal 18mm. Layer, Period III	11	29	477

24317	SF8032	Triangular plate, with irregular edges, possibly working waste. $\leq 48 \times 45 \text{mm}$.	15?		478
24398	SF7859	Bar fragment, broken both ends. One end appears to be twisted, possibly as a result of the bar having been deliberately broken rather than being part of an object. Working waste? L. 60mm, section $14 \times 10 \text{mm}$.	15?		479 894
24398	SF7959	Lozenge-shaped plate fragment, broken across 'tangs' at both ends. One 'tang' has a rectangular section $11 \times 2 \text{mm}$, and appears to be bent backwards, parallel to the plate. The other 'tang' is $8 \times 5 \text{mm}$. Possibly a cleat, although the 'tangs' seem the wrong shape for this. $55 \times 35 \text{mm}$.	20		479
24398	SF8086	Bar fragment, Z-shaped, broken both ends. The section is probably oval. L. 55mm.	20		480
24398	SF8087	Bar fragment, both ends broken, damaged. It is possibly thicker in the middle, may have a variable section, and could be a tool such as a drill bit or chisel. L. 100mm, section $\leq 10 \times 8$.	20		478

'Box XL' Not Boxed (Oversize)

14493	SF7012	Bar with a D-shaped section, unperforated. It probably tapers at one end, but has flaked, and the other end may also be broken. L. 510mm, W. 34mm, Th. 16mm. Hearth construction 14491, Period III	20	x	P365
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As this is from a 'hearth construction', **Check nature of context** this may be something to do with the hearth, such as a fire bar.

Box XLI Objects not worth X-raying, from the bulk nails

15355	Wire fragment, L. 23mm.	20
20690	Small unidentifiable fragment.	20

Box XLII Objects not worth X-raying, from the bulk nails

20690	Small fragment, probably not a nail.	20
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Box XLIII Iron objects from Soil Samples

12197 SF8295 transferred to box XLV (Crem 12203)
X-ray P357 is with Box XVIII

Cont.	ss			Func	D	X-ray
4164	607	SF8235	Small lump. $\leq 12 \times 10 \times 4 \text{mm}$.	20		350
4167	609	SF8236	Strip fragment. $16 \times 8 \text{mm}$.	20		350
4434	630	SF8238	Socket fragment, now somewhat distorted, together with two small fragments, one definitely and one probably from the socket. One piece has a nail through it. L. 36mm, max. diam. $\leq 14 \text{mm}$.	20		349
4481	633	SF8239	Two plate fragments, probably from the same object, but not now joining. The larger piece is $\leq 14 \times 14 \times 4 \text{mm}$.	20		350
4497	638	SF8240	Plate fragment in good condition. $13 \times 8 \times 2 \text{mm}$.	20		353
4584	777	SF8241	Object, complete as buried. It resembles a tanged knife blade with a straight back, and most of the blade missing. The thickness is constant, and what would have been the cutting edge is bent at right angles. It is probably the side wing from a hipposandal, although it is unusually thick. L.	8		349

			75mm, max. W. 28mm, th. 5mm.		
4686	663	SF8242	Two small sheet fragments. The larger is \varnothing 13x8mm	20	350
4686	663	SF8242	Two small lumps.	20	350
4688	664	SF8243	Lump of working waste. \varnothing 15x11x9mm.	15	350
4699	ss655	SF8244	Very small sheet eyelet. It was sent for X-ray, but wasn't in the bag when it came back, and didn't come out on the X-ray. External diam 15mm.	20	
4767	659	SF8245	One very small piece of slag; one piece of ?hammer scale. Discarded	15	350
4839	685	SF8246	Small lump of working waste; triangular fragment, probably working waste/ 22x15x4mm.	15	350
4860	688	SF8247	Sheet fragment, irregular. Complete as buried. \varnothing 19x10mm.	20	350
4869	629	SF8248	Sheet fragment, \varnothing 32x32mm.	20	349
4869	629	SF8248	Strip fragment, complete as buried. 24x13mm.	20	349
4909	713	SF8249	Strip, complete as buried. 47x18mm.	20	349
4937	706	SF8250	Small fragment of chain mail, in very good condition. There are parts of three interlinked rows, a total of seven links, although only one is complete. The complete link is circular, diam. 6mm.	13	350
4937	706	SF8250	Four strip fragments. 19x5mm; 20x7mm; 41x10mm; 19x7mm.	20	350
4937	706	SF8250	Sheet fragment. 17x13mm.	20	350
4937	706	SF8250	Three small lumps.	20	350
4963	700	SF8251	Sheet fragment, edges broken in antiquity. Part of a rivet hole is present. 17x19mm	20	350
5217	903	SF8252	Strip fragment with a fresh break at one end and one square perforation. 32x13x1.5mm.	20	350
5376	916	SF8253	Rectangular plate fragment. It is uncertain which edges are original. A small globule of lead is corroded on. 40x23x1.5mm.	20	350
5683	934	SF8254	Bar fragment, tapering to a rounded end. L. 26mm, max. W. 9mm.	20	350
5735	940	SF8255	Very small lump.	20	350
5775	944	SF8256	S-hook, with a closed loop at one end, and the other end almost closed. The terminal at the open end is scrolled, and the other end may also be scrolled. L. 48mm. Layer, Period III B	11	x 350
5964	996	SF8257	Ox goad. Rees type I (coiled), probably with two coils. The point is missing. L. \varnothing 32mm, diam. 18mm.	12	352
6522	2121	SF8262	Strip fragment. 12x8mm.	20	350
6790	2148	SF8263	Two very small fragments.	20	350
7071	1208	SF8264	Irregular, spongy lump of working waste. \varnothing 32x23mm.	15	350
7190	1212	SF8266	Sheet fragment. Irregular, complete as buried. \varnothing 45x40mm.	20	349
8094	1812	SF8267	Concreted lump. A natural concretion, with no metal present. Discarded.		349
8107	1814	SF8268	Two sheet fragments. The larger one is \varnothing 15x15mm.	20	352
8107	1814	SF8268	Bar fragment. 14x9x6mm.	20	352
8153	1820	SF8270	Blade fragment. L. 25mm, W. 20mm.	10	352
8153	1820	SF8270	Ox goad, complete. Rees type II. Diam. 15mm, L. 23mm.	12	352
8214	1852	SF8271	Strip fragment with a rounded terminal. L. 18mm, W. 14mm.	20	352
8214	1852	SF8271	Five small lumps.	20	352

9048	303	SF8274	Lump, c 15x12x?mm	20	352
9241	366	SF8277	Possible sheet fragment. The X-ray is faint. c 22x10mm.	20	352
9312	378	SF8279	Very small fragment	20	352
9321	388	SF8280	Irregular block, complete as buried. 21x19x6mm.	20	350
9448	399	SF8282	Sheet fragment. 15x11mm.	20	352
9459	403	SF8281	Six very small fragments.	20	352
9527	407	SF8283	Irregular fragment, probably two small strip fragments corroded together. c 20x18mm.	20	352
9610	417	SF8284	Ferruginous concretion with no metal present. Discarded		350
9660	418	SF8285	Sheet fragment, c 25x11mm.	20	352
10291	1521	SF8286	Sliver of iron, from a right angled corner, in very good condition. 18x5x1.5mm.	20	352
10534	1537	SF8287	Two sheet fragments. One is square, and complete as buried, with a perforation set close to the edge. It broke in antiquity across a second hole. 19x19mm, hole diam. 2mm. The second piece is irregular, with a single perforation, diam. 3mm. 30x19mm.	20	352
10649	1542	SF8288	Two joining fragments from a strip with a rounded terminal. L. 37mm, W. 20mm.	20	352
11061	1611	SF8289	Two lumps. The larger is c 17x8x7mm.	20	352
11263	1621	SF8290	Fragment of slag.	15	349
11263	1621	SF8290	Five small blocks, the largest c 24x18x12mm.	20	349
11294	1622	SF8291	Strip fragment. 23x8mm.	20	350
11436	1642	SF8292	Chain fragment, possibly from personal adornment. It is very faint on the X-ray, and bunched up, but appears to be alternate oval and circular links. There are at least nine links present. Oval links c 7x4mm, circular links diam. 4mm.	20	350
11488	1653	SF8294	Sheet fragment, in very good condition. 12x9mm.	20	350
13721	1046	SF8297	Strip fragment, complete as buried. 22x6mm.	20	352
13725	1050	SF8298	Blade fragment, in two pieces. 78x28mm.	10	353
13725	1050	SF8298	Strip fragment of uncertain length, corroded onto the blade fragment from this context. It has a rounded terminal with the remains of a rivet through it. W. 12mm.	20	353
14067	728	SF8299	Small lump, possibly a hobnail head. c 9x9x4mm.	20	352
14204	732	SF8300	Four small sheet fragments. The largest is c 20x10mm.	20	353
14407	745	SF8302	Small lump of baked clay covered in a natural ferruginous concretion. Discarded		352
14564	758	SF8303	Three sheet fragments. The largest has one straight edge and is c 20x11x3mm.	20	353
15056	444	SF8304	Concreted lump. The X-ray is not completely clear, but the lump probably contains a small curved bar fragment (probably not a nail shaft), a second smaller bar fragment, and a nail shaft. The larger bar fragment is c 30x12mm.	20	353
15288	475	SF8306	Twenty-six pieces, in poor condition, with much of it flaked. There is one possible nail head, and some of the other fragments may be nail shafts. The edges of most of the fragments are poorly defined on the X-ray. The group mainly consists of rectangular blocks (n.b. there is no other iron from this context).		355
15288	475	SF8306	Possible punch. Tapering circular-sectioned bar with a blunt point and a rounded head. L. 62mm, max. diam. 17mm.	10	355

15288	475	SF8306	Seven rectangular blocks, two of them corroded together; probably working waste. 77x55x12; 60x36x7mm; 61x30x8mm; 70x29x5mm; 53x20x5mm; 31x26x9mm; 23x17x4mm.	15		355
15288	475	SF8306	Eighteen fragments, many flaked off the other objects under this small find number.	20		355
15307	477	SF8307	Four joining fragments of a rod with a circular section. One end tapers slightly, and was broken in antiquity; the other end has a fresh break. L. 200mm, diam. 7mm.	20		353
15307	477	SF8307	Bar fragment. One end is squared, and complete, the other has a fresh break. 37x10x5mm.	20		353
15308	478	SF8308	Terminal from an object, or strapping. It comprises a lenticular strip narrowing into a rectangular sectioned rod at one end. The other end has an oval terminal, with a central hole. L. 85mm, max. W. 29mm, hole diam. 4mm. Pit 15309, Period II-III	20	x	354/7
15308	478	SF8308	241 small, broken fragments; nine other pieces have been catalogued separately. Pit 15309, Period II-III	20		354/7
15308	478	SF8308	Tapering strip. The wider end is squared (probably cut), and complete as buried. The other end has a fresh break. L. 49mm, W. 9-19mm. Pit 15309, Period II-III	20		354/7
15308	478	SF8308	Four blocks. The largest is c 43x26x7mm. Pit 15309, Period II-III	20		354/7
15308	478	SF8308	Three roughly triangular plate fragments. The largest is c 32x10mm. Pit 15309, Period II-III	20		354/7
15420	506	SF8309	Irregular lump of working waste. c 30x35x16mm.	15		353
15459	503	SF8310	Irregular lump, very diffuse on the X-ray, and probably entirely corrosion products. c 20x14x8mm.	20		352
15463	504	SF8311	Four small strip fragments, probably from two different strips. Three of the pieces have fresh breaks, but none join. 12x7x2.5mm; 8x7x2.5mm; 13x7x1.5mm; 10x6x1.5mm.	20		353
15611	509	SF8312	Four sheet fragments. The largest is 12x12mm.	20		353
16136	2187	SF8314	Strip, in two joining pieces. The shape resembles a tanged knife, with a straight back. The tip of the 'blade' has a fresh break. The strip is, however, uniformly very thin, and lacks an edge, so it is unlikely that this was a knife, or even a blank for a knife. L. 58mm, W. 14-18mm.	20		352
16270	2197	SF8315	A small fragment from a saw blade, with four teeth present, probably not set. The teeth are symmetrical, which Manning (1985, 21) suggests marks it as a bow saw. L. 18mm, W. 21mm.	10		354
17229	2441	SF8316	Small lump, c 12x5mm.	20		352
17323	2448	SF8317	Twelve small sheet fragments. The largest is 12x10mm.	20		353
17352	2450	SF8318	Eight sheet fragments. The largest is c 19x20mm.	20		353
17352	2450	SF8318	Bar fragment. 11x7x4mm.	20		353
18854	1107	SF8319	Lump. c 10x7x4mm.	20		353
20196	899	SF8320	Strip fragment. 17x10mm.	20		353
21502	1110	SF8321	Strip fragment, tapering. L. 27mm, W. 10-5mm; a second, very small strip fragment, possibly the tip of the other piece.	20		353

Box XLIV Objects with the nails from soil samples, not selected for X-ray

Context	B.S.		
4129	603	Six small lumps.	20
4129	613	Bar fragment, possibly working waste, or a nail shaft	20
4869	629	Small fragment, probably a strip c 12x3x1mm.	20
4875	692	Small lump, possibly slag.	20
4875	692	Five fragments of strip, possibly with a variable section. Largest c 4x1mm.	20
5237	911	Two <i>very</i> small fragments.	20
5327	906	Very small fragment.	20
9039	311	Two very small fragments.	20
9071	310	Wire fragment. L. 12mm, diam. 1mm.	20
9446	401	Strange little conical fragment with a slaggy surface. Working waste?	15
9545	416	L-shaped fragment with a square to rectangular section.	20
10071	1508	Wire fragment, possibly a needle or brooch pin. L. 10mm, diam. 1mm.	20
10296	1522	Small strip fragment. 9x4x2mm.	20
10310	1524	Plate fragment. c 12x8mm.	20
10750	1547	Small strip fragment. 11x4x2mm.	20
14093	730	Small strip fragment. 20x3x1mm.	20
14564	775	Small bar fragment. 20x7x2mm.	20
14591	766	Wire fragment. L. 9mm.	20
14591	766	Very small lump.	20
15015	439	Two small fragments.	20
15170	466	Very small wire fragment. L. 11mm.	20
15869	520	Four small wire fragments. Possibly hobnail shafts.	20
20031	806	Wire fragment, possibly a needle point. L. 15mm.	20
21503	1111	Two very small fragments.	20
21503	1111	Sheet fragment.	20

Box XLV Objects from cremation 12203 (contexts 12197 and 12205) (boxed cremation)
Period III

SF6153 and SF6154 transferred from box XXIII

12197 SF8295 transferred from box XLIII (Soil samples)

12205 SF4785 and SF4786. Both of these small finds consist of nails from the box, and are divided into those from the upper (SF4785) and lower (SF4786) fills of the burial. The nails were plotted, but not individually numbered. There were several joins between the two SF numbers, with fresh breaks, so the separation into two groups may not be very meaningful. Some of the fragments from both SFs were natural soil concretions resembling iron corrosion, and because of the lack of individual small find numbers, it is not possible to say which of the 'nails' plotted were real, and which were natural concretions. The total number of real nails collected is between ten and fourteen; this compares well with the eleven plotted nails, and suggests that, despite some mixing between SF4785 and SF4786, there could have been two nails present at each plotted point, as is suggested by the plan.

There appear to be two sizes of nail used in the construction; the larger ones have round heads with diameters of 20-23mm, with lengths of about 110mm (two complete and four incomplete examples; also one nail similar in length, but with a smaller head). The smaller nails have heads with diameters of about 15mm, and are about 90mm long (one complete and two incomplete examples). The other nails are incomplete, some exhibiting recent breaks. The longer nails are above the average length for nails from the site; in a sample of 100 complete nails measured for the assessment, only one was longer than 100mm.

The nails are all straight, except possibly one. The nail fragment on the bottom of the lamp lies at the join between two planks, suggesting that the nails may have been used as clamps to hold the planks to the sides of the pit, rather than to join the pieces of wood together. The 'box' may therefore have been a planked pit lining rather than a properly constructed box.

12197 SF6153/6154/5744 Object from cremation pot.

Object, in five joining pieces, all but one recently broken. It comprises a bar with a rectangular section. One end is broader, tapering slightly to the main part of the bar. It has a single perforation set centrally, 38mm from the end. The bar becomes thicker at the junction between the terminal and the main bar. The other end is gently curved, and was broken off during antiquity. The very tip is slightly turned up. Overall L. 370mm. Terminal L. 59mm, max. section 22x4mm. Bar max. section 15x17mm, min. section 6x4mm.

It is not immediately clear what this object is. It may be an unusual form of latch lifter. I haven't yet found any parallels for it.

12205	SF4785	(Three bags) 16 nail fragments.			1339
12205	SF4786	Eight nail fragments.			1338
12205	SF4787	Hanging lamp. The lamp base is separate from the hanger, which was lying over the base when it was excavated.	4	x	1333
		The base is the normal figure-of-eight shape, with a curved back ending in a circular terminal with a central perforation. The shape of the back is unclear on the X-ray, as the metal was very mineralised, and it was not possible to clarify the shape through cleaning. There may be a hook through the hole, but it is very faint on the X-ray. The back cracked most of the way through in antiquity, and is now distorted.			1335
		The hanger is a straight bar with a square section. One end has a blunt point. Unlike most hangers, there appears to be no side spur, though it may have broken off flush with the bar. The other end has a circular loop, with an S-hook through it.			1336
		Lamp L. 141mm, W. 103mm, depth 28mm.			1523
		Hanger L. 285mm, W. 10mm, loop external diam. 22mm, S-hook L. 32mm.			
		The lamp base has an extensive area of mineralised wood on the bottom. The wood displays a butt joint between two planks, which were at least 8mm thick, running down the middle of the lamp. Part of a nail appeared to be present at the joint, but this is probably just corrosion products from the lamp. The wood was originally assumed to be the base of the box containing the burial, but the sketch with the object implies that the bottom of the lamp lay uppermost, with the hanger at an angle over it. The wood may therefore be the side of the box. The lamp base may have rested against the side, the lamp having tipped over when the wood rotted, or the wood may have fallen onto the base. The hanger was possibly originally propped in the corner of the box, falling on top of the lamp base after the mineralisation of the wood had taken place.			
		Hanging lamps are fairly common grave goods. Drury (1978, 99) notes that they occur in relatively rich, to rich, graves, and lists some of those from Essex, including the Bartlow Hills. To these must be added a rich burial from excavations at Stansted Airport (Havis forthcoming), Cremation 25.			
12205	SF4788	Two nail points, both broken in antiquity. One has extensive mineralised wood present.			1338
12197	SF6153	Bar, in three pieces. The narrower end has a fresh break, and joins SF5744. There is burnt bone adhering to it. L. 105mm, W. 6-10mm, Th. 6mm.	20		376
12197	SF6154	Bar, rectangular section, complete as buried. One end is bent up slightly, the other slightly curved. L. 89mm, section 7x4mm. Note on label 'Inside big pot'.	20		374
12197	SF5744	(s.s. 2418) Bar, variable rectangular section, fresh break at one end, joining SF6153.	20		1337
12197	SF8295	ss2418 Four very small fragments. One is slag, two are iron, one is natural.	20		350

Box XLVIa

Objects extracted from the bulk iron nails

7000	Bar fragment. Probably not a nail shaft, as it appears to taper at both ends. At least one end is broken. L. 80mm, max. W. 10mm.	20		898
7000	Double spiked loop, both spikes with recent breaks. Made from a square sectioned bar. Loop external diam. 29mm, internal diam. 17mm. L. 37mm.	11		898 1522
7000	Ox goad. Rees Type 1 (coiled), with three coils. A nice example, complete though broken. L. 47mm, external diam. 17mm. Machining layer	12		898
7000	Sheet fragment. 30x11mm.	20		898
7000	Simple chisel. The blade is relatively elongated for the type, although still an inverted triangle, with very slight shoulders onto the tang. Complete. L. 45mm, blade L. 20mm, W. 9mm.	10		898
7000	Simple chisel. The edge of the blade is bevelled and the tang incomplete. L. 43mm, blade W. 15mm.	10		898
7000	Small lump, very vesicular on the X-ray. Working waste	15		898
7073	Awl, with a square section, tapering to a point at one end and with a very narrow chisel point at the other. The latter feature identifies it as a carpenter's bradawl rather than a leatherworker's awl. L. 89mm, max. W. mm. Layer, not phased	10	89	899
7115	Pointed wire, circular section, tip bent. This is probably a needle, broken at the base of the eye (a fresh break); there is a slight suggestion of the beginning of an eye on the X-ray. L. 52mm, diam. 1.5mm. Period VI	3		899 1067
7447	Rod. One end was probably broken in antiquity, the other end is slightly splayed and slightly flattened, with a straight edge, 11mm wide and 4mm thick (i.e. there is no blade edge). This edge appears to be original. This is probably a punch, although it lacks the swelling of the shaft normally found on such tools. L. 72mm, square? section, W. 7mm.	10		899 1067
7453	Key; the bit from an L-shaped lift key with three teeth. There is recent damage to the shaft. The bit is curved, which is very unusual for a lift key, although more common on Manning type 1 slide keys. L. 63mm, L. of bit 46mm. Gully 7454, not phased	111	90	899
7470	Bar fragment with an irregular sub-triangular head, edges fissured. Probably working waste. L. 41mm, max. W. 15mm.	15		899
7624	Fragment, corroded onto a nail. It is probably flat, and a shallow U-shape. Possibly part of a perforated strap terminal. \leq 18x7mm.	20		900 1067
7646	Triangular fragment, the wider end probably broken in antiquity. Probably flat, rather than a nail shaft. L. 36mm, max. W. 7mm.	20		900
8094	Bar fragment, section uncertain. 54x10mm.	20		900
8094	Three joining fragments of a woolcomb (old breaks) with mineralised wood on the surface. Only teeth are present, probably from the edge of a comb with unsplayed teeth, although there is no thickened side piece. L. 97mm, Th. 6mm.	3		900
8141	Two pieces of wire, one slightly curved. Diam. 1.5mm, L. 42mm and 26mm.	20		901 1068
8187	Two amorphous lumps, probably working waste.	15		901
8275	Bar, with a regular curve, possibly part of a ring. Both ends broken in antiquity, section uncertain. Internal diam. 50mm, external diam. 62mm.	20		901
8277	Ferrule. Circular collar, probably with two small tacks, through opposite sides. External diam. 17mm, Th. 4mm, ht. 16mm.	11		901
8277	Rectangular? block, one corner missing. Another corner has a ?spike on the back, now incomplete and flaked. This appears to be integral with the block. The tip of the spike is probably corroded onto, but not touching, a nail from the same context. Block 32x19mm, spike surviving L. 41mm, W. 10mm (square section).	20		901 1067

8636	Rod, with variable section. The section is square for most of its length, changing to rectangular towards one end. Both ends are broken. The rectangular sectioned end is curved. Also a small pointed rod fragment, possibly the tip of this object. L. 102mm, W. 3-5mm; point L. 31mm, max. W. 3mm.	20	902
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Box XLVIb

Objects extracted from the bulk iron nails

Context	Notes		
6053	Bar fragment, fresh breaks both ends. Square section, W. 10mm. Possibly a large nail shaft. L. 123mm.	20	907
6057	Bar fragment, slightly tapering each end, broken in antiquity. Possibly the top bar of a carpenter's dog. 55x11x4mm.	20	907
6079	Bar fragment with a rectangular section, slightly tapering, and curved lengthwise. L. 53x8x c 20mm.	20	907
6079	Cranked bar fragment, pointed at one end. Possibly flattens slightly at the end (the X-ray is faint). Probably a tang from a tool, possibly a trowel. L. 75mm, section 10x7mm.	20	907
6117	Bar, probably a tool or knife tang. At least one end is broken. It has mineralised bone on the surface, probably horn, which is probably the remains of the handle. L. 47mm, W. 10mm.	10	908
6121	Simple chisel, broken square-sectioned tang. Quite a chunky chisel. L. 40mm, blade W. 21mm.	10	907
6142	Bar, with a square section. One end is broken, the other is an inverted triangle only slightly thinner than the bar, with the surface flaked off. Possibly an incomplete chisel, but the condition makes positive identification difficult. Alternatively, it could be a broken T-staple. L. 74mm, section 10x10mm, head W. 23mm.	20	908
6142	Simple chisel, shaft broken. L. 42mm, blade W. 16mm.	10	908
6142	Two bar fragments, possibly part of the same object, but not now joining. One is complete as buried, and bent into a regular curve. L. 57mm, section 7x5mm. The other is straight for half its length, then has a shallow curve. One end at least was broken in antiquity. L. 76mm, section 10x6mm.	20	908 1389
6170	Object ostensibly resembling a small socketed blade, point missing. However, the 'blade' is bent, and has no edge, while the socket is probably just the end of the strip cut lengthwise and squashed. This is probably scrap metal. L. 61mm, max. W. 14, max. th. 7mm	15	908 1067 1521
6227	Small lump	20	908
6227	Strip fragment, curved lengthwise, both ends broken in antiquity. Section c 15x7mm, L. 43mm.	20	908
6316	Bar, square-sectioned. One end is complete and bevelled. The other is fragmented and split, and is probably not now in its original form (VF). Possibly a tool tang. L. 50mm, W. 5mm.	20	910
6316	Lump, very mineralised. Possibly a nail shaft.	20	910
6320	L-shaped bar, edges rather irregular, and parts of the surface fissured. There are several small blobs of ?lead in the corrosion products. Probably working waste.	15	909
6350	Bar fragment, possibly a large nail shaft. L. 45mm, W. 12mm.	20	909
6418	Bar, with square? section. One end is straight, complete as buried, the other is probably pointed. Possibly a large nail shaft. L. 122mm, W. 7mm.	20	910
6515	Lump of working waste	15	909
6515	Small sheet fragment, from a right-angled corner. Fresh break. 20x9mm.	20	909
6515	Strip fragment with one squared end, other end has fresh break. 15x13mm.	20	909
6515	Strip fragment with the end turned at right angles. There is a fresh	20	909

Context	Notes			
	break at this end. 33x10mm.			
6515	Strip fragment, broken both ends, one break fresh. 38x12mm.	20		909
6515	Strip fragment. 14x7mm.	20		909
6515	Very mineralised fragment, probably a nail	20		909
6541	Bar fragment. 35x13x c 4mm.	20		911
6556	Bar fragment with irregular edges. Probably working waste. c 24x18mm.	15		910
6742	Rod fragment, with a crooked terminal. The rod has a fresh break. This is the terminal of a crook-headed pin, a type used principally in the late Iron Age. There is a parallel from a late Iron Age context at Slough House Farm, only a few kilometres from Heybridge (Major 1998, 123, no. 1). Although the type probably continues at least into the early Roman period, the Elms Farm pin is likely to be residual in its context. L. 47mm, W. across loop 17mm, diam. of rod 5mm. Layer, Period V-VI.	1	67	911
6742	Strip with a rectangular section, in the shape of a flat half U. The end of the arm is squared, and possibly original, the other end has a fresh break. There is a slight constriction at the bottom of the curve. L. 44mm, section 7x4mm.	20		911
6767	Bar fragment in poor condition, possibly a nail shaft. L. 48mm, W. 8mm.	20		911
6855	Bar fragment, section uncertain. 49x12mm.	20		911
6875	Tapering bar, possibly incomplete. There is a slight kink in the middle, and the wider end may be bevelled. Possibly a small wedge. L. 47mm, W. 15-20mm, Th. 8-10mm.	20		1067

Box XLVII

Objects extracted from the bulk iron nails, for X-ray, Feb. 1996

Context	Notes			
8737	Cleat, or small flat-topped staple (X-ray is side view only). L. 27mm, arm L. 13mm.	11		624
8737	Twisted strip. It ostensibly resembles part of a socket, but the thickness is very variable, and it is probably just scrap metal. L. 97mm, W. 10-27mm, th. 3-7mm.	20		623
8986	Bar, with a square section. One end has a fresh break. The other end is bent at right angles, and tapers to a wedge point. This arm is probably the same width as the rest of the bar. Possibly a carpenter's dog. L. 80mm, section 8x8mm, arm L. 26mm.	20		625
8990	Curved bar or rod, complete as buried. L. 72mm, W. 7mm.	20		621
9385	Lump, probably not a nail. c 23x12x?mm.	20		621
9417	Fragment of curved wire. L. 34mm, diam. 1.5mm.	20		625
9488	Lump of working waste. Appears spongy on the X-ray.	15		620
9588	Strip, with an old break either end. It undulates, and is slightly thicker at one end. Possibly working waste. L. 68mm, section 9x2mm – 7x1.5mm.	20		620
10000	Bar, complete as buried. One end is bent slightly. L. 103mm, section c 10x8mm.	20		624
10000	Probable bar fragment. L. 48mm, W. 20mm, th. not known.	20		624
10000	Rod, complete as buried, with a circular section. L. 92mm, diam. 11mm.	20		624
10000	Stylus, of simple form. The point is missing, and the eraser is D-shaped. In poor condition. L. 105mm, W. of eraser 12mm. Pit 10062, Period IV	7	x	624
10000	Two small amorphous lumps	20		624
10000	Wire, probably slightly tapering. The other end has a fresh break. Possibly a needle. L. 81mm, diam. 1.5mm.	20		624
10007	Two strip fragments, possibly originally parts of the same object. One	20		621

Context	Notes		
	is now in two pieces, and is bent into a narrow U-shape, with an old break at the bend. L. (flat) 85mm, section 15x2mm. The other piece is squared at one end and shouldered at the other. The section is not visible. L. 35mm, W. 15mm.		
10011	Sheet fragment, edges indistinct on the X-ray. Fresh break on one edge. $\leq 25 \times 18$ mm.	20	621
10017	Chain fragments. There are four definite and one probable fragment, presumably all from the same chain, which was probably composed of alternate oval loops and figure-of-eight loops. There are three oval loops, 40x12mm; a shorter oval loop, 31x15mm; parts of three figure-of-eight loops, none complete, originally $\leq 40 \times 16$ mm; and four small fragments of uncertain shape. The largest piece has an oval loop interlinked with parts of two figure-of-eight loops.	20	622
10017	Lump, possibly a nail head.	20	622
10024	Strip fragment in two pieces, with a fresh break. It is broken at a right-angled bend at each end (fresh breaks). L. 43mm, section 11x2mm.	20	620
10028	Strip, slightly wavy, and variable in width. One end is slightly twisted. Probably working waste. L. 137mm, section $\leq 6 \times 2$ mm – 3x1mm.	15	620
10039	Carpenter's dog, broken across the top of the arms. L. 64mm, section 7x3mm.	11	621
10039	Curved strip in two joining pieces. Possibly part of an oval collar, $\leq 46 \times 35$ mm. Section 9x6mm.	11	621
10039	Probable large staple fragment. An L-shaped bar, with one end pointed. The other arm is probably flat. There is a slight constriction at the bend. L. 71mm.	11	621
10073	Bar, with one end damaged, possibly tapering. The surface has flaked. It has an Slightly broader, L-shaped head with a curved top, which appears complete. The head appears to have been deliberately shaped, so this is probably not working waste. It is possibly a form of L-staple. L. 52mm, section 13x8mm. Head L. 23mm, W. 12mm, th. 8mm.	20	621
10104	Double spiked loop, points missing (old breaks). L. 49mm, section 7x4mm, W. of head 18mm.	11	625
10104	Strip, slightly curved. 45x9x3mm.	20	625
10194	Bar, complete as buried. 76x15x7mm.	20	621
10235	Bar, with the tip turned up, complete as buried. Probably not a nail shaft. 68x8x8mm.	20	625
10242	Possible simple chisel. The shaft is broken, and the head flattened into a small, rounded blade. L. 43mm, head W. 10mm.	10	625
10255	Two strip fragments, both damaged. 50x6x4mm and 23x4x2mm.	20	625
10262	Probable tool tang. There is bone on the surface, probably traces of a handle. L. 78mm, section $\leq 7 \times 7$ mm.	10	625
10330	Bar, with a very low triangular head the same thickness as the shaft, probably broken in antiquity. This could be a broken simple chisel or a tool tang. L. 52mm, head W. 17mm.	20	625
10391	Bar fragment, with an ancient break at one end. 34x10x6mm.	20	625
10391	Plate fragment, edges unclear on the X-ray. $\leq 10 \times 7$ mm.	20	625
10492	Bar. One end has a right-angled bend, with a fresh break just beyond. The other end is bent at an angle, and is complete, and slightly rounded. This is probably part of rectilinear binding, or a staple. L. 73mm, section 11x5mm. Layer, Period V-VI	11	619
10492	Small socketed spearhead, with the very tip and most of the open socket missing. L. 97mm, max. W. 20.5mm. Layer, Period V-VI	13	x 619
10492	Tanged object, with part of a ?blade at right angles. This is probably a trowel tang, broken at the top of the vertical element of the tang, and across the beginning of the blade. The bottom of the tang broadens slightly. L. 65mm, max. W. of tang 16mm. Layer, Period V-VI	10	619
10502	Two possible simple chisels, with the heads bent over. a) incomplete shaft, L. 33mm, head W. 16mm b) complete. L. 47mm, head W. 15mm.	10	625

Context	Notes		
10514	Strip. One end is formed into a loop in the same plane as the strip, the other end is broken. In very poor condition. This is quite a delicate piece of ironwork, and could be the handle from a small key. 75x9x2mm.	20	619

Iron Box XLVIII Contexts 10539-13219

Objects extracted from the bulk iron nails, for X-ray, March 1996

Context	Notes		Draw	
10539	A probable padlock bolt, with a single leaf. The leaf is complete with a slightly rounded end. The bar it is attached to is narrower, and broken. Leaf L. 58mm, W. 8mm; bar section 5.5x2mm.	21		599
10597	Object in three joining pieces. A narrow rectangular sectioned strip with one end formed into a small loop. The other end is pointed. Just above the point, two flat wings on either side have been bent over to form a socket. L. 146mm, strip section 6x4mm. Pit 10552, Period II B	20	97	602
10642	Fragment of a lump or bar, broken in antiquity. L. 22mm, W. 17mm, th. unknown.	20		603
10649	Sheet fragment, all edges broken. 21x15mm.	20		603
10658	Block. At least one end was probably broken in antiquity. Slightly trapezoidal section. 40x20x13mm.	20		603
10682	Probable tool tang. A square sectioned pointed bar, with a fresh break at the other end. The section becomes rectangular and much thicker just before the break. L. 57mm, max. section 17x9mm.	20		604
10693	Amorphous lump with irregular edges, probably working waste. \varnothing 27x18x15mm.	15		602
10751	Barrel padlock barb-spring with four leaves, the tip damaged. It has a thin end cap, with the tips of the leaves bent outwards below it. This is an unusual example in several ways. Enough survives of the cap end to be fairly certain that it is from a round-section padlock. These are far rarer in Roman contexts than rectangular sectioned ones, though normal for medieval barrel padlocks, and the thin end cap is also similar to those found on medieval padlocks with D-shaped shackles (Winchester type D, Goodall 1990, fig. 315, no. 3674). However the context seems secure, so there is no reason to think that this is post-Roman. L. 49mm, W. 14mm. Pit 10763, Period V	21	95	602
10781	Bar fragment in two pieces (fresh break), with a slight taper. Possibly a nail shaft. \varnothing 54x10x10mm.	20		600
10891	Bar fragment with a square section, slightly curved. One end has a chisel point, the other has an old break. This end may be thinner, though this could be an effect of corrosion. Possibly a small chisel. L. 42mm, section W. 5.5mm. Pit 10910, Period V	20		604
10891	Stylus, eraser missing. The bottom of the handle has an inlaid band of copper alloy, 2mm wide. The point is separate. L. 89mm, diam. 5mm. Pit 10910, Period V	7	96	604
10897	Angle bracket, with a D-shaped section, both arms broken. The loner arm is broken across the start of the flattened terminal. L. of arms 86mm and 18mm, section 11x5.5mm.	11		603
10978	Probable simple chisel, with the head bent over. L. 50mm, blade W. 17mm.	10		599
11000	(4960/8090) Tang, possibly from a chisel, broken at the start of the blade. L. 57mm, max. section 8x7mm.	10		604
11000	(not plotted) Amorphous lump, probably working waste. \varnothing 30x20x10mm.	15		599
11139	Bar fragment, both ends broken in antiquity. It has another bar fragment corroded on, but this has come out very poorly on the X-ray. L. 77mm, W. 6mm.	20		604
11139	Possible flesh hook fragment. A square sectioned rod, with a fresh	4		604

Context	Notes	Draw		
	break at one end and an old break at the other. It has a curved rod welded on, very little of which survives, which may have been one of the pair of prongs of a flesh hook. L. 52mm, W. 5mm.			
11139	Probable simple chisel. The point of the tang is missing, and the blade probably incomplete. L. 58mm, blade W. 16mm.	10		604
11210	Gently curved bar, possibly part of a ring with an external diameter of c 100mm. Th. 7mm.	20		599
11265	Rectangular sectioned bar, pointed at one end, the other end broken at a right-angled bend. Possibly an incomplete hinge pivot. L. 81mm, max. section 14x12mm.	20		604
11276	Concreted object. Probably a nail, but very mineralised, and didn't come out on the X-ray.	20		600
11302	Bar with a non-tapering square section, bent. One end is broken, and the other has a flattened spherical head. This is possibly a nail, but the head is unusually small and thick for a nail of this size, and it is more likely to be a bar with a knob on the end. L. 88mm, head diam. 12mm, th. 8mm.	20		604
11302	Rod fragment, bent. One end has a blunt point, the other has a fresh break. The section may be variable; it appears to be circular at the point end and square at the other. L. 98mm, section W. 4mm.	20		604
11305	Strip fragment in two pieces, with a fresh break. Possibly a non-joining part of the twisted strip from the same context. L. 52mm, section 6x4mm.	20		601
11305	Strip, rectangular section. It is flat for 15mm, then the remainder has a regular twist. The flat end may be original; the other end was broken in antiquity. In two pieces, with a fresh break. L. 65mm, section 7x4mm.	20		601
11340	Rod with a circular section, tapering to a point at either end. L. 59mm, max. diam. 6mm.	20		599
11354	Blade tip, probably from a scythe. The back is thickened, and the blade flat on one face. The other face of the blade changes angle halfway across. The tip is blunt. This is likely to be the tip from a heavily backed blade such as a scythe, where the presence of a sharp tip is unimportant. L. 33mm, max. W. 13mm.	12		599
11468	Ox-goad. Incomplete Rees type I (coiled) with half a coil and the prong surviving. L. 26mm, external diam. 20mm, internal diam. 14mm.	12		599
12000	Bar fragment of almost constant width and variable thickness, slightly curved. Both ends have old breaks. L. 45mm, section c 8x7mm.	20		601
12000	Bar fragment with a slightly rounded tip, the other end broken in antiquity. The section is rounded towards the tip, becoming squarer at the broken end. Probably a punch. L. 87mm, section W. 9mm.	10		601
12000	Bar fragment, with as slightly rounded, tapering section, the point missing. Probably a small metalworking punch. L. 36mm, max. section 14x13mm.	10		601
12000	Bar with a square section. One end tapers to a small, oval button tip, the other has a fresh break, and is probably starting to taper. It is possibly the end of an object such as the probable brazier or tripod leg from Ewell (Manning 1985, 100 and pl. 45.P7), which has a small circular button on the end. L. 81mm, W. 8mm, tip diam. 5mm. Machining layer	20	91	601
12000	Two bar fragments with flattened tips, corroded together. Possibly the tips from a small pair of pincers. They seem to be fairly crudely finished. L. 40mm, max. section 7x5.5mm, tip W. 10mm. Machining layer	20	92	601
12036	Bar fragment, probably a punch rather than a nail shaft. The section is rectangular rather than square, and the X-ray shows a rounded tip which appears original, and which bulges slightly on one side. The head end of the bar tapers slightly, but there is no sign of burring on the top. There is a fleck of ?lead in the corrosion. L. 67mm, section towards tip 7x5mm, max. W. 7mm.	10		601

Context	Notes	Draw		
12041	Tapering bar fragment, probably with a blunt point. Possibly not a nail, as the structure of the metal is different from the definite nails from the context. L. 49mm, max. W. 9mm.	20		601
12043	Two fragments of working waste, one dense and amorphous, the other vesicular.	15		600
12044	Bar fragment, slightly tapering. The thicker end is possibly complete, the other end has a fresh break. Another small bar fragment from this context may be part of the same object. L. 44mm, section 8x6.5mm.	20		599
12044	Small bar fragment, possibly a non-joining piece of the other bar from this context. 15x8x5mm.	20		599
12045	Bar fragment, possibly a nail shaft, but the point may be bevelled. The metal is very mineralised. L. 56mm.	20		599
13043	Bar fragment with a rectangular section. One end is pointed, the other probably broken in antiquity. 46x10x7mm.	20		599
13043	Bar fragment, with a rectangular section, tapering slightly. The narrower end was broken in antiquity. The broader end is bevelled. This is possibly a delicate chisel, but the complete end is slightly kinked, and this may be just scrap metal. L. 46mm, section 3x2mm to 6x2mm.	20		599
13045	Socketed spear-shaped object with a hole in the middle of the blade. The edges and point are blunt. The socket was formed by folding the sides of the bar to the middle. L. 114mm, socket diam. 18mm, blade W. 23mm. Prepared surface, period III	14	93	598
	This is likely to be a ritual pole tip or votive object. Spear-shaped pole tips have been found at a number of sites (e.g. Baldock; Manning and Scott 1986, 153, no. 523), but generally have two holes at the base of the blade. They have been interpreted as 'rattles'; the example from Baldock still has a ring through one hole. The single, centrally set, hole in the Elms Farm example is perhaps more likely to represent the ritual 'killing' of the object, rather than having been functional. A miniature silver spear from Uley has a similar hole, in addition to having been bent (Henig 1993, 131).			
13045	Strip, with a rounded terminal, looped over. The other end has a fresh break. The loop is twisted at an angle to the rest of the strip, possibly due to force having been applied in antiquity rather than being an original feature of the object. L. 45mm, ext. diam. of loop 19mm, section 10x3mm.	20		598
13061	Socketed, wedge-shaped object. It has an irregular, rounded section, with a slightly bevelled point. The other end is incomplete, broken in antiquity. This end has a ledge round the outside, as if something was seated round it; perhaps a separate metal band, or part of the handle. The socket is oval. L. 42mm, max. section 19.5x15mm. This object is reminiscent of Rees' Type 1b ard shares, though it is much smaller (Rees 1979, 50ff). Possibly it was a shoe from a small digging tool. Post-hole 13131, Period III B	20	94	600
13063	Lump. L-shaped, with irregular edges. Probably working waste. c 28x20x10mm.	15		602
13218	Bar with a rectangular section, straight for 56mm, then bent at c 75° for 31mm. Possibly part of a staple. Section 8x5mm.	20		598

Box XLIX

15574	SF6670	Two shackles, both open when found. Each consists of two curved rods with square sections, joined by a simple looped hinge, the other ends also being looped. One was cleaned, and is illustrated. It was in two pieces when found, the larger of which had cracked during burial, and broke during conservation. One looped terminal was detached, and does	12	162	460 P339
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not join. Each half had six penannular rings threaded on it, made from strips of variable width, 6-16mm. The unillustrated shackle was almost identical, but had only five rings on each half. Ring diam. 20mm. SF6670, Fill 15574, Pit 15573, Period II-III

The presence of rings on the shackles is paralleled at only one site, Vertault in Gaul (Cote-d'Or), illustrated in Thompson 1993, 110 (with reference to Audin and Armand-Calliat 1962).

Box L Objects from Soil Samples, slag and tile

Context	s.s.		Cat.	X-ray
4129		c 25 lumps, all working waste.	15	1084
4129	613	Five lumps of working waste.	15	1085
4129	603	Six lumps working waste	15	1085
4129	603	Strip fragment. 14x9mm.	20	1085
4187		Two lumps of working waste.	15	1085
4239		Two lumps of working waste.	15	1085
4294		Irregular fragment of working waste?	15	1085
4699		Bar fragment. One end has a fresh break. 33x7x3mm.	20	1085
4699		Fragment with variable section, probably working waste. L. 47mm, section c 11x10mm.	15	1085
4699	655	Wire fragment, flattened at one end, fresh breaks both ends. L. 11mm.	20	1085
5376	916	Probable cleat fragment, one arm missing. L. 25mm, W. c 8mm, arm L. 17mm.	1	1086
8141	1818	Plate fragment with one straight edge. 58x35x4mm.	20	1087
8766		SF8466 Part of a folding knife, corroded onto a piece of tegula. The blade is complete, with a straight cutting edge and curved back. The handle, which is now at an angle to the blade, has two rounded lugs, flattened against the blade and pivoting on an iron rivet. Unlike the other folding knives from the site, the handle is tanged rather than socketed, but little of the tang survives. Blade L. 81mm, max. W. 21mm; lug W. 16mm, tang section 5x5mm. Pit 8745, Period V	10	131 1086 1212 1213
9054	309	Bar with triangular section. One end is slightly thickened or burred, and appears complete. The other was broken in antiquity, and is either turning at right angles or broadening out. Too narrow and thick to be a knife blade. L. 62mm, W. 9mm, Th. across back 5mm.	20	1087
9297	374	Rectangular block, probably working waste. 24x14x c 6mm.	15	1087
9894	485	Rod, with a square section. One end is looped, the other broken in antiquity, probably across the start of a bifurcation. This delicate piece is bent, but this is unlikely to be original. L. 65mm, section 2x2mm. Well 9421, Period III B	20	123 1087
10011		Plate fragment with one straight edge and one stepped edge. L. 32mm, W. 7-14mm.	20	1088
10891	1612	Sheet fragment, broken across a hole. 32x10mm. Also a small fragment of sheet.	20	1088
13669	1039	Tapering bar with a rectangular section, with a blunt, turned-up tip. The head is an inverted triangle of constant thickness. The shape of the shaft makes it unlikely that this is a nail. It is possibly just an offcut. L. 59mm, head W. 22mm, th. 5.5mm.	20	1088 1389
13669	1039	Tapering bar, with a rectangular section. The head is a low inverted triangle of constant thickness, complete as buried. The other end is turned up slightly. The shape of the shaft section makes it unlikely that this is a nail, although it could possibly be	20	1088 1389

Context	s.s.		Cat.	X-ray
		a small T-staple. L. 59mm, head W. 22mm, Th. 5.5mm. Duplicate entry?		
13825	1057	Sheet fragment. Fresh break. 27x25mm.	20	1088
14053	721	Strip fragment, one end pointed. 32x7mm.	20	1088
14381	755	Two strip fragments, one twisted. 42x5mm and 13x3mm.	20	1088
14534	753	Bar or rod, the end curved slightly, and probably with a small knobbed head at this end. Probably not a nail. L. 37mm, W. 3mm, head diam. 5mm.	20	1088
14551	761	Ring. Square section. External diam. 30mm, internal diam. 23mm.	20	1088
14564	788	Rod fragment, circular section. L. 21mm, diam. 4mm.	20	1088
14569	760	Small split-spike loop, complete. Probably made from a strip with a width of c 7mm. L. 32mm, W. across head 15mm.	11	1088
14569	760	Strip fragment. 32x6mm.	20	1088
14743	782	Strip fragment. 31x5mm.	20	1088
14784	786	Lump, roughly tongue shaped with an irregular quadrilateral section. Probably working waste.	15	1089
14784	786	Small flat fragment with variable width. L. 20mm, max. W. 6mm.	20	1089
14784	786	Strip, complete as buried, no perforations. 62x9mm.	20	1089
15288	475	Small lump.	20	1089
17353	2450	23 small fragments, possibly all debris from iron working. Comprises a) Three bar fragments, all the same size, suggesting they may be offcuts rather than nail shafts. L. 32mm. b) Four shorter bar fragments. c) Sheet fragment with a curved edge, with a small strip fragment corroded on. c 27x16mm. d) Two rather irregular bar fragments, probably working waste. c 38x10mm and c 21x8mm. e) Strip, now in pieces. 44x5mm. f) 11 small fragments of sheet and bar.	20	1089
17353	2450	Small piece of working waste.	15	1089

Box LI

Additional objects from Soil Samples and slag: not for X-ray

Context	s.s. no.		
403	6	SF223 Rod fragment, probably not a nail as the section appears circular. Possibly a brooch pin? L. 15mm, diam. 1mm.	20
497	34	SF224 Disintegrated fragment, possibly a nail; small lump, not identifiable; two small strip fragments, 15x6x1mm and 25x7x1mm.	20
4539		Bar fragment, slightly curved, broken both ends. 24x8x5mm.	20
4699		Plate fragment, edges broken. c 24x27x5mm.	20
4842	681	Small fragment, possibly part of a nail shaft.	20
5392	919	Wire fragment with ?square section. It seems too delicate to be a nail shaft. L. 21mm, W. c 1.5mm.	20
10891	1612	Four small flat fragments in good condition. Working waste?	20
13437		Small curved sheet fragment, edges broken. Possibly part of a socket.	20
14022	714	Rod fragment, circular section. L. 14mm, diam. 4.5mm.	20
14528	752	Wire fragment, possibly a brooch pin. L. 15mm, diam. 2mm.	20
14558	762	Wire fragment. L. 10mm, diam. 1.5mm.	20
14564	781	Small sheet fragment	20
15151	470	Plate fragment in good condition, probably part of a strip broken in antiquity. 34x21x3mm.	20
19030	1920	Bar-like fragment, surface flaked. 28x11x5mm.	20

Box LII

Cont.	SF	Description	Func.	Draw	X-ray
4825	SF8228	Plate, with slightly bowed sides, and both ends cut or broken	20		1315

Cont.	SF	Description	Func.	Draw	X-ray
		in antiquity. In good condition. L. 45mm, W. 17-23mm, Th. 2.5mm.			
7636	SF8227	Wedge or tool point, of constant width. The top shows no signs of use, and may be incomplete. L. 43mm, max. section 16x15mm.	10		1315
9427	SF8226	Just under half of a ?ring, with fresh breaks. Thick oval section, 15x12mm, external diam. 43mm.	20		1315
10378	SF8229	Bar, square-sectioned, with slight taper. The broader end was probably broken in antiquity, and the narrower has a recent break at a ?right-angled bend. Probably not a nail shaft. L. 67mm, max. section 9x9mm.	20		1316
10587	SF8234	Amorphous lump of working waste. \varnothing 19x20x20mm.	15		1315
15756	SF8232	Stylus. The point is missing, and the stem bent. It has a reel above the point with an applied corrugated copper alloy strip. Above this is a smaller reel, with an inlaid, plain strip of copper alloy further up the handle. The original shape of the eraser is uncertain. The undecorated reel has a very slight groove round the middle, which was probably the seating for another copper alloy band, now lost. There is a very slight groove round The iron is very brittle. XRF analysis by MB showed that both bands were brass (Cu/Zn). L. (straight) 129mm. Pit 15755, Period IV-V	7	x	1315
23172	SF8413	Bar fragment, both ends broken in antiquity. One end has two projections, probably a broken and distorted loop rather than prongs, but rather faint on the X-ray. The bar tapers slightly, and the other end is twisted for \varnothing 100mm. It is possibly part of an object such as a pan handle (cf Manning 1985, P34), a small flesh-hook or a small fire tool. L. 171mm. Pit 23214, Period III	20	128	1316

Extras from slag, Nov. 2000 (not X-rayed).

2100		Irregular lump. Working waste. \varnothing 44x35x32mm.	15		
6314		Sub-rectangular block, probably working waste. \varnothing 20x14x10mm.	15		
6420		Irregular block, probably working waste. \varnothing 39x28x10mm.	15		
6426		Irregular lump. Probably working waste. \varnothing 33x24x14mm.	15		
6426		ss 2115. Small lump, \varnothing 15x10x8mm.	20		
7000		Irregular lump. Working waste. \varnothing 38x38x10mm.	15		
7057		Large lump of working waste. The metal is iron rich but clearly vesicular. \varnothing 90x65x30mm.	15		
7290		Lump, with recent damage. Possibly working waste. \varnothing 42x10x15mm.	20		
8093		Irregular block, probably working waste. \varnothing 38x25x16mm.	15		
8825		Bar fragment. One end is complete as buried, the other has a recent break. It tapers slightly at each end. This is possibly a hot chisel or similar tool, but is too incomplete to be certain. L. 70mm, max. section \varnothing 20x15mm.	20		
9427		Two irregular lumps, probably working waste. \varnothing 39x25x9mm and \varnothing 24x18x14mm.	15		
10250		Irregular block, probably working waste. \varnothing 50x32x14mm.	15		
10250		Small block, probably working waste. \varnothing 10x15x5mm.	15		
10305		Thick strip, complete as buried. 68x30x9mm.	20		
10305		Bar fragment. 42x10x9mm.	20		
10305		Irregular lump. \varnothing 37x18x15mm.	20		
10506		Hipposandal heel, hook incomplete. W. 70mm, L. 55mm.	8		
14547		Block, complete as buried. Slightly tapering. Probably working waste. 47x24x14mm.	15		
16073		Sub-rectangular block, complete as buried. Probably	15		

21615	working waste. 38x28x15mm. Oval block, variable thickness. Working waste. c 15 50x30x15mm.
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Box LIII

Additional iron from various finds and slag (after main slag catalogue done, Nov. 2000).

4800	Sheet fragment, with spots of vitrified material on the surface. The X-ray is vague, and the original shape uncertain. c 44x43mm.	20		371
6320	SF2361 Padlock bolt, in poor condition, friable and partly fragmented. In four main parts, only two of which now join. It was similar to Manning 1976, O68, but with only two leaves. The haft is narrower, and the stop ridge flanged on the spring side. Original L. >200mm, stop ridge diam. 33mm.	21		371
6426	Seven irregular blocks of working waste. The largest is c 77x50x18mm.	15		372
6426	Strip fragment in two pieces, one of which is incorporated into one of the blocks of working waste from this context. It appears to be integral with the block rather than just corroded on, which implies that the strip is scrap metal. It has a circular hole punched through, close to one end and off centre. 91x26mm, hole diam. 5mm.	20		372
6515	Oval loop in two pieces. The matrix contains pieces of at least five other loops, which appear to be smaller and circular, some of which are definitely joined onto the larger loop. However, the metal is very badly preserved, and the X-ray not very clear. MB cleaned part of the block, but the metal was very poorly defined. The main link is 72x11mm, made from wire of diam. 3.5mm. The smaller rings appear to have a diam. of c 15mm.	21		371
6786	Possible simple chisel blade. A very blunt triangular blade with a short tang, probably broken in antiquity. L. 38mm, blade W. 17mm.	10		372
7103	Spongy lump of working waste.	15		372
7140	Ox goad, coiled. Rees type I. It has a tapering iron strip jammed into the hole, with the tip turned over, adjacent to the point of the goad. The point of the goad and the broader end of the strip were broken in antiquity. With the point turned over, it seems unlikely that the strip could have got into this position accidentally, but it is not clear whether it was done for a specific purpose. Ox goad L. 38mm, diam. 17mm; strip L. 79mm, section 11x5mm-4x4mm. Pit 7139, Period III	12	167	372
8825	Punch or wedge with a slightly burred head. The head is also slightly domed, though this may be a product of corrosion. The width is almost constant. It is in poor condition, with the blade fissured. L. 77mm, W. 18-20mm, max. th. 15mm.	10		373
9197	Block, irregular, probably working waste. c 38x34x?mm	15		371
9244	Double spiked loop, points missing. Made from a rectangular sectioned bar. L. 62mm, W. across loop 26mm, section 6x9mm.	11		374
9244	Two bar fragments. 58x22x14mm and 67x11xc 9mm.	20		374
9244	Rectangular plate. 23x19x4mm.	20		374
9427	Small block. c 34x13x10mm.	20		374
9431	Handle, probably from a small key. A plain rectangular block with a square section, with a broad end loop. The	21		373

	broken shank has a circular section. Total L. 44mm, terminal block 27x9x7mm, loop W. 11mm.			
9683	D-shaped block. c 27x18x4mm.	20		373
9698	ss 4936 Front hook and parts of the integral wings of a type 2 hipposandal. This type, in which the wings join at the front, is the least common form of hipposandal. There are also two non-joining fragments, which are probably parts of the same object. L. of hook 78mm.	8		374
10004	Strip fragment. 42x21mm.	20		374
10004	Small, roughly square lump. c 15x15x5mm.	20		374
10060	Sheet fragment, originally with one straight edge. 36x24mm.	20		373
10305	Lump, probably mostly corrosion products. Vague on the X-ray.	20		369
10391	Iron box LIII. One of the iron nails from this context has a small flat blob of copper alloy in the corrosion. The edges are fissured, and it is probably working waste. c 8x8x2mm.			
10621	Rectangular plate, complete as buried. One end is squared, the other may be deliberately shaped. It has two very small projections flanking a small, centrally placed, rectangular notch. The edge either side of the projections may be slightly concave. This is possibly part of a hinge, with the lugs cut off in antiquity. 47x29x4mm.	20		369
10627	Plate fragment, cracked and buckled. Roughly rectangular. It is unclear which edges were original. c 41x38mm.	20		369
10683	Padlock key, with a strip handle. The top of the handle is missing (fresh break). The bit is probably incomplete. L. 71mm, section 12x2mm.	21		370
10688	Lever lock key bit. The stem is recently broken, and flaking. The end of the stem is hollow. Surviving L. 70mm, bit 26x18mm. Pit 10763, Period V	21	x	370
11036	Sheet fragment? Very vague on the X-ray, and obviously very mineralised. c 28x25mm.	20		371
11156	Small lenticular plate. 22x13mm.	20		371
11329	Object. The X-ray was very faint, and it was not possible to clean the object as there was no good metal surviving. It appears to be a small block, hexagonal in section, and about 10mm thick. There is no central hole apparent. W. 19mm. Period II	20		371
13844	Small blade, resembling a miniature pruning hook with an open socket. The end of the socket is damaged, but the length may be complete. The tip of the hook is missing. Unlike pruning hooks, however, the convex (i.e. the outer) edge of the blade is the cutting edge, with a blunt internal edge. The shape of the blade is very similar to the post-medieval saddler's and harness maker's head knife (or heading knife) used for work such as cutting holes for buckle tongues, and which also has the cutting edge on the outside of the curve (Salaman 1986, 256 and fig. 9:7). L. 76mm. Pit 13845, Period III	10	163	370
13844	Irregular bar of constant thickness. One end is rounded, and the sides undulate. Probably working waste. L. 67mm, th. 7mm, W. 12-21mm.	15		370
13891	Triangular plate with slightly curved sides. The base was broken in a straight line in antiquity. The back is flat and the top slightly rounded. A lozenge-shaped hole pierces the middle. This is probably the terminal from an object such as a hinge or a bolt plate. L. 44mm, W. 29mm, th. 6mm.	20		370
15355	Sheet fragment, original shape uncertain. The sides have been folded to the centre, overlapping slightly, to form a flat	20		370

16073		envelope 55x42mm and 9mm thick. Two fragments of L-shaped bar, one lying nested inside the other. They are probably parts of the same flat-topped staple, with a rectangular sectioned top and tapering points. Both pieces have fresh breaks to the crossbar. One arm is almost complete. Assuming that they are the same object, the crossbar would be >45mm long. Section 13x5mm, surviving arm L. 47mm.	11		370
17033		Lump of working waste.	15		369
17033		Strip or bar fragment. 33x10x?mm	20		369

Box LIV

15006	SF4943	Knife, Manning type 11a. The point of the triangular blade is missing. It has a straight tang in line with the back, set into a curved antler handle. Little of the surface survives, but it originally had a polygonal section, probably octagonal. L. 210mm, blade L. 120mm, blade W. 35mm, tang L. 38mm. Pit 15005, Period VI	10	x	521
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HYEF 93 Box 13

(406 SF43 was Slag)

No con.	SF47	Bar fragment with traces of copper alloy coating. One end was broken in antiquity. Copper alloy coating is rarely found on Roman iron objects, and as this object is unstratified, it is not necessarily Roman. 63x16x7mm. Trench 3 Not on the database	20		227 506
No con.	SF51	L-shaped bar fragment, both ends broken. The longer arm has a slight regular curve perpendicular to its length. The end of the short arm is bent at an angle of $\leq 120^\circ$. Section 8x6mm, arm L. 90mm and 30mm. Trench 5 Not on the database	20		228 507
400	SF13	Bar, with a rounded section. The ends are turned at right angles, flattened and broken. L 72mm, section 7x8mm.	20		228 507
400	SF45	Strip, with old breaks both ends. It has two perforations and has broken across one of them. Possibly modern. 140x30x5mm	20		227 506
2100	SF41	Blade with a curved edge and straight back. It has a thick tang at one end and is broken across a ?hook at the other. It is possibly a bench knife, although the curved blade would be unusual, and this could just be a prong from machinery. It is more likely to be modern than Roman. L 170mm, blade max. W. 23mm, tang max. section 12x8mm.	20		227 506
2100	SF44	Bar with a square section, one end broken in antiquity, the other broken recently. L 265mm, section 9x9mm	20		227 506
2105	SF74	Fragment from the tip of a flesh hook. The prongs are short and straight, and the section of the bar is an irregular quadrilateral. Most flesh hooks have longer, curving prongs (as on the other illustrated example from Elms Farm), although the short, straight prongs are paralleled on a flesh hook from Stonea (Jackson and Potter 1996, 364, no. 27). L. 49mm, prong L. 9mm, section 10x8.5mm. SF2105, Fill 2105, Pit 2132, Area W, Period III.	4	x	227 506
2117	SF60	Strip fragment, probably from a drop hinge. It tapers, with the narrower end complete and the broader end broken across a curve. There are two rectangular perforations. L. 82mm, W. 15-23mm.	11		228 507

2117	SF75	Strip fragment with a right-angled bend, possibly from a corner bracket. In two pieces. TW. 24mm, L. of arms 21mm and 14mm.	20		228 507
2117	SF76	Strip fragment. It is probably a rounded terminal, the other end broken in antiquity, with a roughly rectangular hole punched through it. 38x23mm, hole 9x5mm.	20		228 507
2143	SF84	Bar fragment, one end possibly complete. The other was broken in antiquity across a rectangular perforation or slot. Section 29x7mm, L. 24mm. Perforation W. 6mm, surviving L. 6mm.	20		227 506
2321	SF94	Strip, in four fragments, in poor condition. One additional fragment was discarded, as it was entirely corrosion products. W. 23mm, original L. >110mm.	20		228 507

HYEF 93 Box 32

Trench 3	SF195	Sheet fragment, no edges. c 28x25mm.	20		225
U/C					510
Trench 3	SF196	Slightly tapering bar with a rectangular section. It has a right-angled bend. One end was probably pointed, but has recent damage. Complete as buried. L. 96mm, max. section c 12x5mm. Post-Roman?	20		227
U/C					510
33	SF210	Strip fragment. 42x18x1mm.	20		225
51	SF192	Bar fragment, heavily concreted. L 136mm	20		
515		Small, pointed, bar fragment with a fresh break. The section is rectangular, so this probably isn't a nail. L. 17mm, section 5x2.5mm.	20		512
2000		Tool, probably an awl, with the very tip missing and the butt probably incomplete. It has a notch with a V-shaped profile across one face at the butt end. The section is rectangular, possibly slightly rounded in the middle. Area D, U/S	10	x	230 511
2264		Possible small simple chisel blade, the shank slightly bent, and broken in antiquity. It has a narrow triangular blade. L. 23mm, blade W. 6mm.	10		512
2335	SF208	Block, almost constant thickness, but irregular in shape. Th. 11mm, c 52x23mm.	20		227 510
2548	SF131	Curved plate fragment, probably part of a cylindrical socket. There is mineralised wood on inner surface, but this is not definitely associated with the object. L. 42mm, diam. c15mm.	20		225 510
2738	SF206	Barbed wire? and staple. Horribly modern.	11		
3519	SF203	Curved, tapering, square-sectioned bar, end missing, with a broken, roughly rectangular plate at right-angles at the other end. L. 42mm, plate c 22x9mm.	20		225 510
3596		Unidentified object, in very poor condition. The centre of the object is a thin, roughly rectangular plate, with two 'tangs' springing from one of the longer sides, forming a non-symmetrical, very shallow V-shape. The ends of both 'tangs' are broken, though one appears to be coming to a point. This is possibly just working waste, not an object as such. L. 92mm, central plate c 18x14mm.	20		230 511
3631		Nail shaft? With slag.			
3752		Strip fragment, complete as buried. The ends are rather vague on the X-ray, and this may be complete. There is a circular hole in the centre, diam. 3mm. L. 32mm, W. 25mm.	20		229 512
3754		Curved rod fragment, with a circular section. One end has a fresh break. L. 20mm, diam. 4mm.	20		511