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AM No	X-Ray No	Photo No	Description and Report	Ref	No
516 741721	ina alam dang terpa dang terta dang terpa dang dang terpa dang terpa dang terpa dang terpa dang terpa dang ter Panang terpada t	Draw	Fragment of leather belt; one hole and one curved cut - reason not apparent. 70mm. x 45mm. (with bevelled edge)		-
801 741722		Draw and phpto. from top with vamp in position	<u>Two shoe sole units</u> , probably a pair; heavily nailed and the right foot with vamp and quarter remaining; very deteriorated. <u>Right foot</u> - a three-piece unit consisting of insole, middle and sole; nailed and thonged.		
			most of the nails are now missing but large hold remain; also the central thonging at several places joining insole and middle and appearing as long stretches on the underside. The <u>middle</u> itself has largely disappeared even though the thonging remains. The fragmentary <u>vamp</u> has a wide lasting margin ranging from c. 15mm. Ato 45mm. in the inside waist and there are large holes in it where the sole nails penetrated and some smaller ones, possibly where bracing	es	
			thread was used in lasting. The threat of the vamp is too deteriorated for its shape to be determined. Only a small portion of the quarter (or back) remains but it shows the asting margin with holes as before. <u>The sole</u> has the seat missing but the <u>insole</u> is complete even though the seat is now detached Some extra boles in this cost are 97.	1	•
			Some extra holes in this seat near/the outside edge man be inside probably show where extra reinforecement nails were added to combat wear. Left foot - now in two parts, very deteriorated presumably the fellow of the previous one but it is not very obviously left or right; toe and seat missing. It is also not certain how the two parts fitted together. Sole: very heavily nailed. Due to delamination	· · · · · · · · · · · · · · · · · · ·	
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AM No	X-Ray No	Photo No	Description and Report	Ref	No
801 741722 (cont.)		Draw sole to show nails Draw edge to show laminae	woon (000) - original each	วกร	
			economy; several thing layers are thonged and then nailed together to make a solid shoe bottom.		
8D2 741723	an pya kan tau tau tau tau tau tau tau ta	Photo.top to show vamp (stuff it to raise it)	Shoe forepart; a nailed sole unit with vamp in situ, right foot. The upper is still lasted at the inside joint; theouter edge has deteriorated and no longer meets the sole. <u>Vamp</u> : has a central decorative thonging, "stitch" length c.6.0mm.; width of thong: 1.7mm		-
		X-ray to show nail shapes;	<u>Sole</u> : heavily nailed (see diagram for pattern) width: c. 90mm. <u>Middle sections</u> : precise number difficult to determine bevause of delamination of sections. <u>Insole</u> : shows slight toe "inlets" at the outside edge. ( Suggest conserve this specimen with clay left inside edge to prevent remains of upper coming		
			тизтое елде со ртелени тешатия от пррет соютид	away)	) <sup>1</sup>

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AM No	X-Ray No	Photo No	Description and Report	Ref No
803		na generale ne da tra da fa da Taña Alla da Alla da Constante en de Aldan	<u>Two sole fragments</u> : (a) waist portion,	e la fa a anna an ann an ann ann ann ann an
741724			(b) seat. Both are parts of a typical bottom	
$< t_1 t_2$			unit with several layers of leather, heavily	
			nailed and, in the case of (a) also thonged	
 		Draw to show nail andthong.	s from h and economic show 1	asting
:			o margin upper	and ner in
			The seat still has the remains of the lasting	
			margin of the upper and the stiffener in situ.	
			The position of maximum wear indicates that thi	6
			seat portion came from a right foot shoe.	
•			(a) and (b) may be parts of the same shoe.	
			Width of seat: 80mm.	
804 741725			Seven fragments of narrow leather strips. Five of these with an overall length together of 380mm. and an average width of 6.0mm. may be a thong used for joining together sole sections to form a unit. One of these pieces tapers and may have been the pointed end for feeding through the thomg holes. This piece als has a slightly serpentine shape with regular indents suggesting it has been in a shoe. A very small piece appears to have been torn away from a line of stitching as it has "half holes". Another piece c. 20mm.x8.0mm. has thre stitch holes with a stitch length of c. 6.0mm. It may be a fragment of upper	
805 741726	6	Draw	<u>Strap end (?)</u> . P <sub>o</sub> ssibly the seat of a shoe ins or middle neveractually used in a shoe. No nai holes or other distinguishing features apart f a small hole right on the edge. 75mm. x 40mm.	rom

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AM No	X-Ray No	Photo No	Description and Report	Ref No
1178 741693		Photo & draw to shoe nailing pattern (draw thongs)	Sole unit; right foot, heavily nailed. Worn away under ball of big toe and outside back of seat; surface deteriorated particularly of the sole, the insole having a clear grain. Inside edge is cut, outside edge deteriorated. There are probably several layers but it is difficult to distinguish original sections from laminae produced by deterioration. Some evidence of thonging in the centre. Sig trace of the lasting margin of the upper quarters and stiffener in situ at seat. The nails are very much encrusted. The heel seat haswhat appears to be interlaced thongs, 3 - 4mm. wide, forming a mat, also two nail holes; these thongs may be the ends of those used to combine the various sections of the unit.	nt
			Length: 260mm. (toe/extremity of worn seat; width: c. 95mm. About size 6 in modeen adult sizes. There are also a few fragments withthis specimen, possibly pieces of upper	
1179 741694 1180 741695		Draw to show nailing pattern	<u>Toe-end of nailed sole unit</u> from a broad, large sized shoe (judging from the toe shape) The centre has a cluster of smaller nails <u>Fragment</u> , possibly part of the lasting margin of quarter and heel stiffener, The turned-up edge has several layers and some holes. Very deteriorated.	
casor Actor actor train (tran kantr ac	مريض 1999 موجد إيشار شميل شريق موسية خالية مراجع مريدة الا	ani kasa uma maso poto 4000 8000 nain main kate 600		and a series range and a series of the series and

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AM No	X-Ray No	Photo No	Description and Report	Ref No
1181 741696		Draw grad grad after the parts have been placed together (Der JHT)	L ROMARO-BETTIER SONAS, LHA TO DETERIOPATION IT.	low es); dge Omm. s s.
1182 741697	rank ann an an an an an an an an	Draw with insa and thong on top	<u>Insole</u> from bottom unit of sandal with parts of another section and toe-thong remaining. The thinness and lack of wear at toe and heel suggest that this not the sole itself but an that this not the sole itself but an the under-ends of s carries/a double toe-thong. An impression	toe∞entd

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Communication and a state of the				gun and a state of the second s
AM NO	X-Ray No	Photo No	Description and Report	Ref No
118 <b>2</b> 741698 (cont.)	toethang	impression Detecting mergin - Chong Lotes	of the upper lasting margin remains all round, c. 10mm. wide in the waist and 15mm. at the set Many nail holes and some close pairs of holes where thonging was inserted to hold the Various bottoming sections together. On the grain side the the remains of the toe-thong can be discerned . Length: 245mm.; width: 80mm. About size 4 (adu (see 1183/741698 below)	ı just
1183 741698	Jin o	Draw	Waist portion of sole with a narrower middle; toe and seat missing; also a piece of upper lasting margin. This specimen fits exactly to the previous one, the nail holes and margina depression coinciding. The holes are larger an rounder than in 1183/741698 suggesting that the nail heads were resting on this section and passing through the other one. The two specimens together indicate a right-foot shoe. What is apparently part of the upper lasting margin, curved with nail holes, remains at one place; these holes correspond to those on the previous section and the cut and scalloped edge on the inside of the curve probably indicates where string was used during the lasting proces The position of this piece of upper presents something of a problem since it appears to come from near the toe-end of the shoe suggesting th the shoe had a fairly complete upper and was not of the sandal type as the toe-thong would suggest. A toe-thong sandal would normally	d S.
		(Draw 118	have/wide instep band (see sketch) to which the thong would be attached; possibly the last margin were part of such a band 2 and 1183 side by side	ing

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AM No	X-Ray No	Photo No	Description and Report	Ref No
1184 74169 <b>9</b>		Draw to show curve	Two fragments of leather: (a) Roughly rectangular, c. 120xx 60mm, with a turned-in edge carrying nail holes and also	8
		(in 1996 and 1993 and 2006 period and 1996 and 1999 and 1		Till way

MATERIAL Leather

AM No X-Ray No Photo No Description and Report Ref No Forepart of left-foot sole unit; heavily nailed 1185 and very deteriorated. Most of the actual sole 741700 itself has gone but some of the middle and most Photo. & of the insole forepart remains. The mail heads are very corroded and one small nail remains X-ray to nail pattern; loose in its hole and shows the characteristic also draw small curvature of the shank due to its being driven nail through the leather on to an iron last; it is not certain whether this nail has lost its head or has a very small one. 170mm. x 100mm. Waist and seat of a sole unit, heavily nailed. 1186 741701 Probably the remainder of 1185/741700. The specimen includes sole, middle (possibly several layers) and remains of upper, stiffener and insole. The heel seat has its nails set in a circle although some have now disappeared and is worn away at the usual places - the outside corner (left side of left shoe) 🧀 1185 and 1186 together give a bottom unit c. 265mm, long, about size 6 (modern adults) Draw 1185 & 1186 together - both sides 1187 Waist and forepart of nailed sole unit. 741702 Several layers some of which may have been produced by delamination and are not original Draw to show nails sections . There appears to be two sizes and X-ray to show of nail but this be a corrosion effect. nail sizes. 160mm. x 105mm.

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AM No	X-Ray No	Photo No	Description and Report	Ref No
1188 741703			<u>Shoe bottom</u> , right foot, seat missing and very deteriorated. Heavily nailed in four parallel rows in waist and a scatter in the forepart; many now missing but those remaining are not	nna ny kaodim-paositra dia mangka kaodim-paositra dia kaodim-paositra dia kaodim-paositra dia kaodim-paositra d
	Draw both and X-ray	sides	very corroded. The insole still sows a clear grain surface abd a cut edge at some places. Fragments of the upper still remain sandwiched between sole and insole particularly along the inside edge of the unit. Present length: 230mm; width: 105mm.	
1189 741704	Draw a ni	11	Sole fragment, very deteriorated, with nails some of which are now detached and show the typical curvature of shank and in one case a square pyramid head, c. 5.0mm. x 5.0mm. x 3.0mm. high.	
1190 741705	fan dan fiyi Gu		<u>Fragments of a sole unit</u> , probably the forepart very deteriorated with some nails in situ and nail holes. Two sizes of nail some smaller ones being near the centre of the sole	gg
1191 741706	Draw gra:	n up	<u>Insole</u> , left foot, toe-end incomplete, with nail holes along the margins, down the centre scattered at the seat; one nail left in situ with traces of sole surrounding it. The grain side (uppermost in the shoe) is still smooth. The flesh side shows the impression of the middlesole and/or the lasting margin of the upper. The insole is concave across probably to body weight in wear. 225mm. x 95mm.	
1192 741707	Draw gba to show p		Shank from a shoe bottom, cuneiform shape, with fragments of sole adh ering; nail holes and some nails. This component was inserted betwe the lasting margin of the upper after lasting,	en (cont.

MATERIAL Leather

AM No	X-Ray No	Photo No	Description and Report	Ref No
1192 74170% (cont.)	<b></b>		resting on the insole and filling up the space It also served (as in a modern shoe) to give rigidity to the waist and so prevent bending in this area during walking.	
	:		Length: 125mm.; width at rear end: 40mm. tapering to c. 25mm. at front end.	e und heft kun dety und
1193	and also	hoe quarter underneath	The bottom unit is the usual type with several layers from insole to sole, heavily nailed particularly at the seat. There is one very large square headed nail, present size 10mm. × 10mm. <u>The quarter</u> fragment is c. 35mm. high (above to lasting margin) and is very important technical since its top edge is <u>folded</u> (as in modern shoes) the width of the folded-over margin being c.5.0m It/ <sup>23</sup> Stitched along the fold about 3.0mm. from the edge with a stitch length of 3.0mm 4.0mm. (difficult to determine accurately); there appead to be traces of thread still remaining in some	y m.
	Can threa identifi	A	of these holes. About 3.0mm. below the line of stitching there is an impressed line, presumabl decoration. This is the first recorded example known to the	У
444 444 449 449 449 149 149 149 1 1194 744700	in type Gray Hers may and, sing these type to a	andra dagi dagi kala kala dagi mur guna juga pagi at	writer of a folded and stitched top edge in a R.B. shoe Insole seat with shank end and part of quarter	
741709	Draw from	side to	and stiffener in situ, probably right foot. The seat has some nail holes and one clean cut	

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AM No	X-Ray No	Photo No	Description and Report	Ref No
1194 741709 (cont.)	quarter from unde	rneath to ing margin	edge, the other being deteriorated. The quarter is probably an inside one (left side , of right shoe) is very deteriorated and the stiffener, in better condition, continues with it for a short distance round the back of the	
			<pre>insole. As normal, the stiffener has its grain side inwards (next to the foot). The lasting margins of both quarter and stiffener are mitred and some grooves across the shank end and the margins probably indicate where the bracing threads lay. Length: c. 90mm.; width: 50mm.; height at back: 50mm.</pre>	
المتباد فاقت والعاد والمتار المتبار المتبار المتبار المتبار	allig way was indet title kan ware jeje dan een a	95 4887 899 691 812 818 707 919 919 144 40		yang dang
1195 741710	Draw na	ls up	Three sole fragments, heavily nailed and very deteriorated. May be part of the same shoe - forepart and seat as the latter section shows traces of the quarter/lasting margin; also a cut edge as for an insole seat.	
1196 741711	Draw	an and and the form and for any for and the set and	Four fragments: (a) A triangular piece of cutting scrap with curved edges showing where shoe sections have	
			been cut as close together as possible leaving only the "unavoidable waste" between. 10mm. x 10mm. x 9mm. (b) A square piece, c. 40mm. x 40mm., cut edges	2
			with a small fragment thonged to it at one corner on the flesh side (c. 2.0mm. wide) This thong continues round the other edges and there is a slight indication of diagonal	
	Draw to	show	grooves on the surface. One corner is missing but the opposite corner is cut and the thong	
	thongir	:	follows it. As there is no hole in the centre it seems improbable that this piece was a button or toggle. Use unknown.	

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AM NO	X-Ray No	Photo No	Description and Report	Ref No
74171 (cont.)	na konstant (na min Vascan barcan antana bara)	Allen of a special management of an alternative special special special special special special special special	(c) and (d): two fragments of a bottoming	
(201101)			section with nail holes; probably interlayers	
			between sole and insole or laminae from sole	
الترك حصد زمارة عمادة طلكم برعري وسع وغرب	والمحافظ والمحافظ التنت التركم والمحافظ والمحافظ والمحافظ	1/20- 1/201 1/212 1/210 1/214 1/214 1/214 1/214 1/214 1/214	or insole.	y soor also wax with 4514
1197			Fragment of strap, 105mm. x 26mm. widening to	
741712			30mm. at one end; both ends now torn.	
1		There are	several holes, including three across, but it	
			is not clear what purpose these served. A	
• •		-	depression c. 5.0mm. wide runs down the centre	
			of the grain side and a slot and a hole. (possib	ly
			an enlarged slot) suggests that a thong went	
			down here. This in conjunction with the	
en La secon	Draw to depressi		widening end may indicate that the fragment	
	· · ·		is part of a shank (see74/707above) thonged in	
			with the other bottom sections.	
ورزون الكن والجز والعرب متحد والمرار برامار بالم	a 2020 with wire there and also such that the	teriy waw duni tirk kini Kini kan dan tirk kan mu		1 2010 LAG
924				
741728	Draw	(JHT Will	<u>Heel soat</u> with remains of quarters still	
	reassem	ble)	attached and sandwiched between insole seat	
			and sole seat; four nails still remain.	
· · ·	$\bigcap$		Very deteriorated. The remains of the stiffener	
· · · · ·			may also be present but the overall deterioration	n
	2 miles	100/	is so great that separate laynes are almost	
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	indistinguishable.	
·			Width of sole seat: c. 45mm.; height of	
ومستو بنجمو وجادة الجربة بجرجو أجانب برورك بدور و			back of quarter; c.35mm.	
925	1		Part of shoe upper with turned-in lasting	anua anu pau ani
741729			margon and holes where the nails penetrated	
			securing the upper between sole and insole.	
	Draw fr	om under	One of these holes is quite small as originally	
	to show	turn-in	made but the others are now large as where	
÷ .	-id		the nail heads which produced them by corrosion	6
	(F)		The present curvature of the turned-in edge	
	1		suggests that this piece came from the forepar	
4 A.		8		9

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AM No	X-Ray No	Photo No	Description and Report	Ref No
741729 (cont.)			of the shoe, possibly part of the vamp. 100mm. x 70mm.; width of lasting margin: 20mm.	
926 741730	Draw		Portion of shoe middlesole (?) ; one cut margin with large holes along it and a piece of thorg through one hole. and xan ximpressions. The thinness of the section, the large holes and the impression of the upper lasting margin parallel to the edge and c. 15mm. to 25mm. from it, all suggest that this was a middle or intermediate section placed between sole and insole, all three sections being nailed -nailed together. One end has an additional small piece thonged on by the usual type of ribbon thong. The presence of the other thong through a hole; is something of a mystery; it is quite stout, c. 3.0mm. x 3.0mm., which is rather too thick for a ribbon thong as mentioned above used to unite thin sections; possibly it was part of a "do-it-yourself" repair (similar pieces of thong eccur in mediaeval shoes). Section: 125mm. x 50mm.; thong: 80mm. x 3.0mm. x 3.0mm.	
927 741731	Draw to thong <sub>e</sub>	show	(?) <u>Fragment of shoe middle</u> with thong in situ (*) Very thin and deteriorated but has a cut edge. Holes and a ribbon thong suggest that it is pa of a middle section between sole and insole. May be associated with 741730 above. c. 80mm. x 50mm.	
928 <sub>3</sub> 4. 741752	ang man man nan nan ang ang ang ang ang ang ang a	ga ang mag gang kang kang pang pang mang ang pang	Fragment of a shoe bottom unit (?); possibly a piece of a middle sole. Some nail holes nea the cut edge and impressigns of a lasting marg	

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AM No	X-Ray No	Photo No	Description and Report	Ref No
929 741733			<u>Fragment</u> , very thin, with some slotted holes. May be part of a middle section from a shoe bottom. c. 75mm. x 50mm.	
930 741734	ື່ນງາຍ		<u>Thong</u> , with hooked end; curved cross-section with the flesh inwards. Possibly a thong fro a shoe bottom used to unite the various components. c.80mm. x 6.0mm. x 1.0mm.	1
931 741735			<u>Six scraps;</u> one may be part of a thong or stra and has a pointed end; 60mm. x 13mm. at wide end and 1.0mm. thick. The other scraps may be part of a middlesole or intermediate bottom layer.	
953 741736	Draw to s nail hea		<u>Fragment of shoe bottom</u> , Very deteriorated ; with holes and some nails in situ. The usual multi-layer construction with sole, middle and insole although deterioration makes it difficu to distinguish one layer from enother. No original edges left. 105mm. x 72mm.	
954 741737			Waist part of a shoe bottom , very deteriorated has fragments of sole, middle and insole, and thonging and one nail; also what is possibly the upper lasting margin; several large holes have presumably been caused by nail corrosion. The remaining nail with its head shows which is the underside of the section and that there is very little of the original sole left. The middle section still retains its cut edge and includes part of the seat. Some thonging passes through holes in the margin of this section and in two places also	
			passes through holes in what appears to be the upper lasting margin. This may possibly	

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AM No	X-Ray No	Photo No	Description and Report	Ref No
741737 (cont.	Fraw to s (see JHT)	how thong	indicate that during the lasting process the upper margin was drawn inwards over the edge of the insole and then thonged to the insole (or middle) to hold the upper in position until the sole was attached. Other Romano-British specimens have shown the impressions of bracing threads passing from the upper margin on one side to the opposite side but this specimen appears to use a different process having the margins thonged to the insole rather than to each other. However, this is not positive since it is not certain that the side section is lasting margin; it may be another bottoming section.	
955 741738	64 auna mis trat anti anti anti anti anti anti anti	ene and gin gin gin the set and and set in the two	Fragment of/ <sup>a</sup> hoe bottom; usugal multi-layers with nail holes. 85m m. x 45mm.	
956 741739			Fragment of a shoe bottom component or a lamina from one. Large holes caused by nail corrosion. 80mm. x 60mm.	
957 74740	Draw fro sides.	n both	Seat and part of waist of a bottom unit; usual multi-layered unit with possibly part of the upper lasting margin . Many nail holes and five nails remaining; also some thong holes. The insole edge is still quite well defined but the other edges are very deteriorated. The position of maximum wear at the back suggests that the <b>Aragment</b> piece may come from a left-foot shoe. 105mm. x 70mm.	
958 741741	na uno aver ford ford form and alle aver aver	inter gift gung gigt sint men nak tid gigt gist me	Bottom unit, almost complete, comprising a sole (very deteriorated), middle section and insole; it appears to be a right foot with the inner margin nearly the original one	

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AM No	X-Ray No	Photo No	Description and Report	Ref No
741741 (cont.)			although the outer margin is very deteriorated. Heavily nailed along the margin, a scatter of nails in the tread and an almost circular patt at the seat.; some thirty nails still remain.	
	Deaw fron sides to (a) nai:	show	There are also remains of the upper lasting margin towards the rear and possibly part of the stiffener; the seat end of the shank	
	pa	· ·	is also visible. The inside margin of the insole is now about 15mm. inside the sole margin which is excessiv even allowing for the thickness of the upper; although the insole margin appears to be the original one it may in fact have been broken off as there are half nail holes along it; alternatively the sole may have been made deliberately very much wider for the sake of appearance (as in some modern shoes). A broad piece of thong was found adhering with mud to the toe-end of the insole in the place where a toe-thong, if used, would normally be attached; this seems to be fortuitous however as all the holes in this area appear to be for nails and not thongs. 237mm. x 38mm. The insole length corresponds to a modern size	
959 741742	Draw bo	th sides	of 3 (adults') <u>Forepart and waist</u> of nailed shoe bottom unit comprising sole, middle and insole; very deteriorated. It may be part of the fellow to 741741 and again the inner margin of the insole comes well inside that of the outsole (c. 10mm.) Five nails remain in holes. 160mm. x 79	
960 741743	Draw bot		Heel seat of bottom unit, comprising sole and insole seats with other layers between;	

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AM No	X-Ray No	Photo No	Description and Report	Ref	No
741743 (cont.)	to show	insole	nailed and thonged together. There are three possibly four) nails in situ and one thong whi may have been used in lasting (see 741737 abov there is also a trace of thonging down the centre. Since this section is worn away most at the left corner of the back at may come from a left shoe. 85mm. x 65mm.	Ι.	
961 741764			<u>Small <del>sels</del> fragment</u> of sole unit with two nails; one cut edge remains. Probably part of a middle section. 85mm. x 50mm.		
962 741745			<u>Small fragment of a shoe bottom component;</u> one cut edge and large nail holes; very thin. 80mm. x 22mm.		
963 741746			<u>Fragment of shoe bottom component</u> , part of forepart and waist; nail holes. 115mm. x 75mm ( <u>Note</u> : there is an insect resembling an earwi in the mud attached to this specimen)		• •
964 741747			<u>Small fragment</u> , with a curved cut edge and several holes. Probably part of a shoe bottom section. 50mm. x 45mm.		
965 741748			<u>Small fragment</u> with nail-enlarged holes; probably part of a shoe bottom section. 50mm. x 25mm.		
966 741749			<u>Small fragment</u> , no obvious features but probably part of a shoe bottom section. 55mm. x 35mm.		
967 741750	en mage soud total field divid divid for the source and a	gener fine min find find find gene over each in	<u>Small thin rectangular fragment</u> with no identifiable features; all torn edges. 50mm. x		n <sub>ø</sub>

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AM No	X-Ray No	Photo No	Description and Report	Ref No
968 741751			<u>Small triangular fragment</u> , no identifiable features; all the edges torn. 70mm. x 52mm. x 52mm.	
969 741752	Draw		<u>Small piece of stitching margin</u> with scalloped edge and stitch holes, c. 5.0mm. stitch length The cross-section curvature is reminiscent of the turned-in edges of the uppers of mediaeval stitched turnshoes but the writer has not previously found a RomanO-British example. 50mm. x 15mm.	
970 74 <b>17</b> 53		<b>19 113 114 114 114 114 114 114 114 114 114</b>	<u>Fragmen</u> t with one cut and curved edge; no identifiable features. 100mm. x 30mm.	
971 741754			<u>Verysmall fragment</u> with one cut edge and and possibly two nail holes. Probably part of a shoe bottom section. 30mm. x 20mm.	
972 741755			<u>Small fragment</u> , all the edges torn; no identifiable features. 60mm. x 15mm.	
973 741756	nen esa qaf kal jur un aŭ en lin kin k		Two small pieces of thong; (a) 18mm. x 3.5mm. (b) with a bend in it: 35mm. x 2.5mm. Very thin and probably used for thonging together the bottom sections.	
9 <b>74</b> 741757			<u>Thong</u> (?); Very narrow (c. 1.0mm.) and 40mm. long. Under a surface microscope it shows longitudinal striations. (Examine under greater magnification to see whether it is in fact leather)	
975 741758		Hann Hann Sind And And Hann Ann Ann Ann Ann	<u>Thong</u> (?); very narrow (less then 1.0mm.) and 35mm. long. Similar to 741757 and shows same striations.	ат ада -

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AM No	X-Ray No	Photo No	Description and Report	Ref No
976 74 <b>17</b> 59			<u>Very small fragment</u> with no identifiable features. 30mm, x 13mm.	
9 <b>77</b> 741760	and and the two two and the first and the		Very small freqment with no identifiable features. 35mm. x 20-30mm. Also the remains of an insect (see744746 above)	
978 741761	ang	, , , , , , , , , , , , , , , , , , ,	<u>Very small fragment</u> with one cut edge, iron rust and evidence of holes. Probably part of the edge of a middlesole of a nailed shoe. 55mm. x 10mm. (max.)	
9 <b>7</b> 9 741762	Oraw S	C. C	<u>Very small fragment</u> with the remains of three nail holes and two thongs holes with grooves running into them from one edge which is serpentime. This is probably part of the lasting margin of a shoe upper, the wavy edge and thong holes showing how the upper was brac across the insole during lasting we before the sole was nailed on. 35mm. x 15mm.	e d
980 741763		an man pen data data data data data data data dat	<u>Very small fragment</u> with corroded nails in situ; part of a sole. 40mm. x 15mm. (max.)	ана (ма 1
981 741764			<u>Very small fragment</u> with some evidence of holes. 25mm. x 11mm. (max.)	
982 741765			<u>Very small fragment</u> , triangular shape, probabl part of an upper but no identifiable features. 35mm. x 35mm. x 25mm.	
983 741766	name have a general trace from their failer trace and	ng mang kan dan sela sela ng pag pag kan dan dan sela sela sela sela sela sela sela sela	<u>Very small fragment</u> with all edges torn and some evidence of nail holes. 45mm. x 15mm. (m	ax . )
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AM No	X-Ray No	Photo No	Description and Report	Ref No
984 741767			<u>Small fragment</u> , diamond shaped; one edge may may be a cut one and there is a hole apparent intended for a thong and also some evidence of other holes and grooves. Possibly a fragme of an insole. 45mm. x 35mm. (diagonals)	
985 741768			<u>Small fragment</u> , diamond shape; some evidence of a cut edge and nail holes. Probably a bottoming fragment (middle or insole). 45mm. 35mm. (diagonals)	
1528 741769	Draw f show tho	lat to ng holes	<u>Shank</u> (or other filling section) from a bottom,with thong holes. This section fitted in between the upper lasting margin in the waist and seat area to fill the cavity caused by the thickness of the upper. 35mm. x 12mm.	
1529 741770	Draw (from b booton	elon) gnavie Löp De boston	Fragmentary remains of quarter and stiffener, probably from a left-foot shoe. The quarter has no original edges left but the stiffener, of thicker beatber, has a quite definite cut edge. Traces of nail holes are discernible in the remains of the lasting margin underneath and the fore-end of the stiffener has a very sharply defined turn-in, and a blunt front edge (see: "Leather found in Mediobogdum, the Roman Fort of Hardknott" by Charlesworth and Thornton, "Britannia", Vol.IV, 1973) 100mm. x 70mm.	
74668	generin dinko aren arak tanin uza kinar uza kinar dan di	(h bit fiéd can non ann bit) gan son lam din	a pair of <u>Fragmentary remains of a/shoe bottom</u> ; about 18 pieces including parts of insole, middle, lasting margins and some thongs in situ:	

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AM No	X-Ray No	Photo No	Description and Report	Ref No
74668 <b>4</b> (cont.)			(a) <u>Insole</u> : waist and seat only; delaminated with a few rather indeterminate holes and some lasting margin impression underneath.	dan mila kali Mera (ke Kalendari ya ku kali kali kali kali kali kali kali kali
	Draw		135mm. x 53mm. (48mm. across the seat)	
			(b) <u>Insole and middle section</u> : seat and part of waist only with complicated criss-cross	
			thonging underneath, some of which appears to be for ross-bracing during lasting and some for holding bottoming sections together	
	Draw to sl		as it appears on the top side (grain). There are slight traces of upper lasting margin	
	thonging		with nail holes round it. Surface delaminated. 120mm. x 45mm.	
			(c) <u>Waist of insole</u> : with the <b>wide</b> overlapping ends of a wide lasting margin (c.30mm.)	
	Draw to si and thong	iow margin holes	and bracing thong; also nail holes. May be part of same bottom as (a) and (b).	
	Dreiteani		(d) <u>Toe-end of sole and insole</u> , probably the former; some original nail holes and signs of repair (smaller holes). There appear to be	
	Draw gra:	и аh	two layers which could be either sole and middle or a delaminated sole, probably the	
	0		former. May be associated with the same bottom <b>as</b> the previous specimens. 41mm. x 56mm	<b>8</b>
			(e) <u>Portion of upper lasting margin</u> , with one origianl cut edge, now scalloped by the	
			bracing thong (holes c. 9.0mm. apert), and the other torm. The present curvature and variatio	1
			in width suggests that this piece came from the waist, joint and possibly part of the toe area of the shoe bottom. c.115mm. x 25mm.	
			(widest part) and 11.0mm. (narrowest part) (f) <u>Various fragments</u> (12 main ones) with	
			holes (nail and thong); appear to be parts of	- -

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AM No	X-Ray No	Photo No	Description and Report	Ref No
74668 <b>4</b> (cont.) 746685	Draw		lasting margins and bottoming sections, presumably parts of the same shoes as the previous sections (9) Fragment of sole with two large nail hole enlarged by corrosion; one edge may be a cut one. Delaminated. 65mm. x 47mm.	anneren (in 1999 - 200
746686		ang	Fragments of shoe bottom with nail holes; very deteriorated; no cut edges. 70mm. x 45mm	(max.)
746687	Draw bo	th sides	Shoe bottom, icomplete, most of forepart now missing; probably a right foot. It consists of insole, middle sections and sole (from which the seat is now missing); all very deteriorated There are several nails in situ showing the usugal corrosion and also empty holes; also some evidence of thonging. The nails appear to follow a line down each edge with others apparently set at random further in and at the seat. The grain surface of the insole is in verygood condition. 175mm x 87mm. (fore-end) x 55mm. (seat)	
746688	Draw bo	th sides	Seat and waist of shoe bottom, very deteriorate insole, middle, upper lasting margin, stiffener and sole; heavily nailed. The nails are set down each edge and down the centre forming a group of three across; about seven still actually remain, the holes marking the position of the others. The insole surface is more deteriorated than in 746687 but both may belong to the same pair of shoes. 135mm. x 60mm. (fore-end) x 60mm. (seat)	
746689	Series 6946 silir gay jugo and kap gad kas and	<b>2010 1120 0110 0110 1110 1110 1110 0110 0110</b>	Part of upper quarter, stiffener and fragment of sole. The piece is the left-hand side of t	- he

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AM No X-Ray No Photo No Description and Report Ref No 746689 of the upper and may therefore come from the (cont.) right shoe, the outside sections of which have now disappeared. It still retains its moulded shape round the back of the heel and underneath where lasted in; large pleats still remain here. There are at least two complete nails with large heads and the curved point of one shows very prominently on the inside surface although the insole on which it was originally clenched Draw to show has now gone. Some grooves on the lasting moulding margin may indicate where the bracing thongs 🖌 lay. Length, front - back curve: c.100mm.; Height, top to turned-in edge: c.35mm. 7466**83**A Nailed shoe bottom with part of quarter and stiffener, left foot. The bottom unit consists Draw both sides of an insole, and an intermediate of A and B layers and a sole; the number of the interlayers together is indeterminate due to delamination but the overall thickness of the whole unit is c.11.0mm. It is heavily nailed with most of the nails still in position; there is marginal row of about 50 spaced at c. 15mm. intervals; an elliptical in the forepart pattern/of c. 36; a group of 4 in the waist and a more or less circular scatter of c. 14 a the heel seat. This gives a total of c.100 nails for one shoe alone. The nails have roughly square pyramidal heads and square shanks

square pyramidal heads and square shanks curved by hammering on to an iron last, the turned points being very prominent on the insole.

Thonging just shows at toe and seat. The quarters, still nailed in position, are very fragmentary, the remaining part apparently being the same shape as the stiffener which

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AM No	X-Ray No	Photo No	Description and Report	Ref No
746663 A		anija <u>n terma kana kana kana kana kana kana kana ka</u>	protected them; although the centre of the back	
(cont.)			is a peak, this is the stiffener shape and	
			not the original shape of the top of the	
			quarters which cannot now be dtermined.	
			Length of insole: 265mm. (c. size 6 adults');	
			width across tread: c.95mm.; height of back	
			to peak: c.50mm.	
746663 B		· · · · · · · · · · · · · · · · · · ·	Nailed shoe bottom with part of upper remaining	
		· · ·	at inside waist; right foot. Presumably the	
:			fellow to 746663 A but in a poor condition.	
			The unit is similar to A consisting of an	
	~		insole, several intermediate layers (may	
			be three) and a sole. It is heavily mailed	
			in a pattern corresponding to A with a	
			marginal row, am elliptical spread in the	
			forepart, a group of four in the waist and	
:			a circular scatter at the seat; more nails	
			are missing than from A. The insole has the	
			usual nail points and two places, toe and seat,	
			where thong/shows (for joining the various	
. •			sections). The toe-end of the insole has worn	
		-	away and has also delaminated at the outside	
		- -	joint.	
			Although there is only a trace of the quarteps	
			and stiffener remaining at the outside seat,	
			a small triangular piece of upper also remains	
			at the inside waist; its rear edge has a few	• ••
			edge/flesh stitch holes, c. 4.0mm. stitch	
			length,indicating that it was joined to bhe	
			quarter here and that the original specimen	
			was probably a low boot rather than a shoe or	
			sandal with open sides. The front edge of this	
:			remaining upper fragment is torn. c.240mm. x 85	111.
			There is also a detached fragment of thin leat	er
			c, 65mm. x 55mm. with a finely scalloped edge	
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ÀM No	X-Ray No	Photo No	Description and Report	Ref No
746663 B (cont.)		u)	and a few holes. It appears to fit very roughly to the back of the remaining attached section of upper just described and s	þ
Loose	Oraw in (see JH	position T)	may be part of the missing quarter.	
			DRombon 31/3/75	