

ANCIENT MONUMENTS LABORATORY

INTERIM REPORT /

A.M. No.

This report is sent to keep excavators informed of the progress of work on their material and is not to be considered as necessarily representing the final conclusions on the work reported. Thus the Chief Laboratory Officer should be informed of any intention to publish information given in an A.M.L. Interim Report so that he may advise as to its suitability for publication.

On completion of an investigation, a formal report, correlating the information notified in any Interim Report will be prepared by the Laboratory. This report may include a revision of conclusions previously notified.

SITE CARLISLE Roman

EXCAVATOR

D CHARLESWORTH

This report shows the progress made to date with the study of environmental samples submitted to the Ancient Monuments Laboratory. General comments on these results will be included in the full report by A. Donaldson (Durham). More detailed discussion might be possible if further details could be made available to show which samples originated from the same deposits, etc.

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:..... CARLISLE (1972) (DATE:)
 SHEET: 1

AM No	Excavator's Comments	Description and Report	Ref No
None	Soil attached to leather. Any interest?	Samples not worthy of investigation	
None	Plaited fibres for identification	Awaiting examination	C72/A
728718	Identify wood and then staining	<u>Acer</u> spp - probably <u>campestre</u> ¹ (Report sent previously).	C72II/S
730430	Carlisle City Ditch 1972 Identify wood, if it is wood. If not, what is it?	Not yet examined	Trench 2

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:..... CARLISLE (1973) (DATE:)
 SHEET: 2

AM No	Excavator's	Comments	Description and Report	Ref No
730430	Trench 2.	Can you identify wood (if it is wood) If not, what is it?	Not examined	
737202	Wooden spade -	identify wood and preserve	Not examined	
737203 -35	Wood		Report sent previously (copy included here) ⁷	

ANCIENT MONUMENTS LABORATORY

MATERIAL	WOOD
----------	------

CARLISLE

SITE:..... (DATE:)

SHEET: ... 3

AM No	X-Ray No	Photo No	Description and Report	Ref No
737203			Ash	194A
737204			Ash	194B
737205			Oak	196
737206			Oak (3 frags.)	189B
737207			Oak	188
737208			Alder	195
737209			Oak (7 frags.)	198
737210	"Lower timber raft"		Oak. Insufficient rings for dendrochronology. Sufficient for radiocarbon dating.	(74)
737211			Oak. Insufficient for dendro? (c 50 - 60 rings) Sufficient for radiocarbon dating. (N.B. Paper label inside).	(58)
737212	"Wattle feature"		All hazel. (Representative sample of about 25% of total identified).	(59)
737213	"Wooden channel"		Oak. Insufficient for dendro? Sufficient for C ¹⁴ . (N.B. Paper label was inside).	(60)
737214	"Brushwood"		All alder. (Representative sample of about 20% of total was identified).	(49)
737215			Oak. Insufficient for dendro. Sufficient for C ¹⁴ .	(80)
737216	"Peg"		Oak	SF 18
737217	"Peg and beam"	A) B)	<u>Crataegus</u> type* (Hawthorn) Oak	103 A&B
737218	"Pegs"	A) B)	Oak Probably <u>Crataegus</u> type*	107 A&B
737219	"Coat hook"		Oak	107/SF 2
737220	"Triangle" "Wooden cork"	A) B)	Oak <u>Crataegus</u> type*	125/SF 1 125/SF 2
737221	"Wooden shoe"		Alder	119/SF 1
737222	"Wooden shoe"		Alder	119/SF 2
737223	"Peg"		Oak	C73/U

*Crataegus/Malus/Pyrus/Sorbus

ANCIENT MONUMENTS LABORATORY

MATERIAL WOOD

CARLISLE
 SITE:..... (DATE:)

SHEET: 4.....

AM No	X-Ray No	Photo No	Description and Report	Ref No
737224			Oak	135
737225			Oak	167
737226			Oak	168A
737227			1 frag. probably hazel. 2 frags. oak.	183
737228			Oak (2 frags.)	183A
737229			Alder	197
737230			Oak (2 frags.)	190
737231			Oak	C73/113
737232			Oak (6 frags.) Birch (1 frag.)	159
737233			Oak (5 frags.)	171
737234			Oak	SF14 ?173
737235			Oak (1 frag.) <u>Crataegus</u> type* (1 frag.)	163 ?168

Carle Keepax.

ANCIENT MONUMENTS LABORATORY

MATERIAL WOOD

CARLISLE

SITE:..... (DATE:

SHEET: 5

AM No	X-Ray No	Photo No	Description and Report	Ref No
738734	(lge peg)		Oak	189C
738733	(lge. peg)		Oak	189A
	(semi-circular fr.)		Oak	

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

CARLISLE (1973)

SITE:..... (DATE:)

6

SHEET:

AM No	Excavator's	comments	Description and Report	Ref No + seed nos.
			When necessary, samples were water sieved through 1.5 and 0.5 mm meshes and hand sorted at 32 x magnification in order to remove plant and animal remains. The recovery of arthropods was probably partial.	
737236	Identify	fibres	Charred ? grass, some ? moss, bud/seed? For further examination.	c73.127
737237	Horse hair		For further examination.	c73/105
737238	Identify		Material appears to be twisted, but the structure resembles wood rather than fibres. For further examination.	c73 129 SF1
737239	For identification of beetles		Sample wt. = 350 gm. The sample was found to contain the following:- 2 <u>Seeds</u> <u>Corylus avellana</u> L.Hazel (nut) fragment 1 <u>Polygonum convolvulus</u> L.Black bindweed (nut) 1 <u>P. persicaria</u> L.Redshank (nut) 1 <u>Ranunculus repens</u> L.(achene) 16 <u>Ranunculus</u> sp. (achene) 2	(75)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE: CARLISLE (1973) (DATE:)
 7
 SHEET:

AM No	Excavator's comments	Description and Report	Ref No + seed nos.
737240	Identification of beetles. N. edge of timber structure sunk into ditch.	<p><u>Arthropods</u></p> <p><u>Cercyon unipunctatus</u> (L) 1 ♂. elytron³ (Occurs in dung and decaying vegetation) Dipterous (fly) puparia</p> <p>Sample wt. = 870 gm.</p> <p>The sample was found to contain the following:-</p> <p><u>Seeds</u>²</p> <p><u>Corylus avellana</u> L. (nut) fragment 1 <u>Atriplex patula</u> L. Orache (seed) 1 <u>Polygonum convolvulus</u> L. (nut) 1 <u>Ranunculus repens</u> L. (achene)..... 18 <u>Ranunculus</u> sp. (achene)..... 4 <u>Carex sylvatica</u> Huds. Wood sedge (nut + perig)... 2 (nut) 2</p> <p><u>Arthropods</u></p> <p>Numerous dipterous puparia. These occurred in a concentrated mass covering a volume of about 3 cm³</p> <p><u>Bone</u></p> <p>One fish bone⁵</p> <p><u>Leather</u></p> <p>A few fragments.</p>	(110)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:..... CARLISLE (1973)..... (DATE:)
 SHEET: 8

AM No	Excavator's	comments	Description and Report	Ref No + seed nos.
737241	Identification		One snail shell, too fragmentary for identification.	(183)
737242	Identification of fibres		<p>Sample wt. = 900 gm.</p> <p>The sample was found to contain the following:-</p> <p><u>Seeds</u>²</p> <p>These species seem to suggest an open woodland habitat of origin.</p> <p><u>Sambucus nigra</u> L. Elderberry (fruit) 15</p> <p><u>Hypochaeris radicata</u> L. Cat's ear (achene) 1</p> <p><u>Ranunculus repens</u> L. (achene) 10</p> <p><u>R. scleratus</u> L. Celery-leaved buttercup (achene).. 2</p> <p><u>R. sp.</u> (achene) 9</p> <p><u>Potentilla erecta</u> (L) Rausch. Tormentil (achene) 1</p> <p><u>Carex sylvatica</u> Huds. (nut + perig) 2</p> <p style="padding-left: 100px;">(nut) 1</p> <p><u>Arthropods</u></p> <p><u>Cytilus sericeus</u> (Forst.) 1 left elytron ³</p> <p><u>Notaris acridulus</u> (L) 1 left elytron (This occurs in marsh habitats, feeding on Typhaceae Cyperaceae, and Gramineae³)</p> <p>Larval Coleoptera head ⁴</p> <p>Dipterous puparia ⁴</p> <p><u>Moss</u></p> <p style="text-align: center;">6</p> <p>Awaiting report</p>	(12)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:.....CARLISLE (1973)..... (DATE:)
 SHEET:9.....

AM No	Excavator's	comments	Description and Report	Ref No seed nos.
737243	? leaf -	identify	The sample was examined at 12.5 x magnification. It contained decayed vegetable matter, but this was unidentifiable.	(49)
737244	Bracken and roots	for identification	The sample contained a large amount of moss, (report awaited ⁶), and a small amount of bracken.	(75)
737245	Walnut?,	for identification	<u>Juglans regia</u> L. Walnut (fruit) broken ²	(75)
737246	Turf -	identification	A small amount of moss was present (report awaited ⁶)	(57)
737247			<u>Seeds</u> ² <u>Iris pseudacorus</u> L. Yellow flag. Seeds 5.0 x 5.0 mm This plant inhabits wet ground and stream edges. The Roman site of Brough-on-Humber (Yorks) produced numerous seeds of this type. (Soc. of Antiq. 1969 p.222)	(111)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

CARLISLE (1973)
 SITE: (DATE:)
 SHEET: 11

AM No	EXCAVATOR'S	COMMENTS	Description and Report	Ref No
737248 CONT'D		4	<p><u>Notaris</u> sp. 1 rt elytron</p> <p><u>Apion</u> sp. 1 rt elytron</p> <p>Misc. Coleoptera 1 leg</p> <p>Dipterous puparia fragments</p> <p><u>Wood</u>⁷</p> <p><u>Quercus</u> sp. Oak</p> <p><u>Alnus glutinosa</u> (L.) Gaertn. Alder</p> <p><u>Fraxinus excelsior</u> L. Ash - including one worked fragment:-</p> <div> </div> <p>Bark - indet.</p> <p>All of the above were fragments from fairly large timbers.</p> <p><u>Grass</u></p> <p>Some fragments, possibly grass (Gramineae) leaf, were observed in the sample before sieving.</p>	(107)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:..... CARLISLE (1974) (DATE:)
 SHEET: 12

AM No	EXCAVATOR'S	COMMENTS	Description and Report	Ref No + seed nos.
77249	Seed or fruit		Unidentified material - probably not a seed or fruit. For further examination.	(112)
77250 A+B	Includes	hazelnut	<p>Sample wt. = 430gm.</p> <p>The mineral matrix contained numerous fragments of twig. The following identifiable remains were recovered:-</p> <p><u>Seeds</u>²</p> <p><u>Corylus avellana</u> L. (nut) fragments + (whole) 1 (separated on site)</p> <p><u>Chenopodium album</u> agg. Fat hen (seed) 1</p> <p><u>Rumex acetosella</u> agg. (nut) 1</p> <p><u>Ranunculus repens</u> L. (achene) 3</p> <p><u>Carex sylvatica</u> Huds (nut) 2</p> <p><u>Arthropods</u>⁴</p> <p>? Diptera</p> <p><u>Wood</u>⁷</p> <p><u>Alnus glutinosa</u> (L) Gaertn., twig and larger</p> <p><u>Betula</u> sp. Birch, twig and larger</p> <p><u>Quercus</u> sp., twig</p> <p>Other fragments were present but were too small for identification.</p>	(114) (114a)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:.....CARLISLE (1973)..... (DATE:)

SHEET:13.....

AM No	EXCAVATOR'S	COMMENTS	Description and Report	Ref No
737251	Grey silt		No further comments	(115)
737252	? Moss. Compare with 162A		Sample wt. = 25gm. The following remains were extracted and identified:- <u>Seed</u> ² <u>Ranunculus repens.</u> L. (achene) 1 <u>Moss</u> Report awaited ⁶ .	(119)A

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:..... CARLISLE (1973)..... (DATE:)
 SHEET: 14

AM No	Excavators	Comments	Description and Report	Ref No + seed nos.
737253	Gunge?		<p>Sample wt. = 200 gm.</p> <p>The sample resembled 737260 in general appearance. It consisted mainly of matted vegetable remains on one side (some resembling grass leaves), with many twigs on the other side. The following identifiable remains were extracted:-</p> <p><u>Seeds</u>²</p> <p><u>Chenopodium album</u> agg. (seed)5</p> <p><u>Galium</u> sp. (fruit)5</p> <p><u>Carex sylvatica</u> Huds. (nut)1</p> <p><u>C. sp.</u> (nut & perig)2</p> <p>These plants are sometimes associated with waste-land, or may be weeds of cultivation.</p> <p><u>Moss</u></p> <p>Report awaited⁶</p> <p><u>Wood</u>⁷</p> <p><u>Calluna. vulgaris</u> (L) Hull, Heather</p> <p><u>Alnus glutinosa</u> (L.) Gaertn., twig and larger</p> <p><u>Quercus</u> sp. timber fragments</p> <p><u>Corylus avellana</u> L., twig</p>	119/B

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:.....CARLISLE.....(1973).....(DATE:.....)
 SHEET:15.....

AM No	Excavators	Comments	Description and Report	Ref No + seed Nos
737254	What is it?		<p><u>Description</u>⁸</p> <p>10 YR 6/3 (pale brown) with very dark greyish brown (10YR 3/2) mottles (approximately 5%). Very fine silty clay with marked platy structure and firm consistency. This could possibly be an ash layer of some sort (?). It also contains some organic material and alternatively could form part of a deposit laid down under standing water.</p> <p>Sample wt. = 310 gm.</p> <p>The following were recovered and identified:-</p> <p><u>Seeds</u>²</p> <p><u>Stellaria media</u> (L) Vill. Chickweed (seed)1</p> <p><u>Hypochaeris radicata</u> L. (achene)4</p> <p><u>Leontodon hispidus</u> L. Rough hawk's bit (achene)1</p> <p><u>Raphanus raphanistrum</u> L. Wild radish (fruit).....12</p> <p>(seed).....2</p> <p><u>Plantago lanceolata</u> L. Ribgrass (seed)3</p> <p><u>Polygonum convolvulus</u> L. (nut)1</p> <p><u>P. persicaria</u> L. (nut)4</p> <p><u>Ranunculus repens</u> L. (achene)20</p> <p><u>R. sp.</u> (achene)12</p>	152

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:.....CARLISLE (1973)..... (DATE:)
 SHEET:17.....

AM No	Excavator's	Comments	Description and Report	Ref No + seed nos
737260	Moss etc.	Identify	<p>A large quantity of moss, and a small amount of grass leaf, seeds and wood were present.</p> <p>Sample wt. = 220 gm.</p> <p><u>Seeds</u>²</p> <p><u>Ranunculus repens</u> L. (achene)4</p> <p><u>Moss</u></p> <p>Report awaited ⁶</p> <p><u>Wood</u>⁷</p> <p><u>Salix</u> sp. Willow, twig (?)</p> <p><u>Quercus</u> sp. from a large timber</p>	162A

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen.

SITE:..... CARLISLE (1973)..... (DATE:)
 SHEET: 18

AM No	Excavators	Comments	Description and Report	Ref No + seed nos
737260	Moss etc	Identify	<p>The sample contained a large amount of organic material, including wood, moss, grass and arthropod remains. The following were identified:-</p> <p>Sample wt. = 440 gm.</p> <p><u>Seeds</u>²</p> <p><u>Corylus avellana</u> L. (nut) fragments 2</p> <p><u>Ranunculus repens</u> L. (achene) 39</p> <p><u>R. sp.</u> (achene) 10</p> <p><u>Carex sylvatica</u> Huds. (nut and perig) 4</p> <p align="right">(nut) 2</p> <p><u>C. sp.</u> (nut) 10</p> <p><u>Arthropods</u>³</p> <p><u>Abax parallelipipedus</u> (Pill) 1 pronotum</p> <p><u>Moss</u></p> <p>Report awaited⁶</p> <p><u>Wood</u>⁷</p> <p><u>Quercus</u> sp. charcoal and wood from large timbers</p> <p><u>Corylus avellana</u> L. twig</p>	162B

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

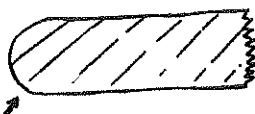
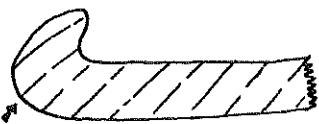
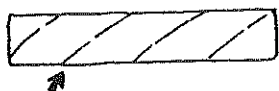
CARLISLE (1973)
 SITE:..... (DATE:)
 20
 SHEET:

AM No	Excavator's comments	Description and Report	Ref No
737262	Identify	<p>This was the remains of a turf with moss <u>in situ</u> on the surface. A series of pollen samples were taken from top to bottom (to be reported separately⁹)</p> <p><u>Moss</u> Preliminary examination ⁶ suggested that most of the moss was a commonly occurring type often found, for example, in woodland clearings.</p>	187
737263	Resin?	Awaiting report. ¹⁰	191
737279	Fill of construction trench, (see bones c73 158)	No comments.	c73 158A
737281	Identification of wood etc. E. of clay (? furnace) in ash etc.	<p>The wood (charcoal) was all <u>Quercus</u> sp⁷. It was impregnated with an orange waxy substance¹¹ (report awaited).</p>	15

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental Gen,

SITE:.....CARLISLE (1973)..... (DATE:)
 SHEET:21.....

AM No	Excavators Comments	Description and Report	Ref No
737282	Identify wood etc.	<u>Quercus</u> sp. charcoal	c73 41
737283	For identification of charcoal, same as -84 -85?	A few fragments of <u>Quercus</u> sp. charcoal (not worked), and a few fragments of worked wood which had been charred. This was probably <u>Acer</u> sp. ⁷	c73 141
		 <p align="center">direction of growth rings</p>	
737284	Same as -83, -85?	Part of a charred wooden artefact, probably <u>Acer</u> sp. ⁷	c73 169
		 <p align="center">direction of growth rings</p>	
737285	Same as -83, -84?	<u>Acer</u> sp. (cf. <u>campestre</u> , field maple), charcoal ⁷	c73 184
		 <p align="center">direction of growth rings</p>	
737287	Identify 'gilt' deposit	Awaiting report ¹⁰	(36)
737288	Identify 'blue' deposit	<u>Quercus</u> sp. wood with vivianite deposits ⁷	(35)
737289	Identify mineral	Galena (lead ore) ⁸	(79)

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:.....CARLISLE (1973)..... (DATE:)

SHEET:22.....

AM No	Excavator's	comments	Description and Report	Ref No + seeds nos
738726	Gunge - is it stable sweepings or what?		<p>Sample wt. = 15 gm.</p> <p>The sample contained mineral material mixed with organic remains, including the following identifiable seeds and arthropods:-</p> <p><u>Seeds</u>²</p> <p><u>Ranunculus repens</u> L. Creeping buttercup (achene) . 5</p> <p><u>Galium palustre</u> L. Marsh bedstraw (fruit) 5</p> <p><u>Galium</u> sp. (fruit)..... 2</p> <p><u>Carex strigosa</u> Huds. (nut & perig) 1</p> <p><u>Arthropods</u>⁴</p> <p>Hemiptera (= bug) wing.</p>	c73 170

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:..... CARLISLE (1975) (DATE:)
 SHEET: 23

AM No	Excavator's	comments	Description and Report	Ref No
755711	Wooden comb	for conservation	Not yet identified	c75/11
755713	Samples	for dendro-programme	Results forthcoming separately ¹²	①-⑥

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE: ... CARLISLE (1975) (DATE:)

SHEET: 24

AM No	Excavators comments	Description and Report	Ref No
755714	Grey silt material from N. end of site under timber and immediately over marl subsoil. Very fine material deposited by water.	<p><u>Description</u></p> <p>10YR 3/2 (very dark greyish brown). Texture silty with some fine sand. Few small stones (up to 1½ cms). Non-calcareous. Weak crumb structure. Four small streaks - 10YR 5/8 (yellowish brown) concentrated in sandy spots - moderate consistency. It is not possible to say whether this material was deposited by water or not. There is no evidence of laminations. It could equally well have been wind deposited.¹³</p> <p>Sample wt. = 4.989 kg.</p> <p>The sample was treated by the paraffin flotation method* using a minimum sieve size of 300 microns. The following were recovered:-</p> <p><u>Seeds</u></p> <p>See attached report.²</p> <p><u>Arthropods</u></p> <p>Report awaited.³</p> <p>*Coope, G R, Osborne, P J 1967 Report on the Coleopterous Fauna from the Roman Well of Barnsley Park, Gloucester. <u>Trans. Brist. and Gloucs. Arch Soc.</u> <u>86</u> 74-87</p>	

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:.....CARLISLE (1975)..... (DATE:)

SHEET:25.....

AM No	Excavator's comments	Description and Report	Ref No
755714	Evil smelling gunge for comparison with 1973 samples. From U-shaped 'trough like' feature immediately over subsoil.	<p><u>Description</u></p> <p>10YR 3/4 (very dark grey). Very high organic content, with macroremains of vegetation. This is in a fine silty matrix. Sub-angular structure (moderate). Non-calcareous. Moderately firm consistency. ¹³</p> <p>Sample wt. = 4.931 kg.</p> <p>The sample was treated by the paraffin flotation method and the following remains were recovered:-</p> <p><u>Seeds</u></p> <p>See attached report. ²</p> <p><u>Arthropods</u></p> <p>Awaiting report. ³</p> <p><u>Moss</u></p> <p>Awaiting examination.</p> <p><u>Wood</u></p> <p>Awaiting identification.</p>	C75/18

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE:.....CARLISLE (1975)..... (DATE:)

SHEET:26.....

AM No	Excavator's	comments	Description and Report	Ref No
755714	For comparison with material excavated in 1973 and with G75/17		<p><u>Description</u></p> <p>10YR 3/3 (dark brown) deposit containing layers of 10YR 3/1 (very dark grey) and 10YR 7/4 (very pale brown). These layers are about 1/4" thick.</p> <p>Moderately firm consistence. Sub angular structure.</p> <p>Overall texture is clay. The sample also contains small localized sand pockets 10YR 5/4 (yellowish brown).</p> <p>The deposit is partly laminated and the morphology indicates that the layers of organic material are separated by a very pale clay-like substance which is possibly ash.¹³</p> <p>Sample wt. = 4.875 kg</p> <p>The sample was treated by the paraffin flotation method and the following remains were recovered:-</p> <p><u>Seeds</u></p> <p>See attached report.²</p> <p><u>Arthropods</u></p> <p>Report awaited.³</p> <p><u>Moss</u></p> <p>Awaiting examination.</p> <p><u>Wood</u></p> <p>Awaiting identification.</p>	G75/19

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE: ... CARLISLE (1975) ... (DATE:)

SHEET: ..27.....

AM No	Excavator's comments	Description and Report	Ref No
755715	Roman level on under-side of timber N. end of site. Compare with bugs found in 1973 at S. end of site.	Not yet examined	C75/29
755716	Fibres found at S. end of site on level of clay and wood floor. Layer also producing leather.	Not yet examined	C75/24
755717	Wood	Not yet identified	C75A-F

CARLISE 75. Roman.

* Denotes fragments of the disseminule listed were present but not included in the count figure.

			075.17	075.18	075.19
<u>RANUNCULACEAE</u>					
<u>Ranunculus repens</u> L.	Creeping buttercup	Achene		19*	4
<u>R. acris</u> L.	Meadow buttercup	Achene	3	56	7*
<u>R. flammula</u> L.	Lesser spearwort	Achene		13	
<u>PAPAVERACEAE</u>					
<u>Papaver</u> sp.	Poppy	Seed	1		
<u>URTICACEAE</u>					
<u>Urtica dioica</u> L.	Greater stinging nettle	Achene	*	3	
<u>BETULACEAE</u>					
<u>Alnus glutinosa</u> (L) Gaertn.	Alder	Nutlet			1
<u>PORTULACAEAE</u>					
<u>Montia fontana</u> L.	Water blinks	Seed	39*	2	2
most likely <u>ssp. chondrosperma</u> (Fenzl) S.M.Walters. assessed by seed coat characteristics.					
<u>CARYOPHYLLACEAE</u>					
<u>Stellaria media</u> (L) Vill.	Chickweed	Seed		6	
<u>S. graminea</u> L.	Lesser stitchwort	Seed		11	
<u>S. sp.</u> too damaged		Seed		*	
<u>Spergula arvensis</u> L.	Corn spurrey	Seed			1
<u>Cerastium glomeratum</u> Thuill.	Mouse eared chickweed	Seed		6	
<u>CHENOPODIACEAE</u>					
<u>Chenopodium album</u> L.	Fat hen	Seed	1	2	1
<u>Atriplex patula</u> L.	Orache	Seed		3	

CARLISE Sheet 2

			C75.17	C75.18	C75.19
<u>POLYGONACEAE</u>					
<u>Rumex acetosella</u> L.	Sheep's sorrel	Achene		44	
<u>R. crispus</u> L.	Curled dock	Achene		4	
<u>Polygonum lapathifolium</u> L.	Pale persicaria	Achene		3	
<u>P. aviculare</u> L.	Knotgrass	Achene	1*	9	
<u>P. hydropiper</u> L.	Water pepper	Achene		1	
<u>P. persicaria</u> L.	Persicaria	Achene	4*	4	
<u>BRASSICACEAE (Cruciferae)</u>					
<u>Raphanus raphanistrum</u> L.	Wild radish	Pieces of fruit		5	
<u>ROSACEAE</u>					
<u>Prunus spinosa</u> L.	Sloe	Stone		1	
<u>Potentilla erecta</u> (L) Rausch.	Common tormentil	Achene	1	3	
<u>P. sterilis</u> (L.) Gaercke.	Barren strawberry	Achene		2	
<u>LAMIACEAE (Labiatae)</u>					
<u>Stachys</u> sp.	Woundworts	Nutlet	1*	1	
<u>ASTERACEAE (Compositae)</u>					
<u>Leontodon autumnalis</u> L.	Autumn hawkbit	Achene		5*	
<u>JUNCACEAE</u>					
<u>Juncus</u> sp. (Modern ?)	Reed	Seed		9	
<u>CYPERACEAE</u>					
<u>Carex disticha</u> Huds.	Common brown sedge	Perigynium & Achene	6	244	8
<u>C. hirta</u> L.	Hairy sedge	Perigynium & Achene		11	1
<u>C. nigra</u> (L.) Reich.	Common black sedge	Perigynium & Achene		5	
<u>C. flacca</u> Schreb.	Glaucous heath-sedge	Achene		3	
<u>Eleocharis palustris</u> (L) Roem. & Schult.	Common spike rush	Achene		45	

In bottle C75.17 there are many very small seeds - approx 0.3 mm. dia. which are too eroded for any accurate assessment.

Handwritten signature

ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen

SITE: CARLISLE (1976) (DATE:)
SHEET: 30

AM No	X-Ray No	Photo No	Description and Report	Ref No
766404			Plank with fibre mat impressions (with conservation section). Not yet identified	
766847-50			Wood Not yet identified	
766851-3			Plant remains Report forthcoming separately ⁹	
766860-2			Seeds Report forthcoming separately ⁹	
766863			Woodlouse 1stC AD Confirm identification, are others known? This common woodlouse is one of the few species in Britain which can tolerate acidic soils ¹ . The Carlisle specimen is probably a recently-dead modern specimen in which the organic tissues have rotted away, while the mineral framework has survived almost intact. It is possible that the specimen fell into a crack or similar, protected situation beyond the level of ground-water which would have dissolved the framework. ⁴ ¹ Sutton, S.L. (1972) Woodlice. Ginn and Co Ltd., London.	C76/30
766864			Late 1st, early 2nd cent. Evidence of dog? Animal excreta? Report on coprolite sent previously ⁵	
766865			? Moss. Identify and compare with 1973 sample. Roman late 1st, early 2nd cent. Not yet examined.	
766866-68			Other botanical Report forthcoming separately ⁹	
766869-81			Wood. Identify and preserve (with conservation section) Not yet identified.	

ANCIENT MONUMENTS LABORATORY

2607 31

MATERIAL Environmental gen.

SITE: ... CARLISLE (1976) ... (DATE:)

SHEET: ... 31 ...

AM No	Excavator's	Comments	Description and Report	Ref No
766914-23	Dendrochronology	samples.	Report forthcoming separately ¹²	

REPORT ON A SOIL MONOLITH FROM CARLISLE, CUMBRIA
(EXCAVATIONS BY D CHARLESWORTH, 1976)

The Roman site was located approximately 250 metres from the River Caldew (a tributary of the Eden) and 600 metres from the River Eden. Soil parent material appears to be sands, clays and gravels derived at least in part from the Caldew, but possibly also influenced by the Eden.

A soil monolith was collected in the summer of 1976 by Mr James Rackham (DOE Biological Laboratory, University of Durham) from the soil profile, which apparently underlies the whole of the archaeological site, and this is described below.

THE SOIL MONOLITH

A drawing of the section is shown in Figure 1.

0-6 cms was yellowish brown (10YR 5/4) friable, structureless coarse sand containing few (less than 2%) medium, distinct, strong brown (7.5YR 5/8) mottles and 50% stones (gravel to medium). This layer was part of a disturbed occupation deposit.

6-8 cms was yellowish brown (10YR 5/4) structureless coarse sand, moderately friable and containing common yellowish brown (10YR 5/8) diffuse, medium mottles and few stones (5%, gravel to small). This layer formed the base of the disturbed occupation deposit.

8-21 cms was dark greyish brown (10YR 4/2), firm, medium sandy loam with weak medium subangular blocky structure, containing common coarse, diffuse, strong brown (7.5YR 5/8) mottles and 15% stones (gravel to medium). Charcoal flecks and fragments were present throughout. It is suggested that this is an A_g horizon, containing material from a pre-existing A_h or A_{hg} horizon. The dark colour is due to the presence of humic material.

21 to 30 cms was brown (10YR 5/3) coarse sandy clay loam containing patches of material similar to that in the overlying horizon (10YR 4/2, about 10%), possibly resulting from worm action. Also present were many coarse, diffuse, strong brown (7.5YR 5/8) mottles and few (5%) stones, gravel to small. Structure was weak medium angular blocky; consistence firm. This horizon may contain clay eluviated from above (indicated by increased heaviness of texture), although no clay skins could be distinguished.

30-40 cms was similar in some respects to the horizon above, but texture was coarse sandy loam and stone content higher (25%, gravel to large)

Below 40 cms was predominantly light yellowish brown (10YR6/4) coarse sand containing very many coarse, diffuse yellowish brown (10YR5/8) mottles and few clear, fine strong brown (7.5YR5/8) mottles, with some manganese oxide stains on stones. Below 43 and on the right hand side of the column was reddish brown (5YR 4/4) clay with many coarse distinct manganese oxide mottles. Both matrices were structureless. The coarse sand was friable and contained 20% stones (gravel to large), while the clay was firm and contained fewer, smaller stones (5%, gravel to small).

Throughout the profile the stone fraction consisted of rounded pebbles (gravel to large) and weathering sandstone (gravel to small). Roots were absent throughout.

Comment

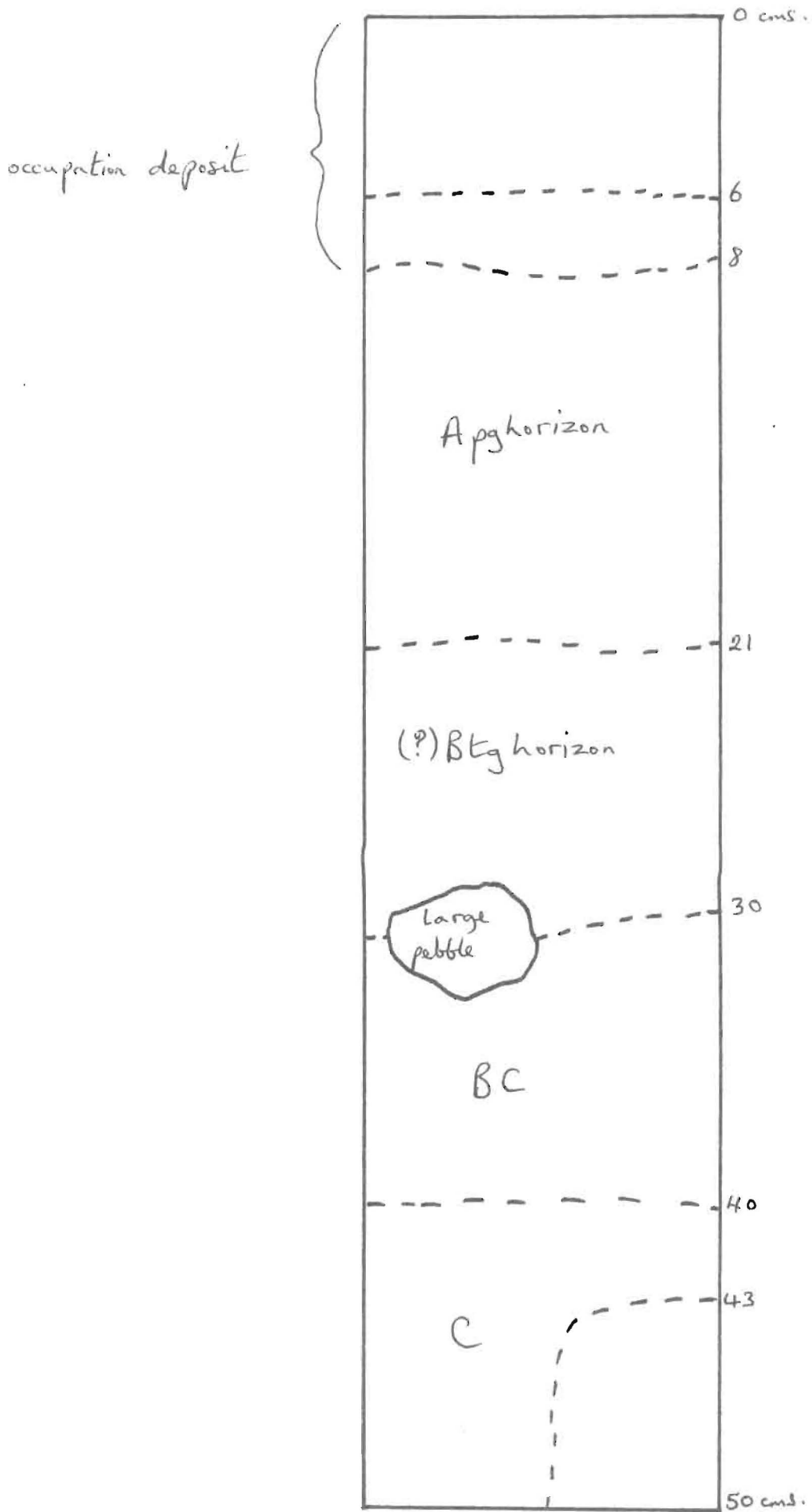
It is suggested that the column below 8 cms from the top represents the natural soil profile which underlies all the archaeological deposits. The profile has been modified in that the topsoil has been disturbed, presumably during cultivation. It is also likely that gleying phenomena have been superimposed or accentuated since occupation, of the site began, due to fluctuations in the water table.

Helen C. M. Keeley

HELEN C M KEELEY
Ancient Monuments
Laboratory (DOE)

21st. February 1977

Figure 1. A Soil Monolith from below the Archaeological Site at Carlisle, Cumbria. 2402



ANCIENT MONUMENTS LABORATORY

MATERIAL Environmental gen.

SITE: ... CARLISLE (1977) ... (DATE:)

SHEET: ... 35 ...

AM No	Excavator's comments	Description and Report	Ref No
770844	Wooden comp for conservation	Not yet identified	C76/23 SF 6
771158	Burnt circular lid	Charred wood - Not yet identified	45

MATERIAL Environmental gen.

SITE:.....CARLISLE..... (DATE:)

SHEET:36.....

AM No	X-Ray No	Photo No	Description and Report	Ref No
			<p>CONTRIBUTORS</p> <ol style="list-style-type: none"> 1. S.Limbrey (Birmingham University) 2. J.R.B.Arthur and P.Paradine (DOE consultants) 3. M.Robinson (DOE consultant) 4. M.Girling (A.M.Lab.) 5. R.Jones (A.M.Lab.) 6. D.H.Dalby (Imperial College, London) 7. C.Keepax (A.M.Lab.) 8. H.Keeley (A.M.Lab.) 9. A.Donaldson (Durham University, DOE laboratory) 10. L.Biek (A.M.Lab.) 11. J.Evans (NE.London polytechnic) 12. R.Morgan and J.Hillams (Sheffield University, DOE laboratory) 13. P.Taylor (Institute of Archaeology, London, DOE research fellow) <p>All additional notes and collation by C Keepax</p>	