APPENDIX 4

THE QUERNS

By Emma Durham

TABLE 71. THE QUERNS

Context	SF	Cut	Context	Wt (g)	Th (mm)	D (mm)	Stone type	Type	Description	Fig. No.
11111	6561	11110	Ditch 11631	513			Lodsworth	Rotary, upper	Tooled surfaces, nicely made. Straight edge, grinding surface slightly worn. Upper surface dished.	
12021		11580	Ditch 11631	27			Lodsworth		Very small fragment with a small area of grinding surface.	
12021		11580	Ditch 11631	110	35-42		Lodsworth	Rotary, upper	Small fragment with worn grinding surface.	
12021		11580	Ditch 11631	60			Lodsworth		Very small fragment, abraded.	
12021		11580	Ditch 11631	178			Lodsworth		Small fragment, pecked grinding surface and edge.	
11592	7691	11615	Ditch 11631	241	37		Lodsworth	Rotary, disc	Burnt. Thin and flat with pecked surfaces and some of outer edge present.	
11592	7657	11615	Ditch 11631	282	32 (at edge)		Lodsworth	Rotary, lower	Largest fragment is lower stone, worn tooled grinding surface smooth at edge (like some of the other fragments). Base roughly pecked.	
15355		11615	Ditch 11631	140			Lodsworth		Discarded on site.	
12189		11631	Ditch 11631	36			Lodsworth		Small fragment with tooled grinding surface and edge.	
14623		11631	Ditch 11631	100			Lodsworth		Not found.	
11977	7119	11982	Ditch 11631	191	50		Lodsworth	Rotary, upper	Small upper stone fragment with partial handle socket and small part of the central perforation. Wear around the socket, nicely pecked surfaces.	

TABLE 71 (cont.). THE QUERNS

Context	SF	Cut	Context	Wt (g)	Th (mm)	D (mm)	Stone type	Type	Description	Fig. No.
11650		11983	Ditch 11631	68			Lodsworth		Small fragment.	
11650	6495	11983	Ditch 11631	423	60-92 (at edge)		Lodsworth	Rotary, upper	Small, thick fragment, tooled surfaces. Slightly abraded grinding surface, worn smooth in places and very concave. Straight edge.	
11650		11983	Ditch 11631	91			Lodsworth		Very small fragment with a small area of grinding surface. Could be from SF 6495 but does not join.	
11650		11983	Ditch 11631	86			Lodsworth		Very small fragment with a small area of very worn grinding surface. Could be from SF 6495 but does not join.	
12738		12772	Ditch 11631	60	32-39		Lodsworth	Rotary, disc?	Small fragment. Tooled surfaces. Thinner Roman type?	
15528		15529	Ditch 11631	32			Lodsworth		Discarded on site.	
12678		12781	Post-hole, Structure 10	168			Lodsworth		Slightly abraded. Worn grinding surface.	
8328		8328	Well	23			Lodsworth		Discarded on site.	
9152		8328	Well	48	45		Lodsworth	Saddle?	Very small fragment with smooth, concave grinding surface. Sample 3160.	
9258	7234	8328	Well	431	28-46		Lodsworth	Rotary, lower	3 joining fragments, convex grinding surface, tooled.	
9258	7235	8328	Well	205	50		Lodsworth	Rotary, lower	Small fragment, does not seem to join SF 7234 but likely part of same stone.	
9258	7236	8328	Well	187	32		Lodsworth	Rotary, upper	Small fragment, tooled grinding surface. Similar to SF 5450.	
9309	5428	8328	Well	316	42		Lodsworth	Rotary, disc	Burnt. Tooled grinding surface, worn smooth in places.	
9309	5450	8328	Well	554	18-40 at edge		Lodsworth	Rotary, disc upper	Joins SF 7242. Concave grinding surface, tooled. Upper surface worn in places.	
9309	7242	8328	Well						Joins SF 5450.	
14027	7118	13965	Well	436	35-70 (at edge)		Lodsworth	Rotary, upper	Small fragment with pecked and tooled surfaces. Sharply concave upper stone with wear on the upper surface along one edge. Dished upper surface - secondary use?	

10730		10746	Pit Group 1	341		Lodsworth	Saddle	Very smooth grinding surface.
12461		12462	Pit Group 1	644		Quartz conglomerate	Rotary, upper	Smooth upper and grinding surfaces, edge roughly tooled. Typical Iron Age shape.
15620		15670	Pit Group 1	336		Lodsworth		Small fragment. No worked surfaces but one is slightly worn.
17847	7844	17848	Pit Group 1	135		Lodsworth	Rotary, lower	Small fragment. Worn grinding surface. Probably a lower stone.
14626		14658	Pit Group 3	7		Lodsworth		Very small fragment.
10791	6101	11673	Pit Group 4	318	69 at edge	Lodsworth	Rotary, upper	Concave grinding surface, worn but pecking still visible. Pecked, straight outer edge.
11687		11721	Pit Group 4	73	24	Lodsworth		Small fragment, pecked, worn surface. Thin.
11758	7663	11764	Pit Group 6	487		Lodsworth	Rotary, disc	2 joining fragments. Roughly pecked into shape, grinding surface smoother and worn at edge.
11758		11764	Pit Group 6	417	40	Lodsworth	Rotary, disc	Joins SF 7663? As for 7663.
11671		11694	Pit Group 8	233		Lodsworth	Rotary, upper	No working surface but there is part of the central socket.
11757		11763	Pit Group 9	291	25	Lodsworth		Thin, worn grinding surface. No edge.
11757		11763	Pit Group 9	112	42	Lodsworth		Small, worn grinding surface.
15069		15109	Pit Group 9	155		Lodsworth	Rotary	Sample 9364. Small fragment with 1 pecked surface. The other surfaces are broken.
16530	7880	16546	Pit Group 9	57		Lodsworth	Rotary	Small fragment. One edge worn smooth, slightly convex.
16698	7804	17317	Pit Group 9	610	56 (at edge)	Lodsworth	Rotary, lower	Lower stone. Surface pecked but worn, especially at the edge where smooth. Almost a lip formed.
16698	7843	17317	Pit Group 9	306		Lodsworth	Rotary, lower	Small fragment. Very smooth, worn patch on one surface but the rest of the surface is roughly pecked. Possibly a lower stone with excess wear towards the edge (see SF 7804) but very localised. ?Secondary use.

TABLE 71 (cont.). THE QUERNS

Context	SF	Cut	Context	Wt (g)	Th (mm)	D (mm)	Stone type	Type	Description	Fig. No.
15126	7112	15142	Pit Group 10	150	20 (at edge)-27		Lodsworth	Rotary, disc	Small fragment. Thin. Nicely pecked and tooled surfaces. Radial tooling on the grinding surface which is slightly worn.	
15126		15142	Pit Group 10	250	50-71		Lodsworth	Saddle?	Two opposing worn surfaces, 1 very angled.	
15126		15142	Pit Group 10	10			Lodsworth		Not found.	
15126		15142	Pit Group 10	20			Lodsworth		Not found.	
15126		15142	Pit Group 10	395	46		Lodsworth	Rotary, lower	2 joining fragments. Grinding surface worn smooth but the opposing surface is also worn. Burnt.	
15140	7555	15142	Pit Group 10	428	45		Lodsworth	Saddle?	One very worn, smooth surface. Opposite surface also slightly worn and rounded. Reused as a whetstone.	109.5
15140		15142	Pit Group 10	75			Lodsworth		Discarded on site.	
16691	7813	16688	Pit Group 11	433	56		Lodsworth	Rotary, upper	Small area of pecked grinding surface, smooth upper surface. Possibly part of a handle socket. Slightly worn. Very angled surface.	
9581	7250	8580	Pit Group 14	354	76		Lodsworth	Saddle	Very smoothly worn grinding surface at edge, base worn.	
9592	7246	8580	Pit Group 14	129			Lodsworth		Small fragment with very small part of worked area which is smooth and slightly concave. Possibly from same quern as SF 7250?	
9592	5672	8580	Pit Group 14	242	47		Lodsworth	Rotary, lower?	Small fragment. One smoothly worn surface, slightly convex. One surface now worn smooth - possibly re-used as a whetstone.	109.3
10402	7254	10410	Pit Group 14	220	58		Lodsworth	Rotary, upper	Small fragment with a concave grinding surface. Upper surface also worn.	
10402		10410	Pit Group 14	221	58		Lodsworth	Rotary, lower	Small fragment with a slightly convex grinding surface and worn base.	

11568	6112	11026	Pit Group 14	190	30/40 (at edge)		Lodsworth	Rotary, lower	Uneven thickness. Grinding surface tooled, very smooth patch at edge. Lower surface worn. Edge straight but quite roughly tooled.	
11568	7660	11026	Pit Group 14	138	24		Lodsworth	Rotary, lower	Small fragment from the edge of a quern. Grinding surface worn smooth, base also worn.	
11593		11026	Pit Group 14	200			Lodsworth		Small fragment, worn with smooth grinding surface.	
11602		11026	Pit Group 14	55			Lodsworth		Very small abraded fragment.	
11602	6224	11026	Pit Group 14	1902	15-57 (at edge)	*c*.380	Lodsworth	Rotary, upper	Part of handle socket and central perforation. Grinding surface worn but the tooling (concentric rings) visible. Shallow groove around the central socket. Nicely pecked. Straight edge. Probably same quern as SF 6047 (from later slump, context 11112) but does not join.	110.2
12027		12049	Linear, Trackway 1	45			Lodsworth	Rotary, upper?	Very small fragment from the edge of quern. Grinding surface worn.	
12027		12049	Linear, Trackway 1	114			Lodsworth		Abraded, burnt fragment. Bit of grinding surface present.	
12129		12151	Gully, Trackway 1	34			Lodsworth		Very small fragment. Burnt. 1 worn smooth surface.	
12129		12151	Gully, Trackway 1	38			Lodsworth		Very small fragment. Part of tooled grinding surface.	
12129		12151	Gully, Trackway 1	27			Lodsworth		Very small fragment. No worked surfaces.	
8422	5137	8423	Ditch, Trackway 2	330	30 at edge		Lodsworth	Rotary	2 joining fragments, abraded, thin, dished grinding surface	
8481	5192	9151	Ditch, Trackway 2	1130	70 max.		Lodsworth	Saddle	Grinding surface very concave and smooth, base also smooth.	109.1
9736		9674	Ditch, Trackway 2	103			Lodsworth		Very small fragment, pecked surface.	
9719	7251	10024	Ditch, Trackway 2	117	*c*.20		Lodsworth		Thin fragment, dished grinding surface, worn.	
10087	7253	10716	Ditch, Trackway 2	338	26-32 at edge	*c*.320?	Lodsworth	Rotary, disc upper	Thin, flat type, nicely pecked surfaces. Grinding surface worn.	

TABLE 71 (cont.). THE QUERNS

Context	SF	Cut	Context	Wt (g)	Th (mm)	D (mm)	Stone type	Type	Description	Fig. No.
15832	7598	16463	Gully	149	38		Lodsworth	Rotary, disc	4 joining fragments of a thin, flat quern. Grinding surface worn smooth at the edge. Pecked and tooled.	
7827		7826	Post-hole	49			Lodsworth		Very small fragment.	
8525		8525	Post-hole	23			Lodsworth		Very small fragment. No worked surfaces.	
11733	6211	11734	Gully	1218	25-90		Lodsworth	Rotary, upper	Nice fragment with worn grinding surface. Upper surface dished and worn – reused.	109.4

APPENDIX 5

THE ANIMAL BONE

By Claire Ingrem

TABLE 72. TAXA REPRESENTATION (NISP)

i) hand collected

	Well 8328	Well 10421	Well 13965	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9	PG10	PG11	PG12	PG14	Ditch 11631	Total No.	Total %
Horse		2					2									4	14	22	1
Cattle	62	21	2	94	61	36	23	12	5	16	10	83	90	11	8	106	386	1026	57
Sheep	1	1				4	1					3	6		1	5	5	27	2
Goat			1															1	
Sheep/goat	2	32	7	17		41	6	4		5	9	37	64	2	3	53	183	465	26
Pig	3	17	5	12		39				1	1	26	36		6	34	47	227	13
Dog	2	1		1		1						1	2			3	1	12	1
Orctolagus cuniculus																	1	1	<1
Galliform						2							4			2		8	<1
cf.Galliform						1												1	<1
cf. Scolapax rusticola																1		1	<1
Bird													2			2		4	<1
Large mammal	9	56	7	86	7	70	3	1	2	3	12	144	134	15	3	132	271	955	
Medium mammal	2	41		12	2	29	2		2	1	3	34	44	1	1	66	47	287	
Small mammal		1											1					2	
Unidentifiable	8	175	20	371	113	364	37	17	22	112	277	645	338	11	35	778	1453	4776	
Total	**89**	**347**	**42**	**593**	**183**	**587**	**74**	**34**	**31**	**138**	**312**	**973**	**721**	**40**	**57**	**1186**	**2408**	**7815**	
Total identifiable	70	74	15	124	61	124	32	16	5	22	20	150	204	13	18	210	637	1795	
% identifiable	79	21	36	21	33	21	43	47	16	16	6	15	28	33	32	18	26	23	
Total identifiable (inc. size categories)	81	172	22	222	70	223	37	17	9	26	35	328	383	29	22	408	955	3039	
% identifiable (inc.size categories)	91	50	52	37	38	38	50	50	29	19	11	34	53	73	39	34	40	39	

ii) sieved samples

	Well 8328	Well 10421	Well 13965	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9	PG10	PG11	PG12	PG14	Ditch 11631	Total No.	Total %
Horse																1	1	2	1
Cattle	7	2	2	6	8	4	1				1	16	14	5	4	14	3	87	22
Sheep		2				1							1					4	1
Sheep/goat	3	18		9	4	7	1	8	3		1	32	18	5	2	15	20	146	37
Pig	1	10		10	1	36		5	1	1		29	5	5	5	4	13	126	32
Dog		1																1	
Galliform		1														1		2	<1
cf. Galliform		1																1	
Turdidae spp.					1													1	<1
Bird	1	3												1		1		6	2
Mus musculus																1		1	<1
Rodent		1		3												1		5	1
Rana spp.																1		1	<1
Bufo bufo		2																2	
Amphibian		10																10	
Salmonid spp.												1						1	<1
Fish				1														1	<1
Large mammal	1	7	1	5		4						18	20	7	4	6	2	75	
Medium mammal	2	38		10	1	8	1	3	1		6	20	3	11	2	15	5	126	
Small mammal		2									1		1			1	1	6	
Unidentifiable	1162	2448	37	1967	1090	2304	487	798	329	163	1042	2177	1298	401	269	6379	3475	25826	
Total	**1177**	**2546**	**40**	**2011**	**1105**	**2364**	**490**	**814**	**334**	**164**	**1051**	**2293**	**1360**	**435**	**286**	**6440**	**3520**	**26430**	
Total identifiable		51	2	29	14	48	2	13	4	1	2	78	38	16	11	39	37	397	
% identifiable		2	5	1	1	2		2	1	1		3	3	4	4	1	1	2	
Total identifiable (inc. size categories)	15	98	3	44	15	60	3	16	5	1	9	116	62	34	17	60	44	602	
% identifiable (inc.size categories)	1	4	8	2	1	3	1	2	1	1	1	5	5	8	6	1	1	2	

TABLE 73. MINIMUM NUMBER OF ELEMENTS (MNE) AND INDIVIDUALS (MNI)

a) cattle	Left	Right
Mandible	7	9
Scapula	5	14
Humerus	4	11
Radius	5	4
Ulna	4	4
Pelvis	2	8
Femur	2	6
Tibia	7	2
Astragalus	8	6
Calcaneus	9	3
Metacarpal	14	14
Metatarsal	11	9
1st phalanx	1	
MNE	79	90
MNI	14	

b) sheep/goat	Left	Right
Mandible	14	12
Scapula	8	4
Humerus	6	8
Radius	13	20
Ulna		4
Pelvis	2	4
Femur	4	2
Tibia	22	12
Astragalus	5	2
Calcaneus	1	3
Metacarpal	11	5
Metatarsal	7	9
MNE	93	85
MNI	22	

c) pig	Left	Right
Mandible	2	9
Scapula	5	6
Humerus	2	3
Radius	3	8
Ulna	1	3
Pelvis	2	3
Femur	2	3
Tibia	4	3
Astragalus	2	
Calcaneus	2	4
Metacarpal	1	3
Metatarsal	2	6
MNE	28	51
MNI	9	

TABLE 74. ARTICULATIONS AND PAIRED ELEMENTS ACCORDING TO FEATURE OR PIT GROUP (NISP)
(* recovered from sieved sample)

	PG1	PG9	PG10	PG14	Ditch 11631	Type
Cattle				2		astragalus and calcaneus (context 9592)
Sheep				2		humerus and radius (context 9592)
Pig		2			2	metatarsals (context 16698); pair of calcaneii (ditch)
Dog				2		radius and ulna (context 9592)
Galliform			2	2		pair humeri (context 15140)
Medium mammal	* 2					lumbar vertebra (context 17818)
Total	*2	2	2	8	2	

TABLE 75. ANATOMICAL REPRESENTATION OF MAJOR TAXA (NISP)

	Horse	Cattle	Sheep/goat	Pig	Dog	Large mammal	Medium mammal	Total
Horn core		1						1
Frontal		1						1
Parietal					1			1
Zygomatic		5	1					6
Premaxilla		1		1				2
Occipital condyle		6		2		1		9
Petrous		3						3

	Horse	Cattle	Sheep/goat	Pig	Dog	Large mammal	Medium mammal	Total
Incisor	5	12	10	25				52
Canine				16	1			17
Upper premolar	1	7	6	5				19
Upper molar	4	81	59	7				151
Lower premolar	1	9	8	15				33
Lower molar	2	64	74	13	1			154
Maxilla		2	3	18	1			24
Mandible	1	60	55	22	1	6	2	147
Atlas		2	1			1		4
Axis		2	2			1		5
Hyoid		1						1
Scapula		28	18	16		9	3	74
Humerus	1	26	22	10		18	9	86
Radius		24	57	12	2	2	4	101
Radius & ulna			1					1
Ulna		11	6	8	2	1		28
Pelvis		21	14	15	1	4		55
Femur		20	17	10	1	6	5	59
Patella		2	2	1				5
Tibia	1	16	63	12	1	11	22	126
Fibula				5				5
Astragalus	3	19	7	4				33
Calcaneus		14	5	6				25
Navicular cuboid		4						4
Tarsal		3						3
Carpal		2	9					11
Metacarpal		45	27	5				77
Metatarsal		44	29	10	1			84
Metapodial	1	20	8	16		2		47
Lateral metapodial				20				20
1st phalanx	2	53	21	15			1	92
2nd phalanx		24	11	12				47
3rd phahanx	1	12	7	3				23
Sacrum				1		1		2
Sesamoid		3				3		6
Cervical vertebra						6	3	9
Thoracic vertebra						6	4	10
Lumbar vertebra						4	10	14
Caudal vertebra							5	5
Rib						12	11	23
Skull fragment			1	5		16		22
Tooth fragment	1	465	96	43		1		606
Limb bone fragment			1			78	123	202
Vertebra fragment						88	25	113
Rib fragment						163	181	344
Total	**24**	**1113**	**641**	**353**	**13**	**440**	**408**	**2992**

TABLE 76. ESTIMATED AGE ACCORDING TO TOOTH ERUPTION AND WEAR (NISP)

i) horse

P3	P4	M1	M2	M3	Estimated age
			>62		5–8 years
				61.7	6–8 years
	50.5	43.9			7–10 years
51.1	55.8	49.4		34.5	8–10 years
			48.7		8–12 years

ii) cattle

P4	M1	M2	M3	Estimated age	%
(g)				6–15 months	6
(j)				6–15 months	
	f	b		15–26 months	
		b		15–26 months	9
			E	15–26 months	
			b	26–36 months	
			c	26–36 months	
			c	26–36 months	
			c	26–36 months	
			c	26–36 months	
			c	26–36 months	
			c	26–36 months	41
			c	26–36 months	
c	k	g	e	26–36 months	
		g		26–36 months	
f	k	j		26–36 months	
g	k			26–36 months	
	l			26–36 months	
			e	26–36 months	
	l	k		3–6 years	
		k	g	3–6 years	
e	l	k	g	3–6 years	
			g	3–6 years	21
			g	3–6 years	
			g	3–6 years	
			g	3–6 years	
			h	6–8 years	
			j	6–8 years	
			j	6–8 years	
f	l	k	k	6–8 years	24
			k	6–8 years	
		k		6–8 years	
			k	6–8 years	
			k	6–8 years	

iii) sheep/goat

P4	M1	M2	M3	Estimated age	%
(h)	d			6–12 months	
(g)	e	V		6–12 months	
(g)				6–12 months	13
(g)				6–12 months	
(h)				6–12 months	
	f	d		12–24 months	
	f	d		12–24 months	
		d		12–24 months	
		d		12–24 months	
	f	d	V	12–24 months	
	f	d	U	12–24 months	
(f)	f	d		12–24 months	34
	f	e		12–24 months	
	f			12–24 months	
(j)	g			12–24 months	
(l)	g	e		12–24 months	
	g	e		12–24 months	
	f	e	E	12–24 months	
			a	2–3 years	
			c	2–3 years	8
			c	2–3 years	
	f	d	d	3–4 years	
e	g	f	d	3–4 years	
e				3–4 years	
	g	f	e	3–4 years	
			e	3–4 years	
			e	3–4 years	
			e	3–4 years	34
			e	3–4 years	
			e	3–4 years	
			e	3–4 years	
g	j	g		3–4 years	
	m	g	f	3–4 years	
		g		3–4 years	
f				4–6 years	3
			g	4–8 years	5
			g	4–8 years	
			j	8years +	3

iv) pig

P4	M1	M2	M3	Estimated age
(g)	e			0-2 months
b				2-7 months
b				2-7 months
			E	14-21 months
	h	d	E	14-21 months
		d	1/2	14-21 months
b	e	d		14-21 months
			a	27-36 months
			b	27-36 months
		e	c	27-36 months
			c	27-36 months
			c	27-36 months

TABLE 77. EPIPHYSEAL FUSION DATA (NISP)

i) cattle

		Fused	Unfused	% Unfused
7–10 months	Scapula	21		
"	Pelvis	5		
Subtotal <1yr		26		0
12–15 months	Radius,p	10		
15–18 months	Phalanx II	19	3	
15–20 months	Humerus,d	10	2	
20–24 months	Phalanx I	27	11	
Subtotal <2yrs		**66**	**16**	**20**
24–30 months	Tibia,d	9	4	
24–30 months	Metacarpal	6	4	
24–30 months	Metatarsal	2	8	
Subtotal <3yrs		**17**	**16**	**48**
36 months	Calcaneus	3	3	
36–42 months	Femur,p	3	2	
42–48 months	Humerus,p			
42–48 months	Radius,d	8	3	
42–48 months	Ulna,p		1	
42–48 months	Femur,d	1	2	
42–48 months	Tibia,p			
Subtotal <4yrs		**15**	**11**	**42**

ii) sheep/goat

		Fused	Unfused	% Unfused
3–4 months	Humerus,d	12		
3–4 months	Radius,p	15	1	
5 months	Scapula	11		
5 months	Pelvis	3		
5–7 months	Phalanx II	5	4	
7–10 months	Phalanx I	5	4	
Subtotal <1yr		51	9	15
15–20 months	Tibia,d	14	11	
20–24 months	Metacarpal	1		
20–24 months	Metatarsal	1		
Subtotal <2yrs		16	11	41
36 months	Calcaneus	1		
Subtotal <3yrs		1		0
36–42 months	Femur,p		2	
42 months	Humerus,p			
42 months	Radius,d	1	6	
42 months	Ulna,p	1	3	
42 months	Femur,d	2	3	
42 months	Tibia,p	1	4	
Subtotal <3$^{1}/_{2}$ yrs		5	18	78

iii) pig

		Fused	**Unfused**	**% Unfused**
12 months	Scapula	6	3	
12 months	Humerus,d	2	2	
12 months	Radius,p	10	1	
12 months	Pelvis	1	1	
12 months	Phalanx II	5	5	
Subtotal <1yr		**24**	**12**	**33**
24 months	Tibia,d	1	3	
24 months	Metapodial	4	12	
24 months	Phalanx I	1	13	
Subtotal <2yrs		**6**	**28**	**82**
24–30 months	Calcaneus	1	2	
Subtotal <3yrs		**1**	**2**	**67**
36–42 months	Ulna,p			
36–42 months	Femur,p		1	
42 months	Humerus,p		1	
42 months	Radius,d		1	
42 months	Femur,d		1	
42 months	Tibia,p		1	
Subtotal <3$^{1}/_{2}$ yrs		**0**	**5**	**100**

TABLE 78. INCIDENCE OF TAPHONOMY (*% of total assemblage NISP)

i) gnawing

	Gnawed		NISP
	n	%	
Horse	1	<1	24
Cattle	16	<1	1113
Sheep/goat	1	<1	643
Pig	10	<1	360
Dog	1	<1	13
Galliform	1	<1	10
Large mammal	2	<1	1030
Total	**32**	**<1 ***	**3650**

ii) butchery

	Chop	Cut	Chop & Cut	Total butchered		NISP
				n	%	
Horse		1		1	4	24
Cattle	18	27	5	50	4	1113
Sheep/goat	2	7		9	1	611
Pig	3	3		6	2	360
Galliform		1		1	10	10
Large mammal	21	23	2	46	4	1030
Medium mammal	4	6		10	2	413
Total	**48**	**68**	**7**	**123**	**3 ***	**3650**

iii) burning

	Black/brown	Brown	Calcined	Charred	Probably burnt	Total burnt		NISP
						n	%	
Horse				1		1	4	24
Cattle	12	18	6	9	1	46	4	1113
Sheep/goat		7	33	19	5	64	10	642
Pig		3	31	10	12	56	16	360
Dog		2			1	3	23	13
Galliform			1			1	10	10
Turdidae spp.			1			1	100	1
Bird			1			1	10	10
Rodent				1		1	20	5
Rana spp.				1		1	100	1
Amphibian		4				4	40	10
Fish				1		1	100	1
Large mammal		9	20	12	2	43	4	1030
Medium mammal		4	51	15	16	86	21	413
Small mammal			2	1		3	50	6
Total	**12**	**47**	**146**	**70**	**37**	**312**	**9 ***	**3650**

TABLE 79. ANIMAL BONE METRICAL DATA

i. mammal

Taxa	Element	Measurement					
		GL	*GLM*				
Horse	Astragalus	57.8	56				
Cattle	Astragalus	51.7	47.7				
Cattle	Astragalus	55.3	51.1				
Cattle	Astragalus	57.1	51.2				
Cattle	Astragalus	57.8	52.3				
Cattle	Astragalus	59.4	53.4				
Cattle	Astragalus	59.5	55.7				
Cattle	Astragalus		51.4				
Sheep	Astragalus	23.4	22.6				
Sheep	Astragalus	24.6	23.5				
Sheep/goat	Astragalus	22.4	21.9				
Pig	Astragalus	41.5	40.4				
		GL					
Pig	Calcaneus	69.5					
		Bp	*SD*	*Bd*	*Dd*		
Cattle	Femur	39					
Cattle	Femur	39.1 dc					
Sheep/goat	Femur		13.8				
Dog	Femur			32	33		
		SD	*Bd*	*BT*	*HT*	*HTC*	
Cattle	Humerus				35.2		
Cattle	Humerus				38.7		
Cattle	Humerus				40.2	28.4	
Cattle	Humerus					26.8	
Sheep	Humerus		25.2	24	15.6	15.3	
Sheep	Humerus		27.3	26.8	16.6	13.2	
Sheep	Humerus			25	14.9	11.2	
Sheep	Humerus			25.1	16.2	12.4	
Sheep	Humerus			25.3	16.5	12.4	
Sheep	Humerus					17	
Sheep/goat	Humerus	12.9					
Sheep/goat	Humerus			24.6	16.7	10.8	
Sheep/goat	Humerus				16	12.1	
Pig	Humerus		36.5	30.4	24.2	17.5	
Pig	Humerus				18.5	27.5	
		GL	*Bp*	*Dp*	*SD*	*Bd*	*B@f*
Cattle	Metacarpal	175	48.1		25.9	50.4	44.5
Cattle	Metacarpal		39.5				
Cattle	Metacarpal		42.2	26.5			
Cattle	Metacarpal		44.9				
Cattle	Metacarpal		45.4				
Cattle	Metacarpal		45.6	25.7			

Cattle	Metacarpal		46	28			
Cattle	Metacarpal		48.6	28.8			
Cattle	Metacarpal		48.8	31.5			
Cattle	Metacarpal		55.4	33.1			
Cattle	Metacarpal		56.4	34.9			
Cattle	Metacarpal		e45.7				
Cattle	Metacarpal					42.5	42.2
Cattle	Metacarpal					45.7	40.1
Cattle	Metacarpal					46	43
Cattle	Metacarpal						43.9
Sheep	Metacarpal					24	24.4
Sheep/goat	Metacarpal		17.7				
Sheep/goat	Metacarpal		18.5	14.5	11.2		
Sheep/goat	Metacarpal		18.8	14.2			
Sheep/goat	Metacarpal		19.8	13.8			
Sheep/goat	Metacarpal			18.4	11.9		
Sheep/goat	Metacarpal			21.2	14.9		
Sheep/goat	Metacarpal				11.1		
Sheep/goat	Metacarpal				13.9		
		GL	*Bp*	*Dp*	*SD*	*Bd*	*B@f*
Cattle	Metatarsal		34.8				
Cattle	Metatarsal		35	34			
Cattle	Metatarsal		37	35.9			
Cattle	Metatarsal		37.3	35.1			
Cattle	Metatarsal		39.3	41.5			
Cattle	Metatarsal		e34	34.2			
Cattle	Metatarsal			37.8	39.5		
Cattle	Metatarsal				23.2		
Cattle	Metatarsal				48.7		
Cattle	Metatarsal					44.8	41.9
Sheep/goat	Metatarsal		15.6	15.7			
Sheep/goat	Metatarsal		e17	e16.1			
Sheep/goat	Metatarsal				11		
Sheep/goat	Metatarsal				11		
Sheep/goat	Metatarsal						19.4
Dog	Metatarsal	64.3	8.3	12.3	6.5	6.9	7.8
		SD/LA/BG					
Dog	Pelvis	21.5					
		GL	*Bp*	*Bfp*	*SD*	*Bd*	*Bfd*
Cattle	Radius					54.2	45.7
Cattle	Radius					55.1	48.7
Cattle	Radius					56.5	49.4
Cattle	Radius					57	50.5
Sheep	Radius		29.4	27.2			
Sheep	Radius		27.6	26			
Sheep	Radius		28.4	25.6			

Sheep/goat	Radius		24.3	23.6			
Sheep/goat	Radius		26.2		14.2		
Sheep/goat	Radius				10.7		
Sheep/goat	Radius				13.2		
Sheep/goat	Radius				14.1		
Sheep/goat	Radius					22.7	19.5
Pig	Radius		23.4				
Pig	Radius		24.7				
Pig	Radius		24.8				
Pig	Radius		26.7				
Pig	Radius		27.1				
Pig	Radius		28.8				
Pig	Radius		e23.8				
Dog	Radius	82.4			8.8		15.3
		GLP	*BG*	*LG*	*SLC*		
Cattle	Scapula	50.9	34.3	44.1	37.2		
Cattle	Scapula	61.3	40.3	51.3			
Cattle	Scapula		33.5				
Cattle	Scapula		39	46.5	45.6		
Cattle	Scapula		40.8	48.7	44		
Cattle	Scapula			48.2			
Cattle	Scapula				41.7		
Cattle	Scapula				47.4		
Pig	Scapula	34	23.2	29.9	22.7		
Pig	Scapula	34.8	25.2	29.4	23.5		
Pig	Scapula	32.8			23.6		
Pig	Scapula				19.5		
Sheep/goat	Scapula	23.9	15.2	20.2	15.2		
Sheep/goat	Scapula	24.3	15.5	19.7			
Sheep/goat	Scapula	27.1	21.6	17.3	15.9		
Sheep/goat	Scapula	25.5	15.8	19.8	14.4		
Sheep/goat	Scapula		15.7				
Sheep/goat	Scapula				15.2		
Sheep/goat	Scapula				16.3		
		GL	*Bp*	*SD*	*Bd*	*Dd*	
Sheep	Tibia	e174		19.4	20.2	17	
Sheep	Tibia				21.5	16.9	
Sheep	Tibia				25.7	18.4	
Cattle	Tibia				51.7	39.9	
Cattle	Tibia				55		
Dog	Tibia		27.5				
Sheep/goat	Tibia			11.3			
Sheep/goat	Tibia				19.5		
		GL					
Dog	Ulna	100.3					

ii. galliform

Element	**Measurement**			
	Bp	***Dip***		
Ulna	8.2	11.9		
	GL	***Bp***	***SC***	***Bd***
Humerus	58.7	16	6.1	12.5
Humerus	58.7	16.1	6	12.4
	Dd			
Tibiotarsus	9.9			
	Bp	***Bd***		
Tarsometatarsus	10.4			
Tarsometatarsus		14		

APPENDIX 6

THE PLANT REMAINS

By Lisa Lodwick

TABLE 80. SUMMARY OF WATERLOGGED PLANT REMAINS FROM WELLS 10421 AND 8328 (+ PRESENT)

	Well	8328	8328	8328	8328	8328	10421	10421	10421	10421
	Context	9152	9258	9257	9309	9663	10438	10439	10441	10442
	Sample	3191	3195 3198	3216	3217	3322 3335 3341 3380	4068	4085	4141	4165
	Total sample volume/L	13	1	4	3.1	8.5	16	2	7	9.5
	Density (items/L)	14.3	357.0	108.5	565.2	86.0	4.3	10.5	131.6	63.4
Food plants										
Anethum graveolens	Dill				6					
Apium graveolens	Celery			1		1			8	1
Coriandrum sativum	Coriander				3				1	
Linum usitatissimum	Flax (seeds)				61					
Linum usitatissimum	Flax (capsule fragments)				38	8				
Olea europaea	Olive									1
Cereal chaff										
Triticum spelta	Spelt (glume base)				17	2				
Triticum spelta/dicoccum	Spelt/Emmer (glume base)				7	1				
Cereal bran					++	++				
Wild plants										
Disturbed ground										
Atropa belladonna	Deadly Nightshade	2	3	8					3	
Ballota nigra	Black Horehound			1	3				2	4
Hyoscyamus niger	Henbane				2				1	
Malva sylvestris	Common Mallow				6					
Sagina sp.	Pearlworts				57	2	64	2		3
Urtica dioica	Common Nettle		72	3	17			1	9	7
Disturbed (arable) ground										
Agrostemma githago	Corncockle		1		3	1				
Anthriscus caucalis	Bur Chervil	1			9					1
Aphanes arvensis	Parsley-piert		2		3			1	4	
Aphanes australis	Slender Parsley-piert		2		16					5
Atriplex sp.	Oraches			5						
Bromus secalinus	Rye Brome		1		8					
Capsella bursa-pastoris	Shepherd's Purse					61			224	307
Chenopodium album	Fat-hen			3	18	4			58	15
Chenopodium ficifolium	Fig-leaved Goosefoot								1	
Chenopodium polyspermum	Many-seeded Goosefoot		1	5						

	Well	8328	8328	8328	8328	8328	10421	10421	10421	10421
	Context	9152	9258	9257	9309	9663	10438	10439	10441	10442
	Sample	3191	3195 3198	3216	3217	3322 3335 3341 3380	4068	4085	4141	4165
	Total sample volume/L	13	1	4	3.1	8.5	16	2	7	9.5
	Density (items/L)	14.3	357.0	108.5	565.2	86.0	4.3	10.5	131.6	63.4
Chenopodiaceae indet.	Goosefoot family	26	17		6		2			1
Fallopia convolvulus	Black-bindweed								1	
Fumaria sp.	Fumitories	1			1				17	5
Lamium sp.	Dead-nettles								4	2
Legousia hybrid	Venus's-looking-glass			5						
Papaver argemone	Prickly Poppy	4	1							
Papaver rhoeas	Common Poppy	4	9	1				2	3	
Papaver somniferum	Opium Poppy	3	8	1			1	3	2	
Papaver sp.	Poppies							2		
Persicaria lapathifolia	Pale Persicaria				3					
Plantago major	Greater Plantain	1				1			1	2
Polygonum aviculare agg.	Knotgrass		1	1	82	152			205	62
Polygonum sp.	Knotgrasses		2		1					
Potentilla reptans	Creeping Cinquefoil				1					
Ranunculus sardous	Hairy Buttercup				2					
Sisymbrium sp.	Rockets								4	7
Solanum nigrum	Black Nightshade				5	1				1
Sonchus asper	Prickly Sow-thistle						1		1	
Spergula arvensis	Corn Spurrey				2				2	
Stellaria media gp.	Common Chickweed	2			14	2			141	76
Thlaspi arvense	Field Penny-cress				2	1				1
Torilis sp.	Hedge-parsleys				2					
Tripleurospermum inodorum	Scentless Mayweed				1				1	1
Urtica urens	Small Nettle		4	5	120	3			84	27
Valernianella dentata	Narrow-fruit Corn Salad	1								
Valerianella sp.	Cornsalads	1								
Viola subg. *Melanium*	Wild Pansey etc.								2	1
Grassland										
Centaurea nigra	Common Knapweed				1					
Filipendula ulmaria	Meadowsweet				6					
Hypochaeris sp.	Cat's-ears									4
Leontodon saxatilis	Lesser Hawkbit				1					
Leontodon sp.	Hawkbits				7					
Linum catharticum	Fairy Flax				7					
Ornithopus sp.	Bird's Foot				2					
Poaceae indet.	Grass	30	168		1201	28	679	719	75	39
Potentilla erecta	Tormentil		2		7					
Prunella vulgaris	Self Heal		1		24	1			5	1
Ranunculus acris	Meadow Buttercup				5					
Ranunculus repens	Creaping Buttercup		1	1	11				13	3
Rhinanthus minor	Yellow-rattle		1		10					
Rhinanthus sp.	Yellow-rattles				1	1				
Stellaria graminea	Lesser Stichwort				2				3	

	Well	8328	8328	8328	8328	8328	10421	10421	10421	10421
	Context	9152	9258	9257	9309	9663	10438	10439	10441	10442
	Sample	3191	3195 3198	3216	3217	3322 3335 3341 3380	4068	4085	4141	4165
	Total sample volume/L	13	1	4	3.1	8.5	16	2	7	9.5
	Density (items/L)	14.3	357.0	108.5	565.2	86.0	4.3	10.5	131.6	63.4
Trifolium sp.	Clover (flower)				1	11				
Trifolium sp.	Clover (calix)				3					
Viola sp.	Viola (capsule fragment)				1					
Heathland										
Calluna vulgaris	Heather				1	7				
Calluna vulgaris	Heather (shoots)				32					
Calluna vulgaris	Heather (seed capsules)				2					
Danthonia decumbens	Heath-grass				1					
Erica sp.	Heaths				15					
Ericaceae indet.	Heather (capsule)					2				
Ericaceae indet.	Heather (leaf)					1				
Pteridium aquilinium	Bracken (fronds)				815	263				
Pteridium aquilinium	Bracken (leaf stem)				3	7				
Pteridium aquilinium	Bracken (twigs)					5				
Sphagnum	Sphagnum (bud)				2					1
Sphagnum	Sphagnum (leaf)				7	18				2
Ulex europaeus	Gorse (spine)		2		13	146			1	
Wet ground										
Alisma plantago-aquatica	Water-plantain					1				
Alisma sp.	Water-plantains			1						
Apium nodiflorum	Fool's-water-cress		1		2				1	
Apium sp.	Marshworts		4							
Eleocharis palustris	Common Spike-rush	49	122	238	48	4		1	10	9
Isolepis setacea	Bristle Club-rush									4
Juncus effusus gp.	Tussock Rush	1		2	492	18	96	688	51	60
Lychnis flos-cuculi	Ragged-Robin				1					
Mentha aquatic	Water Mint		4	97	3				1	
Pulicaria sp.	Fleabanes					1				
Ranunculus flammula	Lesser Spearwort		1		14	1			1	
Ranunculus subg. *Batrachium*	Buttercups									1
Woodland										
Betula pendula/pubescens	Silver Birch or Downy Birch					5			3	
Corylus avellana	Hazel (nut shell)			1	4				2	5
Ilex aquifolium	Holly (leaf fragment)				1					
Malus sp.	Apples				1					
Prunus/Crataegus	Cherry/Hawthorn (thorny twig)								1	
Prunus spinose	Sloe			1	2				1	
Quercus sp.	Oak (wood)									1
Rubus sect. *Glandulosus*	Bramble	5	6	11	5	1		2	4	
Bark					1					
Deciduous tree leaf					1					

	Well	8328	8328	8328	8328	8328	10421	10421	10421	10421
	Context	9152	9258	9257	9309	9663	10438	10439	10441	10442
	Sample	3191	3195 3198	3216	3217	3322 3335 3341 3380	4068	4085	4141	4165
	Total sample volume/L	13	1	4	3.1	8.5	16	2	7	9.5
	Density (items/L)	14.3	357.0	108.5	565.2	86.0	4.3	10.5	131.6	63.4
Various										
Apiaceae indet.	Carrot family		1	1	2					1
Arctium sp.	Burdocks				2					
Asteraceae indet.	Daisy family								1	
Brassicaceae indet.	Cabbages				2				2	17
Carex sp.	Sedges	18	7	20	30			4	8	1
Cerastium fontanum	Common Mouse-ear				7					
Cerastium sp.	Mouse-ears									1
Conium maculatum	Hemlock				1					
Crepis capillaris	Smooth Hawk's Beard				1					
Daucus carota	Carrots				1					
Hypericum sp.	St John's-worts				5					
J. articulatus gp.	Creaping Rush	1			1994	45	16	112	112	67
J. indet	Rush	1		15	873	22	896	1312	89	48
Juncus bufonius gp.	Toad Rush	1			197	42	32	304	47	10
Mentha sp.	Mints	3	10		3					
Montia fontana ssp.	Blinks	0			2	13			59	14
Polygonaceae indet.	Knotweed family			1		1			22	1
Ranunculus sp.	Buttercups	1	2							
Ranunculus parviflorus	Small-flowered Buttercup				1				1	
Ranunculus subg. *Ranunculus*	Buttercups			3	1			1		1
Rumex acetosella agg.	Sheep's Sorrel		10	14	73			1	2	
Rumex conglomeratus	Clustered Dock				1					
Rumex sp.	Docks		4		25	1		1	1	
Sambucus nigra	Elder	10	18	5	16					2
Solanum dulcamara	Bittersweet									1
Solanum sp.	Nightshades	54	35	1						
Stellaria sp.	Stichworts		1							
Taraxacum sp.	Dandelion					1	1			1
Veronica sp.	Speedwells									1
Bud scale indet.		28	13	26	4			1	3	1
Buds indet.		2		3	1					1
Leaf abscission pad			1		3					
Moss (stem with leaves)	V	82	85			10	8			
Moss (leaves)	V							++	++	

TABLE 81. SUMMARY OF CHARRED PLANT REMAINS BY FEATURE GROUP FROM WHICH FOUR OR MORE SAMPLES WERE STUDIED (+ present)

Feature Group	Ditch 11631		Pit Group 1		Pit Group 2		Pit Group 3		Pit Group 4		Pit Group 10	
No. of samples	11		5		4		4		4		5	
Total sum of items	572		788		503		120		626		695	
	Sum	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**
Cereal grains												
Barley grain	133	100	6	60	21	75	7	50	49	75	13	80
Spelt grain	21	45	3	40	4	50			14	75	6	40
Spelt/Emmer grain	45	82	4	40	5	50	2	25	27	75	3	40
Emmer grain	3	27			1	25	1	25				
Spelt/Emmer grain sum	69	82	7	40	10	75	3	25	41	75	9	40
Cereal chaff												
Barley rachis	26	55			2	50			14	75	2	40
Emmer glume base	3	27					2	25				
Spelt glume base	142	82	1	20	19	100	3	25	13	75	61	80
Spelt/emmer glume base	110	91	2	40	15	50	11	50	14	75	38	60
Spelt/emmer glume base sum	255	91	3	40	34	100	16	50	27	75	99	80
Cereal indet. culm node	3	27									1	20
Cereal Coleoptile			1	20								
Pulse and oil crops												
Celery									1	25		
Flax	2	18	5	20	1	25					5	80
Pea/Bean	4	27			1	25	1	25	1	25	2	40
Collected wild resources												
Bramble/Blackberry	2	18							1	25		
Elderberry			3	20	1	25					1	20
Ericacae indet. seed capsules	7	27									118	80
Hazelnut shells	20	55	5	60	6	50	7	25	23	50	20	60
Wild taxa												
Anisantha sterilis					1	25						
Atriplex sp.	10	36			2	50					2	20
Atropa belladonna	2	9							2	25		
Avena sp.	44	73			8	50			91	75	7	40
Brassica sp.									2	25		
Bromus secalinus	170	100	25	80	18	25	4	25	60	75	28	60
Carex sp.	31	91	12	60	3	50	1	25	4	75	18	60
Cerastium fontanum	1	9										
Chenopodium album	93	82	1	20	5	75	3	50	1	25	13	60
Danthonia decumbens	5	9										
Eleocharis palustris	100	100	4	40	4	75	3	50	3	50	24	100
Fallopia convolvulus	1	9	1	20								

Feature Group	Ditch 11631		Pit Group 1		Pit Group 2		Pit Group 3		Pit Group 4		Pit Group 10	
No. of samples	11		5		4		4		4		5	
Total sum of items	572		788		503		120		626		695	
	Sum	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**
Filipendula ulmaria			1	20								
Galeopsis tetrahit												
Galium aparine	2	18	1	20	1	25						
Iridaceae indet.							1	25				
Isolepis setacea												
Juncus indet.			1	20					6	25		
Lamium sp.							1	25				
Lathyrus nissolia												
Linum catharticum			2	40					1	25		
Lychnis flos-cucli	1	9										
Malva sylvestris	3	18							5	25	8	80
Medicago lupulina	8	18	7	60	1	25			1	25	1	20
Medicago/Trifolium/ Melilotus	20	45	17	40	4	50	2	25	8	100	6	40
Montia fontana Ssp. Chondrosperma	3	18	1	20	1	25			1	25		
Odontites vernus							1	25			1	20
Onopordum acanthium	1	9										
Papaver rhoeas type							1	25				
Papaver somniferum	1	9										
Persicaria hydropiper	1	9										
Persicaria lapathifolia/ maculosa	14	55	1	2	1	25						
Plantago lanceolata	5	27			1	25	1	25	1	25	2	40
Plantago major	1	9							1	25		
Poaceae indet.	240	100	43	80	33	75	14	75	309	100	76	100
Polygonum aviculare agg.	36	82	1	20	3	50	2	50	7	75	6	6
Potentilla erecta			1	20								
Prunella vulgaris	1	9									2	40
Ranunculus s. *acris / bulbosus / ranunculus*	7	45			1	25					5	60
Reseda lutea												
Rhinanthus minor			1	20							1	20
Rumex acetosella agg.	24	64					2	50	6	50	17	100
Rumex sp. (not *acetosella*)	91	100	4	40	10	75	3	50	17	75	23	100
Scleranthus annuus	1	9										
Solanum nigrum	2	18							2	25	2	20
Spergula arvensis	1	9	2	20							2	40
Stellaria graminea	9	27									1	20
Stellaria media gp.	10	55	1	20	9	5			1	25	4	60
Tripleurospermum inodorum	7	45	2	40					6	50	2	40

Feature Group	Ditch 11631		Pit Group 1		Pit Group 2		Pit Group 3		Pit Group 4		Pit Group 10	
No. of samples	11		5		4		4		4		5	
Total sum of items	572		788		503		120		626		695	
	Sum	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**	**Sum**	**%**
Urtica dioica	4	27			1	25			1	25	2	20
Urtica urens												
Valernianella dentata											1	20
Vicia/Lathyrus	40	64	1	20	3	25	4	50	3	50	23	80
Bread/porridge/cereal							+	25	+	25		
Buds	67	82	3	40	1	25	10	100	5	50	9	80
Indet. vesicular lumps	+	18							+	50	+	20
Leaf abscission pads			1	20								
Stem fragments	+	9			+	25			+	25	+	20

APPENDIX 7

THE WOOD AND CHARCOAL

By Catherine Barnett

TABLE 82. WOOD CHARCOAL IDENTIFICATIONS

Key: s=sapwood, r=roundwood, t=twigwood, cf.=compares favourably with

Feature	Context	Sample	Context type	Comments	*Acer campestre*	*Alnus glutinosa*	*Alnus / Corylus type*	*Betula pendula/ pubescens*	*Cornus sanguinea/ mas*	*Corylus avellana*	*Euonymous europeus*	*Erica/Calluna*	*Fagus sylvatica*	*Fraxinus excelsior*	*Ilex aquifolium*	*Maloideae*	*Maloideae (Crataegus type)*	*Fabaceae eg Cytisus/ Ulex*	*Prunus spinosa*	*Prunus* sp.	*Quercus* sp.	*Quercus/ Castanea twigwood*	*Salix/ Populus* sp.	*Sambucus nigra*	*Ulmus* sp.	Unidentifiable	Unidentifiable twigwood	Total identified	other
Well 10421	10434	4015	charcoal rich dump in well overlies:	Small number of large mature pieces	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	14	0	0	0	3	0	0	21	0
Well 10421	10436	4029	charcoal rich dump in well overlies:	Some pieces vitrified, fragmented, others highly reflective	0	4	4	0	0	0	0	0	0	0	0	1	0	0	0	0	90 1s	0	0	0	0	3	0	100	Bark 1, hazel shell 1
Well 10421	10438	4068	charcoal rich dump in well overlies:	Small (residue only?) sample	0	3	3	0	0	4	0	0	0	0	0	1	0	0	0	0	54 1s	0	0	0	0	4	0	70	0
Well 10421	10439	4085	charcoal rich dump in well overlies:	Rich fragmented sample	0	4	0	1 cf.	0	3	0	0	0	0	0	0	0	0	0	0	89 1s	0	0	0	0	2	0	100	0
Well 10421	10441	4141	charcoal rich dump in well, first 2^0 fill	Highly fragmented, few useable pieces, included as part of a sequence	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	2	0	9	0

TABLE 82 (cont). WOOD CHARCOAL IDENTIFICATIONS

Feature	Context	Sample	Context type	Comments	*Acer campestre*	*Alnus glutinosa*	*Alnus / Corylus type*	*Betula pendula/ pubescens*	*Cornus sanguinea/ mas*	*Corylus avellana*	*Euonymous europeus*	*Erica/Calluna*	*Fagus sylvatica*	*Fraxinus excelsior*	*Ilex aquifolium*	*Maloideae*	*Maloideae (Crataegus type)*	*Fabaceae eg Cytisus/ Ulex*	*Prunus spinosa*	*Prunus* sp.	*Quercus* sp.	*Quercus/ Castanea twigwood*	*Salix/ Populus* sp.	*Sambucus nigra*	*Ulmus* sp.	Unidentifiable	Unidentifiable twigwood	Total identified	other
Well 8328	9309	3235	well fill		0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	24	0	1	0	0	10	0	40	
Well 8328	9258	3195	well fill		0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	2	0	0	10	0	40	
Well 8328	9257	3216	well fill		0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	7	0	14	
Well 8328	9152	3162	well fill		0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	3	0	0	13	0	50	
Well 8328	9170	2979	well fill		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	4	0	0	11	0	35	
Well 8328	9183	3025	well fill		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	3	0	0	5	0	15	
Well 8328	8486	2943	well fill		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Well 8328	8452	3024	well fill	Maloideae=cf. *Sorbus*	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	18	0	0	0	0	4	0	25	
Well 8328	8428	2722	well fill		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Ditch 11631	11111	7232	upper ditch fill	Upper/levelling deposit Oak rwd 3-5yr, dom by 3yr	0	0	0	2 2t	0	2r <5yr	0	0	0	0	2	2 3t	0	0	0	0	57 26r 2t	0	2	0	0	0	0	100	0
Ditch 11631	11650	6445/ 5956	upper ditch fill	Upper/levelling deposit above (12847) oak rwd 6mm 3yr	0	0	0	8	0	0	0	1 cf.	0	1	2	8	0	0	0	1	31 3r	0	0	1 cf.	2	0	0	58	0
Ditch 11631	12847	7621	charcoal dump in ditch	Discrete dump in upper levels of ditch, immediately below (11650), with pierced pot. V large no. tiny 1-2 yr twigs. Maloideae rwd (5 yr 3-6mm d)	0	3	0	4	0	1 cf.t	0	0	0	2	0	0	7r 40 cf. t	0	0	2	17 16r	0	0	0	0	0	0	92	0

Pit Group 2	11117	5425	pit fill of Pit 11131	Charcoal volume good but analysis limited by fragmentation	0	0	0	6	0	1	0	1	0	0	0	1	0	0	0	0	19 2r	0	0	0	0	0	0	30		0
Pit Group 2	12117	7140	pit fill of Pit 12179	Large volume but v fragmented, several pieces vitrified	0	4	10	2	0	12	0	0	0	0	0	0	0	0	0	0	52 5t	0	2	0	0	12	1	100		0
Pit Group 2	12714	6530	basal fill Pit 12696	Good condition, some large pieces	0	0	0	0	0	4	0	0	0	2	0	16 2 cf. t	0	0	0	0	74	0	2	0	0	0	0	100		Bark 1
Pit Group 3	15685	10897	Tree-throw 16630 fill assoc with scorched earth	14C on sapwood Single species incl mature and poss. juvenile (first few rings but too fragmented). 100 frags=<10% of sample, scan of rest shows also oak dominated Dated to 2566-2341 cal BC (3943+/-29, SUERC-65375)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98 2s	0	0	0	0	0	0	100		0
Pit Group 4	15138	10557	fill of Pit 15142	Good condition but small sample of small frags. Oak rwd 20mm, 7 yr	0	1	0	3	0	6	0	0	0	0	0	1	0	0	0	2 cf.	16 3 r	0	1	0	1 cf.	0	0	34		0
Pit Group 4	15140	10441	fill of Pit 15142	Large rich sample, several soft and friable, some fissured (burnt damp?), others have features obscured by mineral dep.	0	0	7	10	1	8 3 r (3-7yr) 1 t	1	0	1	5	0	1	0	2	0	0	48 6 r	0	4	0	0	0	2	100		Large parenchyma eg tuber 2 Bark 1 Thorn eg *Crataegus/ Prunus spinosa*
Pit Group 4	15693	11012	Pit 15684 1⁰ fill	Fragmentary. NB macros incl Ericaceae bud	0	1	0	8 7 r/t	0	1 1t	0	3 cf.	0	0	0	0	0	0	0	0	5	3 3yr	2	0	0	1	0	32		0
Pit Group 5	16484	11033	fill of Pit 16488	8 oak rwd frags=18mm d, 5 yrs, pieces appear straight, rod-like, rest fragmentary	0	0	0	4	0	12	0	0	0	4	0	0	0	0	0	0	30 46r 2s	0	2	0	0	0	0	100		Bark 1
Pit Group 7	15265	10329	Pit 15266 1⁰ fill	Oak rwd 3-6yr+, twigwood 2-3 yr. Some of the rest could also be rwd but too fragmented to tell.	0	1	0	8	0	0	0	0	0	0	0	0	0	0	1	1 cf.t	58 23 r 8 t	0	0	0	0	0	0	100		Bark 8
Pit Group 8	12461	6767	1⁰ fill of Pit 12462 ?cess	Small sample but used as poss. cess pit with metal objects and pot	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	4 1r	0	0	0	0	2	0	10	0	

TABLE 82 (cont). WOOD CHARCOAL IDENTIFICATIONS

Feature	Context	Sample	Context type	Comments	*Acer campestre*	*Alnus glutinosa*	*Alnus / Corylus type*	*Betula pendula/ pubescens*	*Cornus sanguinea/ mas*	*Corylus avellana*	*Euonymous europeus*	*Erica/Calluna*	*Fagus sylvatica*	*Fraxinus excelsior*	*Ilex aquifolium*	*Maloideae*	*Maloideae (Crataegus type)*	*Fabaceae eg Cytisus/ Ulex*	*Prunus spinosa*	*Prunus* sp.	*Quercus* sp.	*Quercus/ Castanea twigwood*	*Salix/ Populus* sp.	*Sambucus nigra*	*Ulmus* sp.	Unidentifiable	Unidentifiable twigwood	Total identified	other
Pit Group 8	12461	7616	also 1⁰ fill of Pit 12462 ?cess	Repeat (adjacent?) sample	1cf.	2 1 cf.	1 cf. t	2	0	3	1 cf.	1	0	3	0	0	0	0	0	0	83 1s 1t	0	0	0	0	0	0	100	Parenhyma 5
Pit Group 12	11687	5622	1⁰ fill of Pit 11721	As below	0	1t	0	0	0	3	0	0	0	0	1	3	0	0	0	0	9 2r	0	0	0	0	4	0	23	0
Pit Group 12	11680	5542/ 5543	2⁰ fill of Pit 11721	All oak rwd is small ≤5 yrs, 4 pieces 4 yrs 16mm d. Rest of oak also likely juvenile	0	0	0	0	0	1 1r 4yr	0	0	0	0	0	0	3	0	0	0	12 24r	0	0	0	0	0	0	41	0
Pit Group 13	11602	5594	9th fill of Well/Pit 11026 over:	C14 charcoal Small no. large pieces (100% IDd)	0	0	0	0	0	1 cf.	0	0	0	0	1	1	0	0	0	1	100	0	0	0	0	0	0	104	0
Pit Group 13	11603	5595	8th fill of Well/Pit 11026	C14 hazelnut shell/ spelt grains	0	0	0	7 1r 2t	0	2	0	0	0	0	0	1	0	0	0	0	40 3r	0	0	0	0	1	0	57	0

TABLE 83. WATERLOGGED WOOD IDENTIFICATIONS

Feature	Context	Find/Sample	Context type	Description, notes	*Alnus glutinosa*	*Cf. Alnus/ Corylus*	*Betula pendula/ pubescens*	*Corylus avellana*	*Quercus* sp.	*Salix/ Populus* sp.	*Taxus baccata*	Unidentifiable	Total no. frags ID
Well 8328	9152	SF 5343, SF 3160	Fill of well	'Wood Frag. Possibly worked, a possible stave with radial surface', identified by J. Watson 2010, since discarded	0	0	0	0	1	0	0	0	1
Well 10421	10442	SF 5731 & flot of 4165	Primary fill of well	'Multiple frags with bark'	0	0	0	1r 1cf.		1		5	8
Well 10421	10441	SF 5722 & flot of 4141	Secondary fill of well, above 10442	'Wood frags'. Small, fragmented, part mineralised and badly degraded, most unusable	0	2 1twig	1	0	0	0	0	0	4
Well 10421	10441	SF 5723	Secondary fill well, above 10441	'Wood possible shaped peg from well structure' On examination proved to be part charred, no clear evidence of working	1	0	0	0	0	0	0	0	1
Well 10421	10439	4085	Secondary fill well	Small sliver (offcut?) of wood	0	0	0	0	0	0	1	0	1

APPENDIX 8

THE GEOCHEMISTRY

By Samantha Cook

TABLE 84. SOIL MATERIAL ANALYSIS FROM FEATURES ASSOCIATED WITH PERIOD 0

Ditch 11631

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
11040	11580	5396	62	115	42	133	742	3076	43854	335298	12935	11952	25597	3717	2464	20201
		5407	20	39	22	50	371	1327	31370	384319	3146	7304	3075	3717	385	10136
		5429	18	36	21	49	296.8	1206	30206	386058	2841	6889	2574	3537	308	10136
11592	11615	5581	27	52	40	73	519.4	2412	34914	406315	2316	9379	7436	2878	770	17475
		5587	23	63	20	76	296.8	724	19890	417642	4152	5395	5935	2518	1001	8598
MEAN			30	61	29	76	445	1749	32047	385926	5078	8184	8923	3273	986	13309

Well 8328

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
9152	8328	2945	83	69	48	201		2412	61258	291024	30599	9878	16016	2938	308	37187
		3163	110	125	79	41		1749	31528	383097	9123	9048	8652	2758	462	17615
		3164	65	89	25	56	148.4	1809	33433	387374	9254	8467	8294	2998	385	18454
		3189	133	373	316	42		1267	23593	347706	4802	7720	15587	2398	231	11534
		3190	114	308	111	35		1447	25392	347612	3274	8384	13371	2638	154	11673
9170	8328	2980	86	112	44	42		1809	31264	381969	6155	8882	9081	2878	154	13700
9258	8328	3196	36	76	24	58		3438	49991	355461	7770	14527	10010	4077	231	18943
		3197	56	146	23	125	519.4	1689	30259	341831	22043	8633	22523	3237	539	18593
MEAN			85	162	84	75	334	1953	35840	354509	11627	9442	12942	2990	308	18462

Pits

Context	Fill of	Pit Group	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
11117	11131	3	5526	74	111	37	195	4303.6	19420	65966	271378	32032	12118	39826	4256	1386	38026
11118	11135	3	5235	31	62	45	101	593.6	965	20843	433340	3103	6723	6864	2638	924	12512
			5286	97	166	58	208	445.2	1447	24863	404811	5331	7636	11083	2638	924	14819
11671	11694	8	5298	18	48	33	80	1780.8	4885	44542	390664	918	19422	2431	4616	308	37746
			5730	98	125	41	250	445.2	1327	29095	385870	9745	7387	11083	2518	847	17335
11681	11694	8	5300	21	61	35	81	667.8	2051	34861	406362	3496	10873	3718	3057	462	24535
			5521	53	73	42	229	445.2	1086	25762	410404	7167	7138	8938	2518	539	15098
			5591	13	36	26	41	519.4	1508	31211	360208	16693	7802	21951	2698	847	22158
11715	11715	8	5734	14	40	30	85	1187.2	1990	34808	395787	3146	10956	4576	3537	308	20690
10587	0	9	4998	21	71	36	92	445.2	1146	25498	411297	4676	6806	5935	2518	385	13770
11757	11763	9	5884	79	115	45	191	816.2	2955	43748	339105	11318	11288	19877	3537	462	23137
11656	10770	2	5859	29	56	36	90	1038.8	1749	36448	373979	4763	9213	5792	3897	924	15308
11667	11725	2	5836	24	52	46	65	519.4	965	25180	420650	2229	6557	3003	2758	462	14819
11674	11670	2	5781	43	80	38	123	667.8	1809	33010	400816	5331	8466	8366	2938	1463	17894
11676	11701	2	5826	126	184	70	246	593.6	3196	46605	300095	12149	11205	28600	3357	2002	41730
11677	11701	2	5828	113	138	55	201	371	2593	40204	335627	9308	9213	21808	2818	2156	45854
11717	11719	2	5742	21	61	30	65	74.2	2111	40680	407631	2010	6972	3289	2398	385	18104
11718	11719	2	5744	43	80	45	154	371	2774	44806	366882	8478	9628	11154	2878	462	22648
9287	9347	1	3245	77	109	67	66	74.2	1990	33221	368903	11916	8135	16088	3297	2926	16706
10016	7643	1	4183	129	171	31	200	1038.8	2231	34967	365237	6984	9546	11941	3057	2618	19153
10048	7643	1	3839	103	194	213	107	890.4	1930	29941	326462	6242	10708	14229	3117	539	17964
10730	10746	1	4949	31	80	100	92	816.2	2352	46764	357811	5288	10292	7079	3597	2156	25583
10755	10746	1	5086	36	69	40	70	593.6	3196	41791	370971	10226	11952	10439	3117	847	30407
10731	11665	1	5407	20	39	22	50	445.2	2714	48668	360302	3977	10126	5577	3417	1078	22088
			5410	29	74	46	80	519.4	1267	27349	390147	2535	6723	4433	3177	770	9926
			5115	40	92	50	173	593.6	3377	49885	336144	9002	13197	12799	3837	770	28170
10779	11665	1	5552	27	40	36	119	0	1809	38141	409276	1967	5727	3003	1679	924	20061

TABLE 84 (cont.). SOIL MATERIAL ANALYSIS FROM FEATURES ASSOCIATED WITH PERIOD 0

Pits

Context	Fill of	Pit Group	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
			5567	19	62	27	59	0	1990	39834	397009	3627	6391	5363	1858	770	20690
10782	11665	1	5344	26	84	43	109	519.4	2051	38035	358234	11012	9047	13442	3177	1386	19922
			5572	64	143	40	232	519.4	2111	37929	353158	11537	8881	14658	3057	693	19432
11662	11665	1	5568	22	67	28	80	148.4	1025	23541	420603	5419	5644	7150	2038	847	14050
			5571	33	80	30	116	593.6	1809	32957	385541	10925	8632	16588	2758	539	19712
11663	10732	1	5574	32	72	33	140	74.2	603	17510	414399	2360	4316	2574	2098	154	7689
11428	11446	11	5513	26	57	36	75	296.8	2412	37824	366506	10138	9296	13728	2758	1078	26213
10773	11732	7	5820	32	56	53	102	667.8	1146	26820	415997	3671	7553	4362	2878	539	16007
10795	11700	4	5811	36	93	40	88	667.8	2955	44595	383520	3671	13197	6793	3717	1540	21459
11651	11720	4	5411	22	40	28	49	593.6	2473	35549	389818	5331	10126	9653	3057	2156	20061
9591	8575	14	3514		82			1409.8	1930	30470	375107	5238	9463	8509	3057	847	16566
			3515		72			890.4	1508	26873	380136	6155	7720	8294	2938	693	11813
9110	8580	14	3709	183	172	35	258	148.4	3196	36501	260286	26670	10293	48048	3537	2310	20830
9581	8580	14	3246	31	33	28	28		1086	22430	410968	3056	5562	2932	2458	1386	10275
9592	8580	14	4014	37	89	52	88	148.4	4342	57397	355837	4802	16602	7651	4496	1232	19292
9128	9606	14	3697	54	127	36	132		2714	37612	362746	10389	11123	12799	3357	1848	18454
9605	9606	14	3672	112	64	43	92		2412	35073	372287	10563	9878	13728	3477	462	17825
9618	9606	14	3730	110	168	54	170		2593	37242	364814	13837	10293	16517	3057	924	18873
			3745	71	104	32	152	222.6	3317	38353	334593	11742	11123	31174	3357	2926	22508
10402	10410	14	3516	69	189			1113	2774	39463	346860	10170	11206	15444	3597	3234	18454
			3517	77	185			1038.8	2231	33909	353863	10040	9878	17518	3297	3619	16776
			3518	77	170			1113	2171	33115	352641	9559	9712	16660	3057	3773	16287
			3519	60	168			1113	2292	33327	346954	11567	9795	19448	3237	2926	16986
10403	10410	14	3520	50	96			964.6	2171	31634	362135	8163	9214	12584	3057	2002	15168
			3521	51	106			816.2	2171	32428	364626	8163	9546	12799	3177	2079	15448
			3522	61	158			964.6	1990	28672	360772	8730	8716	16302	2758	2926	15098

			3523	69	166			1038.8	2352	34650	328389	11043	9961	22809	3417	4158	16846
10407	10410	14	3526	40	105			1187.2	2051	28672	370877	7595	9131	11011	3297	1078	13561
			3527	52	142			1038.8	2412	32322	362699	8599	9546	14086	3417	1694	15168
10409	10410	14	3528	53	132			964.6	1809	26820	368668	7726	8467	14157	2998	1771	12862
			3529	59	122			1038.8	1990	27614	363968	7726	8965	14372	3177	1540	13211
			3530	63	145			1038.8	1930	26767	353346	9996	8799	17661	3057	1848	15658
			3531	45	103			890.4	1990	31634	361759	8032	8965	12870	3237	1309	14050
			3532	42	93			1187.2	1628	27878	369937	7813	8467	11154	3417	1078	11813
MEAN				54	101	45	123	749	2434	34825	369987	8116	9366	12733	3102	1397	19267

Post-holes associated with Pit Group 2

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
11657	11658	5801	39	88	51	74	667.8	2774	47557	355132	4676	10790	8294	3597	1155	21459
11727	11726	5837	38	90	64	79	593.6	1870	33909	394142	4414	8715	6793	2818	924	18524
		5838	34	80	67	77	890.4	2292	43114	368903	3758	10209	5792	3717	924	20341
11742	11743	5867	34	72	46	75	742	2473	46023	360678	3933	10292	5649	3537	770	20341
MEAN			36.25	82.5	57	76	723	2352	42651	369714	4195	10002	6632	3417	943	20166

Trackway 1

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
10287	11106	5194	24	41	36	61	74.2	603	17087	425726	3496	4565	5077	1918	539	9786
11066	11105	5192	43	76	52	73	74.2	603	16505	423047	4064	4316	5863	1918	539	7829
11733	11734	5803	15	34	23	58	519.4	663	20843	426619	1792	5644	2074	2698	308	9157
MEAN			27	50	37	64	223	623	18145	425131	3117	4842	4338	2178	462	8924

Trackway 2

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
9198	9199	3045	41	68	47	47		1508	25921	411109	3579	7139	4076	2638	847	14539
		3046	47	64	58	37		1689	28143	398137	4540	8135	5148	3057	1001	14889
		3047	40	64	40	49		1689	26979	405798	4059	7471	4362	2818	924	13491
		3048	48	68	47	41		1809	29307	410639	4496	7720	5220	2758	1001	16007

TABLE 84 (cont.). SOIL MATERIAL ANALYSIS FROM FEATURES ASSOCIATED WITH PERIOD 0

Trackway 2

Context	Fill of	Sample	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
9220	9687	3121	35	51	38	53										
9261	9346	3170	53	91	45	78		2111	34385	384977	7028	8799	8795	2998	1463	17825
		3171	43	78	44	61		1749	29571	409135	5805	7305	7007	2578	1232	15867
9713	9741	3662	35	69	52	97	296.8	2412	39305	385259	6504	10293	6721	3537	693	17755
		3663	36	82	47	101	222.6	2051	34121	397244	7421	8799	7436	3117	1078	17475
9719	10024	3660	69	95	36	135	296.8	3016	47187	355414	12135	11040	13943	3837	1694	24815
		3661	88	116	40	143	222.6	2654	40257	359315	12178	10127	14443	3177	1540	22927
10036	10024	4023	68	102	37	138	1261.4	2835	43166	345873	6897	11372	13442	3597	1463	24605
		4024	68	101	42	129	1261.4	2473	33697	365331	3972	10625	6721	3297	1232	19502
10047	10079	3849	99	117	46	126	1038.8	3498	43166	350197	3317	12867	18376	3357	385	22997
10049	10055	3848	27	59	37	76	1113	2352	36289	352547	8424	9048	16445	2938	2618	19991
10087	10716	4103	39	89	33	99	1038.8	3317	39252	362699	3274	12535	5434	3417	308	22298
10703	10716	4175	26	61	49	78	519.4	1870	35443	387233	1571	6890	3289	2698	308	12652
10704	10724	4192	63	139	49	126	593.6	2714	41738	347706	9385	9629	13299	2758	1540	27121
10713	10724	4217	41	81	37	87	1038.8	3438	40416	339481	3274	13531	7365	3537	924	26422
10751	10758	5483	34	71	36	96	445.2	1749	32745	405798	4108	8383	5434	2878	1078	19153
11740	11741	5865	29	76	51	77	445.2	1327	28143	417689	3278	7055	4290	2518	770	21180
MEAN			49	83	43	89	700	2313	35462	379579	5762	9438	8562	3075	1105	19575
ALL SAMPLES MEAN			58	108	51	116	734	2378	34942	368193	8253	9375	12757	3089	1271	19174

TABLE 85. AVERAGE BACKGROUND ELEMENTAL CONCENTRATIONS FOUND IN OFF-SITE SAMPLES

	Cu	Zn	Pb	Sr	Na	Mg	Al	Si	P	K	Ca	Ti	Mn	Fe
MEAN	9.9	32.4	25.5	45	3413	4222	47372	369021	698	17391	2109	4167	616	22438