Late prehistoric settlement and post-medieval industrial activity on the route of the A3 Hindhead Improvement Scheme

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Table 4 Charred plant remains from the Middle/Late Bronze Age settlement (M15)

		Feature	3006	3006	40040	40146	40225
		Context	3008	3009	40041	40147	40226
		Sample	1	2	18	30	44
		Vol (l)	50	5	30	38	40
Cereals	***Common name***						
Hordeum vulgare L. sl (grain)	barley		4	5	27	2	5
Hordeum vulgare L. sl (rachiis frag)	barley		1	-	4	-	-
Hordeum vulgare L. sl (basal rachiis frag)	barley		-	-	-	1	-
Triticum cf *dicoccum* (Schübl) (grain)	emmer wheat		*3	1	3	1	1
Triticum cf *dicoccum* (Schübl) (glume base)	emmer wheat		10	12	4	1	3
Triticum cf *dicoccum* (Schübl) (spikelet fork)	emmer wheat		-	1	1	1	2
Triticum spelta L. (glume bases)	spelt wheat		-	1	-	-	-
Triticum dicoccum/*spelta* (grain)	emmer/spelt wheat		6	3	2	-	7
Triticum dicoccum/*spelta* (spikelet fork)	emmer/spelt wheat		7	7	1	1	1
Triticum dicoccum/*spelta* (glume bases)	emmer/spelt wheat		30	19	13	3	5
Triticum sp. (grain)	wheat		-	1	-	-	1
Cereal indet. (grains)	cereal		24	5	15	3	10
Cereal frag. (est. whole grains)	cereal		40	13	23	16	21
Cereal frags (basal culm node)	cereal		-	-	3	-	-
Other species							
Corylus avellana L. (fragments)	hazel		27 (2ml)	8 (1ml)	5 (1ml)	4 (1ml)	28 (2ml)
Chenopodium sp.	goosefoot		2	1	-	1	-
Persicaria lapathifolia/*maculosa* (L.) Gray/Gray	pale persicaria/redshank		3	1	-	-	-
Fallopia convolvulus (L.) À. Löve	black-bindweed		1	3	-	-	-
Rumex sp. L.	docks		4	-	-	-	-
Rumex acetosella group Raf.	sheep's sorrel		-	1	-	-	-
Erica cf *cinerea* capsule	bell heather		3	-	2	2	-
Crataegus monogyna Jacq.	hawthorn		-	1	-	-	1
Vicia L./*Lathyrus* sp. L.	vetch/wild pea		1	-	-	1	-
Medicago/*Trifolium* sp. L.	medick/clover		1	-	-	-	-
Medicago sp. L.	medick		-	-	1	2	-
Trifolium sp. L	clover		3	-	-	-	-

	Feature	3006	3006	40040	40146	40225
	Context	3008	3009	40041	40147	40226
	Sample	1	2	18	30	44
	Vol (l)	50	5	30	38	40
Genista sp. L./*Ulex* sp. L.	greenweed/gorse	-	-	-	1	-
Stachys arvensis L.	field woundwort	**1**	-	-	-	-
Veronica hederifolia L. (charred)	ivy-leaved speedwell	-	1	-	-	-
Galium sp. L. (small)	bedstraw	3	1	-	1	-
Brassicaceae (small indet.)	small grass seed	-	-		1	-
Poaceae basal culm node	grass	6	2	-	6	-
Poa/Phleum sp. L.	meadow grass/cats'-tails	1	-	-	-	-
Arrhenatherum elatius var. *bulbosum* (Willd) basal culm node	false oat-grass	-	-	-	1	-
Avena L./*Bromus* L. sp.	oat/brome grass	1	1	2	-	-
Small seed indet.		-	1	1	-	-
Bud		-	1	-	-	-

* = radiocarbon dated (table 1)

Table 5 Wood charcoal identifications from the Middle/Late Bronze Age settlement (M15)

Feature	3006	40192	40225
Context	3009	40194	40226
Sample	2	35	44
Charcoal 4/2mm	25/110ml	20/200ml	20/60ml
Alnus glutinosa	3	-	-
Betula sp.	-	-	2
Corylus avellana	9, ?2	-	7, 19 r*
Fraxinus excelsior	12	-	-
Pomoideae	4	-	5
Quercus sp.	63, 2 r	100	62
Unidentified	5	-	3
Total number frags used	100	100	100
Other remains	-	-	2 hazelnut shells

Key: r = roundwood; ? = compares favourably with; * = *c* 10 years

Table 6 Description of sediment sequence obtained from Core 2 in Boundless Copse, described according to Hodgson (1997). The surface of the core was at an altitude of 174.91m OD, located at SU 89960 36530.

Depth (m)	Full sediment description	Interpretation
0–0.39	5YR 2.5/2 dark reddish brown peat, common fine fleshy rootlets, some bits of bracken, also twigs/roundwood fragments up to 100mm. Abrupt boundary. Some large vertical roots (6–8mm diameter) found at 0.37–0.43 and 0.30m	Peat
0.39–0.68	5YR 2.5/2 dark reddish brown peat (but looks slightly redder than above), bottom 15cm oxidised and slightly darker (bottom of core section). Lots of fine fleshy rootlets, large chunk of wood at 0.66–0.69m. Some large vertical roots (6–8mm diameter) found at 0.37–0.43	Peat
0.68–0.73	Break in sequence between coring tubes	GAP
0.73–1.08	5YR 2.5/2 dark reddish brown peat. Lots of fine fleshy rootlets, small amount of sand in bottom few cm. Saturated. Abrupt to clear horizon.	Peat
1.08–1.17	10YR 3/3 dark brown sand, organic rich, occasional small stone, sharp to abrupt horizon. Within sediment were noted some large vertical roots penetrating into the underlying unit	Organic rich mineral horizon (colluviation)
1.17–1.20	10YR 2/2 very dark brown peat, with woody twigs, lots of rootlets. Abrupt boundary. Some angular stones 25mm	Peat
1.20–1.32	10YR 3/3 dark brown sand, organic rich, v common to abundant stones <30mm, slight darkening to basal 20mm. Clear boundary. Some large angular stones 30–40mm	Likely A horizon and start of peat initiation
1.32–1.45	2.5Y 5/3 light olive brown sand, abrupt boundary	E horizon
1.45–1.49	Darker horizon of sand, brown on initial cleaning turning rapidly dark grey within minutes. No visible plant remains. Likely sesquioxide rich B	Bs horizon
1.49–1.61	Gley 1 5/1 greenish grey fine to medium sand. Stonefree, some clay present	C/geology

Table 7 Radiocarbon dates obtained from peat deposits, Core 2, Boundless Copse (M9)

Depth (m)	Sample material	Lab code	$\delta^{13}C$ (‰)	Date BP	Calibrated date (2σ; 95.4%)
0.55	Waterlogged seeds (*Viola* sp., *Potentilla* cf *erecta*, *Carex* sp.)	SUERC-36567	-27.1	655±35	cal AD 1270–1400
0.91	Waterlogged seeds (*Montia fontana*, *Carex* sp., *Moehingia trinervia*, *Hydrocotyle vulgaris*, *Viola* sp., *Betula* sp.), *Alnus glutinosa* cone and male catkin	SUERC-36568	-25.0 *	700±35	cal AD 1250–1390
1.06	*Alnus glutinosa* twigwood	NZA-29067	-31.0	1284±35	cal AD 650–810
1.18	Bulk peat	NZA-29068	-29.6	1403±35	cal AD 580–680

Key: * = assumed $\delta^{13}C$

Table 8 Post-medieval wood charcoal identifications from Kilns 1 and 3

Feature	Kiln 1	Kiln 3
Context	15917	25519
Sample	49	53
Charcoal 4/2mm	90/70ml	30/30ml
Alnus glutinosa	2	-
Betula sp.	4	48 r*, 1 ? r
Corylus avellana	23, 8 r, 5 t	3
Fagus sylvatica	9, 3 ? r	16, 7 r
Fraxinus excelsior	3	2
Ilex aquifolium	2	?2
Juglans sp.	1, ?1	-
Pomoideae	16, 7 t	-
Quercus sp.	16, 2 r	9
Sambucus nigra	11	-
Ulmus sp.	1	-
Unidentified	1	3
Unidentified twigwood	10	9
Total no frags used	125	100
Other remains	-	7 thorns cf hawthorn/blackthorn

Key: R = roundwood; T = twigwood; ? = compares favourably with; * = 3–5yrs, one piece clearly coppiced: scar and two small branching fragments

Appendix 1: Fabric descriptions for Bronze Age pottery

FL1 sparse fine to very coarse poorly-sorted angular crushed calcined flint; moderate fine well-sorted micaceous quartz sand with red and black mineral grains, probably all naturally occurring.

FL2 moderate fine to very coarse poorly-sorted angular crushed calcined flint; micaceous sand with red and black mineral grains, probably naturally occurring.

FL3 common fine to very coarse angular crushed calcined flint; micaceous sand with red and black mineral grains probably naturally occurring.

FL4 common fine to very coarse poorly-sorted angular crushed calcined flint; some sub-angular and sub-rounded pebbles probably detrital; slightly micaceous.

FL5 abundant fine to coarse well-sorted angular crushed calcined flint; slightly micaceous sand matrix.

GR1 moderate medium to coarse sub-rounded grog; sparse fine to very coarse poorly sorted crushed calcined flint; micaceous sand matrix.

I01 moderate medium to very coarse iron oxides; sparse fine and medium crushed calcined flint; micaceous quartz sand matrix.

QU1 moderate fine well-sorted micaceous quartz sand with red and black mineral grains, probably all naturally occurring.

QU2 fine micaceous sand; occasional fine rounded quartz grains probably naturally occurring; occasional coarse angular crushed calcined flint probably accidental.