

Ancient Monuments Laboratory
Report 3/93

OLD WINDSOR, BERKSHIRE:
SLAG LISTING

J G McDonnell BTech PhD MIFA

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Summary

Ninety two kg of slag from the 1950s excavations were identified. The material included 62kg of smithing slag and 25kg of smelting slag, much of it apparently in redeposited contexts. Dating information is not yet available.

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Old Windsor, Berkshire Slag Listing
Dr Gerry McDonnell

1 List Headings and Slag Descriptions

This listing contains the ironworking residues from the 1950's excavation at Old Windsor, Berkshire. The slag was identified and classified by Dr Gerry McDonnell. The list headings and other relevant information are given below:

OW	Year of Excavation
CONTEXT	Context number, those containing numbers => 99999 and described as 'de-stratified' under the 'Layer' heading were from boxes that had lost this information due to a flood.
TRENCH	A descriptor of the trench. The letters describe either the main feature found in the trench, eg GD=Great ditch.
LAYER	A description of the layer, including colour. For 'De-stratified' see Context. The information contains some shorthand descriptions which can be clarified by cross-referring to site stratigraphical information.
TYPE	The type of feature, some are obvious, eg pit, others are unclear.

The remaining headings are those used in other slag reports.

Ferrous Diagnostic Slags and Residues

SMITH	Smithing Slag - randomly shaped pieces of silicate slag generated by the smithing process.
HB	Hearth Bottom - a plano-convex accumulation of silicate slag formed in the smithing hearth.
TAP	Smelting Tap Slag - silicate slag generated by the smelting process, i.e. the extraction of the metal from the ore. Tap slag is the most characteristic form of this slag.
SMELT	Smelting Slag - randomly shaped pieces of smelting slag. It lacks the characteristic ropey texture of tap slag. It is usually characterised by flowed surfaces and large charcoal impressions.

Non-Diagnostic Slags and Residues

- CIN Cinder - high silica-content slag that can either be formed in a zone between smithing slag and the hearth lining or by high temperature reaction between silica and ferruginous material. It can be ascribed to either the non-diagnostic slags or the diagnostic slags depending on the iron content and its morphology.
- FAS Fuel Ash Slag - A very high silica slag (usually >90% silica) formed under high temperature oxidising conditions by the reaction of siliceous material and fuel ash. It is a non-diagnostic slag which can be formed in any hearth or fire at sufficiently high temperatures.
- HL Hearth Lining - the clay lining of an industrial hearth, furnace or kiln that has a vitrified or slag-attacked face.
- ORE Fragments of iron ore.
- OTHER Other Material - which comprises fragments of fuel, ferruginous stones etc..
- OTYPE Description of the Other material.
- COMMENT Free comment.

2 Summary Interpretation

A total of 92.5kg of slags and residues were recorded. It is not known whether the material represents 100% recovery or if a sampling procedure was used. In two cases the LAYER information noted that the slag retained was a sample.

The total weight of smithing slag (HB+SMITH) comprised 66% of the total recovered. The majority of this slag occurred in small deposits, a few hundred grammes, and only twelve contexts exceeded 1kg, excluding those that have been de-stratified. Similarly the combined weight of TAP and SMELT slag comprised 25% of the total, but was present in only 36 contexts, of which 7 contained more than 1kg (excluding the de-stratified contexts). Over 60% of the stratified HL (1.9kg) derived from a single context (1.19kg), the remainder occurred in small deposits.

This pattern of slag deposits would suggest that much of it was re-deposited, and not in its primary context. There was insufficient data to assess whether there was more than one phase or period of iron smelting and/or

iron smithing activity. There is sufficient smelting slag to confirm the presence of on-site smelting of iron. The presence of tap slag and smelting slag (including one furnace bottom) is not characteristic of any particular period. Tap slag is recovered from sites dating from the Iron Age to Medieval Periods. The iron smelting may be 'constructional', ie a one-off operation associated with the construction of building(s). A comparative example would be the slags recovered from excavation of a Roman Villa site at Amersham Mantles Green, Buckinghamshire (McDonnell 1986), which provided sufficient evidence to support the hypothesis of an initial period of smelting and smithing associated with the construction of the site, followed by continual smithing during the occupation of the site.

The Thames Valley does not contain 'commercial' ore deposits. Berkshire was noted in Tylecote's original work (1962) as one of the six English counties lacking known sources. However, bog ores were probably available for small scale exploitation.

References

McDonnell, JG 1986 *The Ironworking slags from Amersham Mantles Green, Buckinghamshire*. Ancient Monuments Laboratory Report 4805

Tylecote, RF 1962 *Metallurgy in Archaeology*. Arnold London

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
0	260	ING EW TRAIL TRENCH IN GRANGE AREA 2 IN BOX		40	0	0	0	0	0	0	0	0		TRIAL TR IN GRANGE
58	0	PALACE AREA 58, SURF F AREA OF LARGE DARK PIT ON N EDGE O		270	0	0	0	0	0	0	0	0		
57	177	EXTREME SE PIT LV BLACK		450	0	0	0	0	0	0	0	0		1 LMP
58	99999 99999	DE-STRATIFIED		2000	500	1600	0	200	0	100	0	0		
55	99999 99999	DE-STRATIFIED POS GREAT DITCH AREA SAMPLE ONLY		1150	0	825	260	0	0	2250	0	0		HL MASS FIRED CLAY
53	99999 99999	UNSTRATIFIED		800	0	0	0	0	0	0	0	0		
56	99999 99999	DE-STRATIFIED		500	0	0	0	0	0	0	0	0		
57	99999 99999	DE-STRATIFIED		1500	750	0	0	0	0	100	0	0		
53	99999 99999	DE-STRATIFIED		4250	0	0	0	0	0	0	0	0		
53	263 A	LIII ROMAN TILE LEFT PIT 3 BEHIND 13:IX:53		50	0	0	0	0	0	0	0	0		ROMAN DATE
55	110 A+I	E HALF Lib OF DITCH (A DOUBTFUL =1????)		0	0	0	1075	0	0	0	0	0		
0	107 A+I	EMOST BAULK Lii OF E/W DITCH		0	0	0	775	0	0	0	0	0		
55	118 A+I	W SECTION DITCH Li		0	0	460	0	0	0	0	0	0		
55	121 A+I	W END Lib OF E/W DITCH		140	0	0	0	0	0	0	0	0		
55	106 A+I	Lia (TOP LAYER OF DITCH)		100	0	0	0	0	0	0	0	0		
55	109 A+I	Lib OF DITCH FINE BLACK HUMUS		400	0	0	0	0	0	0	0	0		
55	108 A+I	SW 1/4 DITCH Li		220	0	0	0	0	0	0	0	0		FRGS INCLS SMELT FRG

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	120 A+I	W END Lib OF E-W DITCH		40	0	0	0	0	0	40	0	0		
55	103 A+I	E/W DITCH Lii/iii		0	0	0	0	120	0	0	0	0		+ATTACHED SLAG&HL
55	102 A+I	EW DITCH Lii		0	0	0	280	0	0	0	0	0		smelt???
55	125 A+I	E/W DITCH Lib ROUND EDGE OF 12C PIT		10	0	0	0	0	0	0	0	0		
55	124 A+I	EW DITCH W SECTION Liv EARTHY GRAVELY		0	0	0	0	20	0	0	0	0		
55	122 A+I	E/W DITCH W SECTION Liii YELLOW GRAVELLY		30	0	0	0	0	0	0	0	0		
55	123 A+I	E/W DITCH 1ST&2ND SKIMMING		50	0	0	0	0	0	0	0	0		
55	119 A+I	W END Li OF DITCH		30	0	70	0	0	0	0	0	0		
55	116 A+I	E/W DITCH W END LII		0	0	0	0	20	0	0	0	0		
55	98 A+I	E/W DITCH Lii fudgy yellow loam charc flaked		15	0	0	0	0	0	0	0	0		
55	112 A+I	E/W DITCH MOD SECTION Lii FUDGY YELLOW CHARCOAL FL	ECK S LOAM	190	0	0	0	0	0	0	0	0		
55	104 A+I	NE QUARTER Li		0	0	0	350	0	0	0	0	0		SMELT?
57	105 A+I	ID/57/2 DITCH LI		180	0	0	0	0	0	0	0	0		PART HB OR CALE?
55	100 A+I	EW DITCH Lii		20	0	0	0	0	0	0	0	0		
55	101 A+I	Lii OF EW DITCH		100	0	0	0	0	0	0	0	0		
55	99 A+I	E/W DITCH Lii ROUND N EDGE OF 12C PIT		100	0	0	0	0	0	0	0	0		
55	97 A+I	E/W DITCH Lii		0	0	0	0	80	0	0	0	0		
55	96 A+I	E/W DITCH BASE OF BLACK Lii		90	0	0	0	20	0	0	0	0		
55	93 A+I	E/W DITCH MIDSECTION Lib/ii		90	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	92 A+I	E/W DITCH Lib OVER(?) EARTH OVERLYING YELLOW HEAVI	LY ETC	50	0	0	0	0	0	0	0	0	0	
55	115 A+I	E/W DITCG W END LI		100	0	0	0	0	0	0	0	0	0	
58	111 A+I	DITCH JNCT OF BLACK & YELLOW FUDGY LAYERS		0	0	500	0	0	0	0	0	0	0	1 LMP
58	91 A+I	E/W DITCH LI & II POS DIST SEWER TRENCH		420	0	245	0	0	0	0	0	0	0	
55	119 A+I	E/W DITCH Lia W SECTION		80	0	0	0	0	0	0	0	0	0	
55	126 A+I	E/W DITCH BASE OF Lii POS SOME FROM TOP OF Liii		60	0	0	0	0	0	0	0	0	0	
55	95 A+I	E/W DITCH Lii TOP SKIM YELLOW LOAMY CHARC FLECKE	D	0	0	70	0	0	0	0	0	0	0	
55	113 A+I	E/W DITCH W END		0	0	60	0	40	0	0	0	0	0	
55	149 A+I	Lc OCCUPATION LAYER		0	0	120	0	0	0	0	0	0	0	
54	160 A+I	LEVEL I OF DITCH ADJACENT TO N SIDE OF AI NE PIT		20	0	0	0	0	0	0	0	0	0	
55	159 A+I	SE QUADRANT Li		20	0	0	0	0	0	0	0	0	0	
55	135 A+I	E END Lia		180	0	0	0	0	0	0	0	0	0	
55	140 A+I	E HALF BASE OF Lii		40	0	0	0	0	0	0	0	0	0	
55	147 A+I	Lib FINE BLACK HUMUS		340	0	0	0	0	0	0	0	0	0	
55	133 A+I	E SECTION Li RUNNING US OVER E/W DITCH FINE BLACK HUM		180	0	0	0	0	0	0	0	0	0	
55	145 A+I	Lic CLEARANCE OF MID BAULK NE OF 12C PIT		120	0	0	0	0	0	0	0	0	0	

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	155 A+I	NE QUARTER Li		70	0	0	0	0	0	0	0	0		
55	154 A+I	NE QUAD Li		200	0	0	0	0	0	0	0	0		
55	154 A+I	Lib OF EW DITCH		100	0	0	0	0	0	0	0	0		
55	150 A+I	Lc/i		230	0	0	0	0	0	0	0	0		
55	144 A+I	Lib MID E SECTION		60	0	0	0	0	0	0	0	0		
55	152 A+I	Li SE QUARTER		80	0	0	0	0	0	0	0	0		
55	161 A+I	LIII OVERLYING PIT OR DITCH		30	0	0	0	0	0	0	0	0		
55	162 A+I	Li OF 12C PIT TO 24" FROM GRASS LEVEL		130	0	0	0	0	0	0	0	0		
55	0 A+I	2iii		0	0	0	1850	0	0	0	0	0		I LMP SMITH?
55	128 A+I	E END LI		20	0	0	0	0	0	0	0	0		
55	146 A+I	REMOVAL OF MID BAULK NE OF 12C PIT Lia		45	0	0	0	0	0	0	0	0		
55	153 A+I	Li SE QUARTER		105	0	0	0	0	0	0	0	0		
55	158 A+I	Li NE QUAD		750	0	0	0	0	0	0	0	0		
55	151 A+I	Lc DARK OCC LAYER UNDER GRAVEL BLANKET LAYER		0	0	190	0	0	0	0	0	0		
55	156 A+I	Li NE QUARTER		440	0	0	0	0	0	0	0	0		
55	163 A+I & A	BAULK BOT OF LAYER 6 & TOP OF LI OF PIT		30	0	0	0	0	0	0	0	0		
58	317 A+I DITCH	LI		0	0	0	0	0	0	1190	0	0		
55	132 A+I E 1/2	Li OF DITCH ON N EDGE OF DITCH		0	0	330	0	0	0	0	0	0		
55	134 A+I E END	Lia INTRUSIVE FEATURE UNDERLYING		130	0	0	0	0	0	0	0	0		
55	129 A+I E END	L(c)		70	0	0	0	0	0	0	0	0		
55	131 A+I E END	Lia		70	0	0	0	0	0	0	0	0		
55	127 A+I E END	LI		0	0	0	0	20	0	0	0	0		
55	141 A+I E END	Lii TOP SKIMMING		390	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	138 A+I E END	Lib		410	0	0	0	0	0	0	0	0		
55	137 A+I E END	Lii E/W DITCH CHARC FLEK FUDGY YELLOW LOAM		700	0	0	0	0	0	0	0	0		FRAGS
55	130 A+I E SECT	JNCT OF Lc&i		120	0	0	0	0	0	0	0	0		
55	136 A+I E SECT	Lib FINE BLACK HUMUS OVERLING Lii		160	0	0	0	0	0	0	0	0		
55	157 A+I W END	PIT OR PH IN NE CORNER OF N EXTENSION		0	0	0	0	40	0	0	0	0		
58	114 A+I/57	LI W END OF CUTTING		0	0	130	0	0	0	0	0	0		
54	176 A3	ii		70	0	0	0	0	0	0	0	0		
54	300 A5	i - ii		40	0	0	0	0	0	0	0	0		
54	304 A5	Liiia SURFACE OF ?DITCH		80	0	0	0	0	0	0	0	0		
54	94 AI	EW DITCH Lii SANDY SILT		30	0	0	0	0	0	0	0	0		
54	164 AI	NE PIT LA		50	0	0	0	0	0	0	0	0		
54	142 AI XXX			90	0	0	0	0	0	0	0	0		
55	143 AI/54	Li/ii N HALF OF 12C PIT		15	0	0	0	0	0	0	0	0		
54	170 AII	PIT I LI NW QUAD		10	0	0	0	0	0	0	0	0		
54	172 AII	L iiii TOP OF PIT IN BE CORNER OF SQ		0	0	0	0	0	0	20	0	0		
54	171 AII	PIT I L V NW QUAD BLACK XXXX EARTH		30	0	0	0	0	0	0	0	0		
54	287 AIV	PIT IN SE CORNER LII OF PIT		0	0	0	0	0	0	60	0	0		
54	288 AIV	LIII SE CORNER OF SQUARE		40	0	0	0	0	0	0	0	0		FLOWED.TAP????
54	289 AIV	LIII		30	0	0	0	0	0	0	0	0		
54	290 AIV	LV IN SW CORNER OF SQUARE		15	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
54	291 AIV	SE PIT LV BOTTOM LAYER	SE PIT	15	0	0	0	0	0	0	0	0		
54	292 AIV	LV SW CORNER ALMOST DIRECTLY BELOW 12C PIT BASE	12-14"DEEP	150	0	0	0	0	0	0	0	0		
54	293 AIV	SW CORNER LVI		0	0	0	0	0	0	30	0	0		
54	301 AV	Liii		60	0	0	0	0	0	0	0	0		
54	302 AV	Liii SURFACE OF DITCH?		460	0	0	0	0	0	0	0	0		
54	303 AV	TOP OF DITCH Liiia		210	0	0	0	0	0	0	0	0		
54	305 AV	LIV E SIDE OF TRENCH		220	0	0	0	0	0	0	0	0		
54	306 AV	LIV GRAVELY EARTH ON S SIDE OF SQUARE 2'0"-2'3"		70	0	0	0	0	0	0	0	0		HIGH FE%
54	166 Aa	Li		100	0	0	0	0	0	0	0	0		
55	267 B	LVIII 5'4" - 5'9" N END OF TRENCH		110	0	0	0	0	0	0	0	0		
53	268 B	LIII SOFT DARK EARTH LEVELS IN THIN BAND BETWEEN GRAVEL		10	0	0	0	0	0	0	0	0		
53	269 B	LIX 5'9" - 6'3"		20	0	0	0	0	0	0	0	0		
55	38 BUT b	GREAT DITCH Li		40	0	0	0	0	0	0	0	0		
55	36 BUT b	LB GREAT DITCH CUTTING		140	0	0	0	0	0	0	0	0	80 SLAG	ATTACKED STONE
54	999999 DE-STRAT	DE-STRAT		825	0	0	0	0	0	0	0	0		
54	271 G	A 2 A=SUPERSCRIPIT		625	0	0	0	0	0	0	0	0		2 LMPS SUB HBS
54	272 G	EXEiii LII		25	0	0	0	0	0	0	0	0		
54	276 G	LOWER LEVEL OF PIT AT W END OF TRENCH SLAG FROM	BOTTOM	40	0	0	0	0	0	0	0	0		
54	277 G	EXTRA i & PART OF ii PIT PIT CENTRED ON NW CORNER OF i		80	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	CTYPE	COMMENT
54	34 G EXTN iii	BLACK LAYER OVER BURNT CLAY LAYER		50	0	0	0	0	0	0	0	0		
54	75 GD	LIII PIT A	PIT A	0	0	0	0	50	0	0	0	0		
55	45 GD	LIII BUTTERFLY b		100	0	0	0	0	0	0	0	0		
55	46 GD	Liiia BUTTERFLY b		200	0	0	0	0	0	0	0	0		
55	35 GD	BUT b Lc YELLOW LOAMY CAPPING		160	0	0	0	0	0	0	0	0		
55	47 GD BUT b	Liv BLACK GRAV AYER SANDY MATRIX ETC		290	0	0	0	0	0	0	0	0		
55	40 GD BUT b	Lii		300	0	0	0	0	0	0	0	0		1 LMP EMB HB
55	48 GD1		MS/II	180	0	0	0	0	0	0	0	0		
55	49 GD1	GDI/MS/VIII	MS/VIII	270	0	0	0	0	0	0	0	0		1 LMP SMITH???
55	50 GD1	GDI/MS/15	MS/15	370	0	0	0	0	0	0	0	0		
55	51 GD1	GDI/MS/16	MS/16	30	0	0	0	0	0	0	0	0		
55	52 GD1	GDI/MS/17	MS/17	140	0	0	0	0	0	0	0	0		
55	53 GD1	GDI/MS/17A	MS/17A	70	0	0	0	0	0	0	0	0		
55	54 GD1	GDI/MS/20 CHARCOAL FLECKED GREY CLAY	MS/20	0	0	0	0	20	0	0	0	0		
55	55 GD1	GDI/MS/20		90	0	0	0	0	0	0	0	0		
55	58 GD1	GDI/GROUP II	GP2	120	0	0	0	0	0	0	0	0		
55	59 GD1	GDI FROM CHALK TRAIL DOWN NE BANK OF DITCH		60	0	0	0	0	0	0	0	0		
55	60 GD1	GDI BOTTOM SAND LAYER OVER PRIMARY GRAVEL SILT		0	0	0	0	100	0	0	0	0		
55	63 GD1	BASE Lb ?LAYER c LAYER OF MIXED GRAVEL UNDER BLANK	ET LAYER	10	0	0	0	0	0	0	0	0		
55	66 GD1	DARK LAYER BELOW Ic OVERLING SANDY SILT		220	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	70 GD1	TOP OF Liii DARK EARTH REMAINING ON DARK CHARCOAL		120	0	0	0	0	0	0	0	0		
55	76 GD1	Li OF PIT CUT FROM LEVEL OF TOP OF DITCH Liii		100	0	0	0	0	0	0	0	0		
55	77 GD1	Liii OF HUT ON S BANK WITH CHARC OF DITCH BLACK SOIL FLECKED W		450	0	0	0	0	0	0	0	0		
55	90 GD1	Lia A-SUPERSCRIP TOP OF 3 SUB LAYERS MUCH R TILE		1075	0	0	0	0	0	0	0	0		3 LMPS
55	61 GD1	Lil 1-SUPSCRPT UPPERMOST OF 3 INTERMIT LAYERS N SI	CONT 816	40	0	0	0	0	0	0	0	0		
57	84 GD1/NX	LIV		0	1425	0	0	0	0	0	0	0		HB OR CAKE APP1/2
57	89 GD1/NX	N STRIP E END OF STRIP AT 4' APP. GREY CHARC FLEKE	D CLAY	500	0	0	750	0	0	0	0	0		SMELT 1 LMP ROPE US
55	57 GDI	LOWEST EARTH LAYER ADJACENT TO RECUT CONT 790		50	0	0	0	0	0	0	0	0		
55	62 GDI	Lilb CHEESY BLACK LAYER CONT 821(?)		360	0	0	0	0	0	0	0	0		
55	73 GDI	LII CONT 835		120	0	0	0	0	0	0	0	0		
55	69 GDI	Liaa GROUP GDI/5 CONT=838		875	0	0	0	0	0	0	0	0		
55	67 GDI	Lid CHEESY BLACK WATERFORMED CLAY SLIGHT FERRUG MOT	T CONT=920	30	0	0	0	0	0	0	0	0		
55	68 GDI	Lid CHEESY BLACK WATER FORMED CLAY CONT=920		180	0	0	0	0	0	10	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	37 GDI	BUT b Li		250	0	0	0	0	0	0	0	0		
55	0 GDI	LII ITEM 311 RECORD CARD 21 "BLOOM"		0	0	0	4625	0	0	0	0	0		FB 210*160*130
55	56 GDI/MS21	GDI/MS/21 YELLOW SLIGHTLY CLAYEY SAND CONT=1129		1000	0	0	0	0	0	0	0	0		I LMPSMELT?
57	79 GDI/NX	CONT=975		70	0	0	0	0	0	0	0	0		
57	80 GDI/NX	S STRIP E END LAYERSII/III CONT=1001		110	0	0	0	0	0	0	0	0		
57	86 GDI/NX	PROBABLY ALL FROM LIII & IV DUMP CONY=1006		460	0	0	0	0	0	0	0	0		RESC FROM DUMP!!!
57	82 GDI/NX	BLACKPIT N OF BEAM B CONT=1055		390	0	0	0	0	0	0	0	0		
57	0 GDI/NX	LIV ITEM 313 RECORD CARD 21 "BLOOM"		0	1950	0	0	0	0	0	0	0		OR CAKE?
57	0 GDI/NX	L IV ITEM 312 REC CARD 21 'BLOOM"		0	1675	0	0	0	0	0	0	0		HB OR CAKE
57	78 GDI/SWX	PIT SWI (BONE WORKERS PIT) CONT=1161		0	0	0	0	0	0	0	15	0		BONE PIT BURNISHERS?
57	0 GDI/SX	W EDGE OF DITCH LI ITEM 314 REC CARD 21 "BLOOM"		0	900	0	0	0	0	0	0	0		
55	42 GDII	Lii DARK GREY BROWN HUMUS BUTTERFLY b GRAVEL OYST	ER ETC	120	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	43 GDII	BUTTERFLY b LIib DARK V SLIGHTLY GRAVELLY SANDYSOI	L	0	0	0	0	30	0	0	0	0		
55	39 GDII	BUT b Lia DARK-BROWN BLACK MED GRAVELLY		1075	0	0	0	0	0	0	0	0		2 LARGE LMPS
55	46 GDII	BUT Ab Lii grey-brown sandy humus		50	0	0	0	0	0	0	0	0		
55	44 GDII	Lii(b) CUTTING II BUT b DARK GREY SLIGHT GRAVEL E	TC	250	1200	0	0	0	0	0	0	0		
55	32 GDIII	Liii GROUP GDIII/3 SANDY HUNUS BUTTERFLY a		20	0	0	0	0	0	0	0	0		
55	30 GDIII	Lia E FACE BUTTERFLY (a)		575	0	0	0	0	0	0	0	0		
55	29 GDIII	BUTTERFLY a MIXED LAYER AT JNCT OF MAIN DITCH & TR	IB80	0	0	0	0	0	0	0	0	0		
55	31 GDIII	BUT a Lii SW QUARTER		100	0	0	0	0	0	0	0	0		
55	28 GDIII	GDIII/7 BUT A		320	0	0	0	0	0	0	0	0		
55	0 GDIII	BUT a Liii OF TRIB DITCH SAME AS GDIII/iii		350	0	0	0	0	0	0	0	0		1 LMP
55	27 GDIII	BUT a W DACE GDIII/6		390	0	0	0	0	0	0	0	0		1 LMP
54	167 HUT I	FROM ABOVE BURNT CLAY LEVEL		30	0	0	0	0	0	0	0	0		
54	139 I(S)	E EXTR PIT i/ii JNCT		40	0	0	0	0	0	0	0	0		
57	0 ID/57/3	Lc CENTRAL PORTION		290	0	0	0	0	0	0	0	0		
57	0 ID/57/3/W	Lc		0	0	210	0	0	0	0	0	0		
57	0 ID/57/III	Lc SW CORNER		70	0	0	0	0	0	0	0	0		
57	0 ID/57/III	Lc SW CORNER		390	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
57	0 ID/57/III	Lc W END SLAG FROM BASE OF CRUCIBLE		0	1050	490	0	0	0	0	0	0		
57	0 ID/57/III	Lc SE CORNER ASSOC WITH 6 LARGE BAGS OF R TILE		0	0	1225	0	0	0	0	0	0		
58	0 ID/X/58	Lia PIT IV PALACE IN LINE WITH N WALL OF BLDG F A	T S END	20	0	0	0	0	0	0	0	0		
58	0 ID/X/58	PALACE AREA SE MOST EXTN SURF OF BLACK PIT/DITCH		850	0	20	0	0	0	0	0	0		
58	0 ID/X/58	PIT VI SW CORNER		2225	0	2650	0	0	0	0	0	0		SMITH POSSMELT?
58	0 ID/X/58	SW CORNER OF AREA SMALL CONC OF SLAG ADJACENT TO P	IT	0	0	3125	0	0	0	0	0	0		A SAMPLE ONLY!!!!
55	278 II	II/55/X3 LC/i		0	0	20	0	0	0	0	0	0		ANALYSE?
55	281 II	II/55 Li BLACK FINE EARTH BELOW THIN GRAVEL TIP		20	0	0	0	0	0	0	0	0		
55	282 II/55	BOTTOM OF E/W DITCH		0	0	160	0	0	0	0	0	0		ANALYSE?
55	283 II/55/X	Lii OF E/W/ DITCH	OF EW DITC	30	0	0	0	0	0	0	0	0		
54	173 II/AII BLK	SQII PIT LA		35	0	0	0	0	0	0	0	0		
54	172 II/AII BLK	L I OF PIT(S)		0	0	70	0	0	0	0	0	0		
54	316 II/AII BLK	SQ II PIT LAYER F 2ND HALF OG BLK		65	0	0	0	0	0	0	0	0		
54	315 II/AII BLK	SQ II PIT LAYER E		0	0	0	0	0	0	90	0	0		
54	294 IV(N)	DITCH SE CORNER Li	DITCH	20	0	0	0	0	0	0	0	0		
54	295 IV(N)	DITCH IN SE CORNER Lii BOTTOM		20	0	0	0	0	0	0	0	0		
54	296 IV(N)	SW CORNER LAYER I OF OF HOLLOW SILT FILLED HOLLOW		50	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
54	297 IV(S)	TOP LAYER OF DITCH AT SWELLING OR PIT		60	0	0	0	0	0	0	0	0		
57	186 OD/1/57/X	LI CEBTRAL PIT OR CELLAR QUAD d DARK HUMUS MASTER	SERIES?	310	0	0	0	0	0	0	0	0		
57	187 OD/1/57/X	Li CENTRAL PIT QUAD b		100	0	0	0	0	0	0	0	0		
57	209 OD/1/57/X	Lc GENERAL FINAL NW EXTN		100	0	0	0	0	0	0	0	0		
57	189 OD/1/57/X	LIII CENTRAL PIT OR CELLAR DARK OCCASIONAL SOIL		525	0	0	0	0	0	0	0	0		2 LMPS
57	188 OD/1/57/X	Lib CENTRAL PIT OR CELLAR QUAD d		240	0	0	0	0	0	0	0	0		
57	207 OD/1/57/X	Li CHEESY TO BLACK LOAM E MOST GRAVE LIKE FEATURE		20	0	0	0	0	0	0	0	0		
57	197 OD/3/57	PIT I QUAD a LAYER i SUPERSCRPT a		600	0	0	0	0	0	0	0	0		
57	195 OD/3/57	PIT i MISC UNSTRAT		0	0	0	0	30	0	0	0	0		
57	204 OD/3/57	Li PIT XIV SW QUAD		20	0	0	0	0	0	0	0	0		
55	210 OD/55/1	L C/I OCCUPAT LAYER OVER GRAVEL SUB SOIL		90	0	0	0	0	0	0	0	0		
57	182 OD/57/1	L2 & 3 PIT IN NW CORNER RECUT PIT		45	0	0	0	0	0	0	0	0		
57	203 OD/57/3	PIT IX S HALF		550	0	0	0	0	0	0	0	0		1 LMPSMELT?
57	181 OD/57/3	Li N-S DITCH (N)		60	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
57	180 OD/57/3	LI SECTION II WESTERN NS DITCH (a)		150	0	0	0	0	0	0	0	0		
57	178 OD/57/3	LI SECTION III WESTERN N-S DITCH (a)		100	0	0	0	0	0	0	0	0		
57	200 OD/57/3	PIT VI QUAD a JNCT OF Li/ii		80	0	0	0	0	0	0	0	0		
57	202 OD/57/3	PIT IX JNCT OF Li/ii		0	600	0	0	0	0	0	0	0		
57	205 OD/57/3	Li PIT XIV QUAD d		0	0	150	0	0	0	0	0	0		
57	179 OD/57/3	SWCTION I LAYER I WESTERN N-S DITCH a		0	0	20	0	0	0	0	0	0		
57	201 OD/57/3	Lii PIT VI QUAD a ORANGE/RED BURNED DAUB OR CLAY		120	0	0	0	0	0	0	0	0		
57	196 OD/57/III	Lii PIT I PINK ORANGE BURNT FUDGY DAUB		40	0	0	0	0	0	0	0	0		
57	194 OD/57/III	PIT I LAYER 1 DARK BROWN EARTH WITH MANY RED'D PEB	BLES	120	0	0	0	0	0	0	0	0		
57	284 OD/57/i	MOLE RUN? IN LII YELLOW-BROWN FUDGE		100	0	0	0	0	0	0	0	0		
57	185 OD/I/57/X	Lia/ib QUAD a LGE CENTRAL PIT OR CELLAR DARK HUMU	S	140	0	0	0	0	0	0	0	0		
57	208 OD/I/57/X	GRAVE I QUAD b		0	0	0	0	25	0	0	300	0		ORE BURNT FERUG SS

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
57	183 ODI/I/57X	N-S BEAM SLOT BETWEEN BEAMS I & II		50	0	0	0	0	0	0	0	0		
57	198 ODI/57/X	PIT II Liii QUAD a BOT LAYER		110	0	0	0	0	0	0	0	0		
57	190 ODI/57/X	Liiib PIT AT 21 ON PLAN		525	0	0	0	0	0	0	0	0		
57	199 ODI/57/X	Lii PITii QUAD a		40	0	0	0	0	0	0	0	0		
57	184 ODI/57/X	W END SLEEPER BEAM SLOT b JNCT WITH UNDERLYING PIT	90	0	0	0	0	0	0	0	0	0		
57	191 ODI/57/X/N	X:: N-S SHALLOW GULLY IN XNX		15	0	0	0	0	0	0	0	0		
57	193 ODI/57/X/N	X Lc GENERAL		0	0	0	0	0	0	50	0	0		
57	192 ODI/57X	TERMINAL PH (?LATER) AT W RND OF SECTION OF BEAM I		50	0	0	0	0	0	0	0	0		
57	206 ODI/8X/57	E OF HOUSE III PIT AT S EDGE OF AREA SE SIDE		550	0	0	0	0	0	0	0	0		
54	236 PC	LIII OF PIT LIGHT SANDY LAYER		0	0	50	0	0	0	0	0	0		
54	224 PC	X		0	0	100	0	0	0	0	0	0		
54	226 PC BLK	BETWEEN AREA I & II LIII TOP		15	0	0	0	0	0	0	0	0		
54	225 PC BLK	BETWEEN AREAS I & II Lii		30	0	0	0	0	0	0	0	0		
55	217 PC TR2/55			625	0	0	0	0	0	0	0	0		
54	230 PCI	LII		15	0	0	0	0	0	0	0	0		
54	229 PCI	LII BLACK OCCU EARTH WITH GRAVEL		30	0	0	0	0	0	0	0	0		
54	231 PCI	LII		30	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
54	223 PCI	PH IN DITCH/FOUNDATION TRENCH APP 3' W OF E SIDE	OF SC	0	0	350	0	0	0	0	0	0		
54	216 PCI	TOP OF DITCH		0	0	0	0	125	0	0	0	0		
54	214 PCI	iii		15	0	0	0	0	0	0	0	0		
54	213 PCI	iii		90	0	0	0	0	0	0	0	0		
54	211 PCI	Lii		170	0	0	0	0	0	0	0	0		
54	234 PCI	LIII E		0	0	0	0	15	0	0	0	0		
54	232 PCI	LIII (E)		30	0	0	0	0	0	0	0	0		
54	254 PCI	Liii PARTLY OVERLYING N SIDE OF EW DITCH		50	0	0	0	0	0	0	0	0		
54	237 PCI	LI OF PIT		0	420	0	0	0	0	0	0	0		ANALYSE
54	235 PCI (PIT)	LII DARK SANDY LAYER		105	0	0	0	0	0	0	0	0		
54	233 PCI E SIDE	LIII		0	250	0	0	0	0	0	0	0		ANALYSE?
54	212 PCI NE	TOP OF Liii		70	0	0	0	0	0	0	0	0		
54	228 PCI/II BLK	Liiia (OVERLYING DITCH FILLING)		700	0	0	0	0	0	0	0	0		
54	227 PCI/IIIIBLK	BASE Lii/TOP OF Liiia		125	0	0	0	0	0	0	0	0		
54	238 PCII	iii (N)		30	0	0	0	0	0	0	0	0		
54	242 PCII N	LIII		70	0	0	0	0	0	0	0	0		
54	239 PCII N	LII		200	0	0	0	0	0	0	0	0		
54	244 PCII S	PH WITH BUILT CHALK SURROUND		15	0	0	0	0	0	0	0	0		
54	222 PCIII	SEWER TRENCH		30	0	0	0	0	0	0	0	0		
54	253 PCIII	LIIIa/b		100	0	0	0	0	0	0	0	0		
54	247 PCIII	LIII UPPER		90	0	0	0	0	0	30	0	0		
54	246 PCIII	LIII UPPER		0	0	0	0	100	0	0	0	0		
54	245 PCIII	LIII EXTN ON W SIDE (BACK)		80	0	0	0	0	0	0	0	0		
54	249 PCIII	LIII (W)		120	0	0	0	0	0	0	0	0		

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
54	248	PCIII	LIII	45	0	0	0	0	0	0	0	0		
54	251	PCIII	iii	30	0	0	0	0	0	0	0	0		
54	252	PCIII	Liiia	0	0	0	0	15	0	0	0	0		
54	255	PCIII		0	1150	0	750	0	0	0	0	0		SMELT- HB?? VICEVERSA
54	250	PCIII		850	0	0	0	0	0	0	0	0		2 LMPS, SME?
54	243	PCIIN	LIII	10	0	0	0	0	0	0	0	0		
54	240	PCIIN	LII	15	0	0	0	0	0	0	0	0		
54	241	PCIIN	LIII W END	120	0	0	0	0	0	0	0	0		
57	256	PMF15	PIT AT N END OF TRENCH Lii & Liv	PIT	0	0	0	0	0	0	210	0	0	I LMP ODD
57	257	PMF15	pit side or ditch end MIDWAY ALONG W SIDE OF TRENC	H Li/iiject	120	0	0	0	0	0	0	0	0	
57	261	PMF21	PIT IN MIDDLE OF S SIDE BOTTOM LAYER	PIT	700	0	0	0	0	0	0	0	0	
57	258	PMF8	SE/SW GULLLY ALSO CROSSES INTO PMF9		200	0	0	0	0	0	0	0	0	
54	174	SIII 2			60	0	0	0	0	0	0	0	0	
54	165	SQ AI	LVI OF PIT IN NE CORNER		65	0	0	0	0	0	0	0	0	
54	168	SQ I	L Iia		0	0	1075	0	0	0	0	0	0	
54	298	SQ4	Lii OF DITCH 'SPLIT PEA' SILTING WITH SANDY BROWN	EARTH	40	0	0	0	0	0	0	0	0	
54	169	SQII	LII		0	0	100	0	0	0	0	0	0	
54	175	SQIII S1/2	GULLY RUNNING SE/NW BLACK FILL RUNNING INTO PITIII		20	0	0	0	0	0	0	0	0	
54	299	SQIV	LIII THICK ???? LAYER RUNNING INTO DITCH TOP LAYER	IN SE CORN	10	0	0	0	0	0	0	0	0	
55	307	SQV	Lc		40	0	0	0	0	0	0	0	0	
54	308	SQV	LIII		70	0	0	0	0	0	0	0	0	

OLD WINDSOR SLAG LISTING (weight in grammes)

OW CONTEXT	TRENCH	LAYER	TYPE	SMITH	HB	TAP	SMELT	CIN	FAS	HL	ORE	OTHER	OTYPE	COMMENT
55	309 SQV(54)	PIT LI		60	0	0	0	0	0	0	0	0		
55	310 SQV/54	HUT CELLAR Lia/ii		0	0	0	0	0	0	10	0	0		
55	220 TR AGIN E	FENCE OF PRIORY COTTAGE EARLY SAX OCCUP AT N END	OF TR	0	420	0	0	0	0	0	0	0		SMELT???
53	262 TRA	LIII + LOOMWT		40	0	0	0	180	0	0	0	0		
53	264 TRB	LV 3'10'' - 4'2'' N END OF TRENCH		60	0	0	0	0	0	10	0	0		
53	265 TRB	LVI 3'10'' - 4'2'' S END OG TRENCH		240	0	0	0	0	0	0	0	0		
53	266 TRB	LIV + ROMAN BRICK		50	0	0	0	0	0	0	0	0		CONT INCLS ROM BRICK
** Total **				49300	12290	14415	10715	1250	0	4200	315	80		