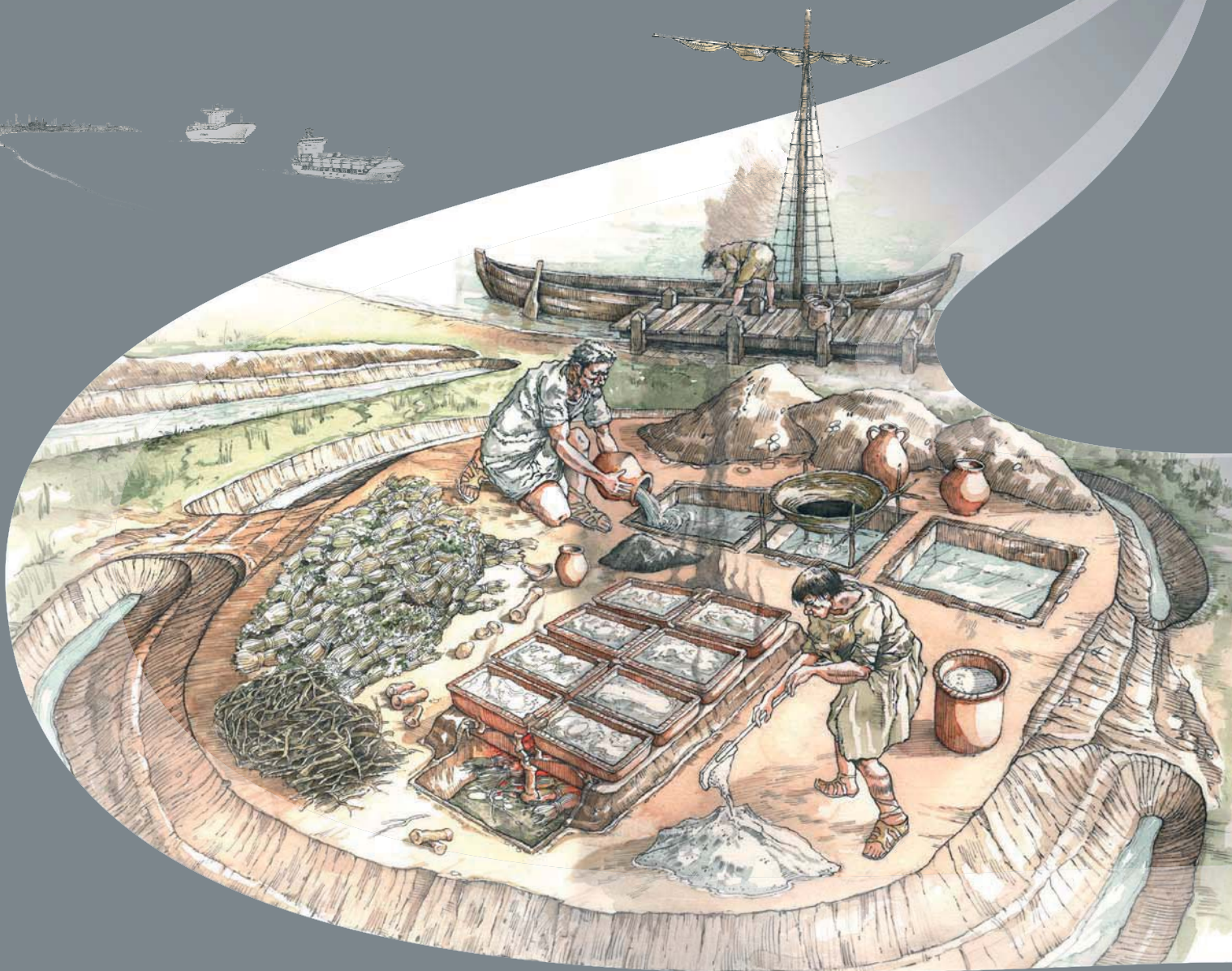


# LONDON GATEWAY

## IRON AGE AND ROMAN SALT MAKING IN THE THAMES ESTUARY

EXCAVATION AT STANFORD WHARF  
NATURE RESERVE, ESSEX



REPORT 26

RADIOCARBON AND OSL DATING:  
LIST OF DATES

## Radiocarbon and OSL dating: List of Dates

### RADIOCARBON DATING

Area	Feature/ layer	Sample no.	Context no.	Material	Lab code	$\delta^{13}\text{C}$ (‰)	C14 Age BP	Calibrated date (2 $\sigma$ , OxCal v.4.17)	Calibrated date (2 $\sigma$ , OxCal v.3.10)
A	U-shaped structure 'Boathouse'	9001	1119	Oak sapwood	SUERC-24584 (GU-19377)	-26.0	1885±40	AD20-40 (1.4%) AD50-240 (94.6%)	AD20-40 (1.4%) AD50-240 (94.0%)
A	U-shaped structure 'Boathouse'	9065	1424	Oak sapwood	SUERC 24881 (GU-19628)	-25.3	1945±30	30BC-AD130 (94.5%)	20BC-AD130 (95.4%)
A	Sheepfold	9002	1326	Oak sapwood	SUERC-24585 (GU-19378)	-28.3	185±40	AD1640-1710 (21.4%) AD1720-1820 (48%) AD1830-1890 (8.2%) AD1910-1960 (17.8%)	AD1640-1690 (69.3%) AD1830-1890 (8.3%) AD1910-1960 (17.8%)
D	Wattle structure	9005	2027	Oak sapwood	SUERC-24586 (GU-19379)	-24.5	1860±40	AD60-250 (95.4%)	AD60-250 (95.4%)
A	Deposit, sequence 1	1052	1077	Twigs (indeterminate)	OxA-22430	-24.9	2853±27	1120-920BC (95.4%)	1130-970BC(89.0%) 960-930BC (6.4%)
A	Surface	1255	5800	Charred seeds	OxA-22431	-22.5	2120±27	350-320BC (2.7%) 210-50BC (92.7%)	350-320BC (2.6%) 210-50BC (92.8%)
A	Sand (G3), sequence 1	1073	1145	Charcoal	OxA-22432	-24.8	4619±32	3520-3340BC (95.4%)	3520-3340 (95.4%)
A	Peat under alluvium, sequence 5	1268	5845	Waterlogged seeds	OxA-22575	-26.3	2601±34	840-750BC (89.1%) 690-660BC (4.9%) 620-590BC (1.3%)	840-750BC (89.0%) 690-660BC (5.0%) 620-590BC (1.4%)
B North	Elm pile from footbridge 9517	6007	4608	Elm	OxA-24851	-24.99	569±24	AD1305-1365 (56.2%) AD1385-1420 (39.2%)	AD1300-1370 (56.2%) AD1380-1420 (39.3%)
D	Oak pile tip from revetment with wide axe marks, which is characteristic of Saxon period	9006	2059	Oak sapwood	OxA-24582	-24.49	1287±25	AD 660-780 (94.5%)	AD 660-780 (94.5%)

## Excavation at Stanford Wharf Nature Reserve: Radiocarbon and OSL dating: List of dates

A	Fill of roundhouse ditch (cut 5316)	1183	5328	Spelt grain	OxA-24853	-22.74	2058±26	170BC-AD10 (95.4%)	170BC- AD10 (95.4%)
BH3	Depth 3.68m			humic	OxA-24849	-26.21	4771±31	3650-3510BC (92.4%) 3410-3380BC (3.0%)	3640-3380BC (94.5%)
BH3	Depth 3.68m			humic	OxA-24897	-25.91	6041±39	5050-4830BC (94.5%)	5050-4830BC (94.5%)
BH3	Depth 1.55m			humic	OxA-24850	-25.8	4628±30	3520-335BC (95.5%)	3520-3350BC (94.5%)
BH3	Depth 1.55m			humic	OxA-24898	-25.95	5545±47	4490-4320B (94.5%)C	4490-4320BC (94.5%)
A	Peat under alluvium (G39a), sequence 8	1125	1915	Mixed seeds	OxA-24899	-26.67	2755±30	980-820BC (95.4%)	980-820BC (95.4%)

Excavation at Stanford Wharf Nature Reserve: Radiocarbon and OSL dating: List of dates

### OPTICALLY STIMULATED LUMINESCENCE (OSL)

Area	Description	Sample no.	Context	Lab ref.	Age (1000 years - ka)	Date range
A	Alluvium (G5)	1385	5980	GL09085	2.2 ± 0.2	450-50BC
A	Alluvium (G22)	1386	5982	GL09086	2.9 ± 0.3	1250-650BC
A	Alluvial clay beneath the roundhouse	1387	6001	GL09087	2.5 ± 0.2	750-350BC
A	Palaeosol G4 above sand (G3)	1388	6196	GL09088	3.6 ± 0.2	1850-1450BC
A	Sand (G3)	1389	6195	GL09089	9.8 ± 1.7	9550-6150BC
A	The earliest red hill deposit on the western red hill	1355	6350	GL09090	2.0 ± 0.2	250BC-AD150
	Palaeochannel		OA5	GL09091	329 ± 36	Pleistocene

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