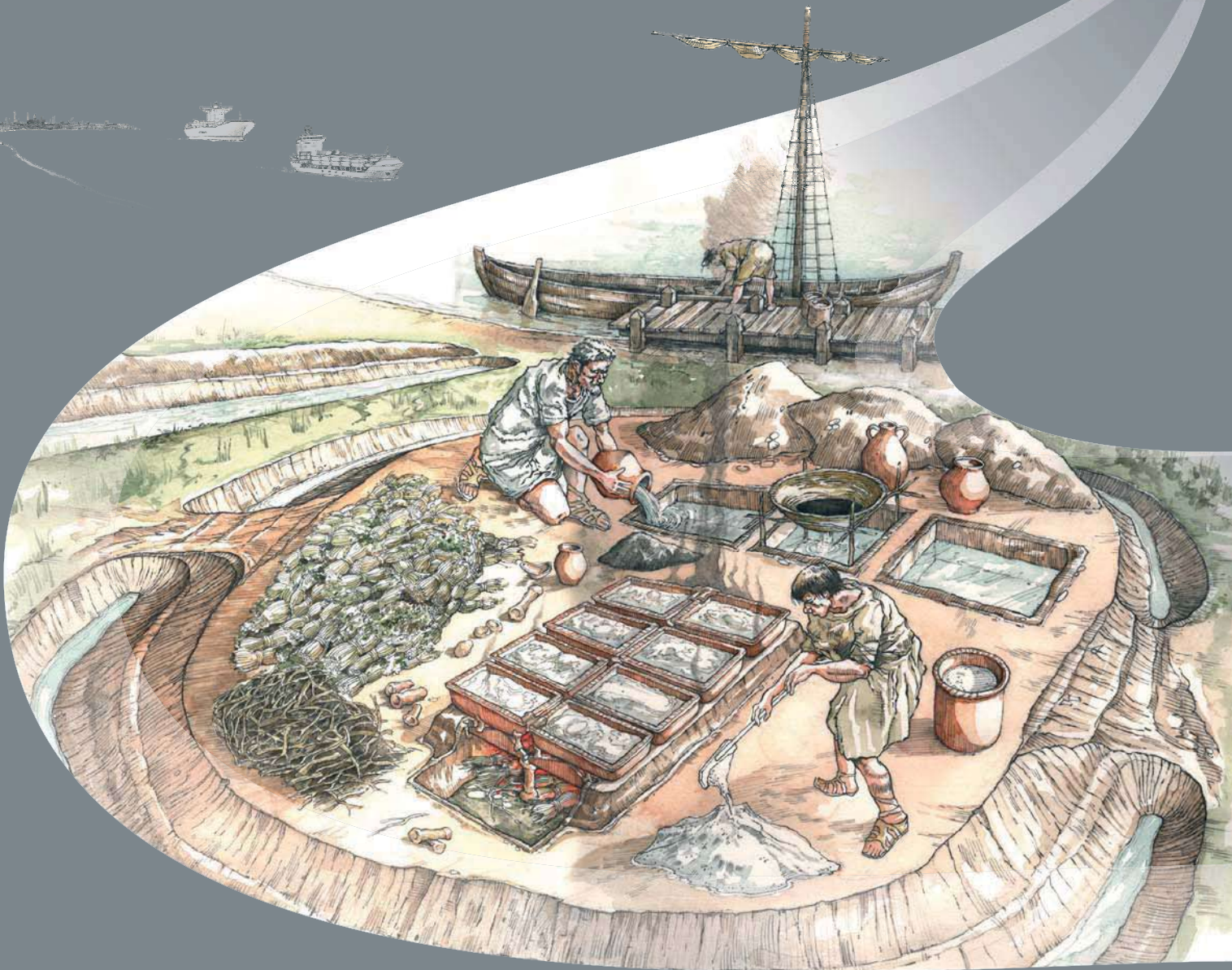


# LONDON GATEWAY

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

EXCAVATION AT STANFORD WHARF  
NATURE RESERVE, ESSEX



SPECIALIST 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%)<br>AD50-240 (94.6%)  | AD20-40 (1.4%)<br>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%)<br>AD1720-1820 (48%)<br>AD1830-1890 (8.2%)<br>AD1910-1960 (17.8%) | AD1640-1690 (69.3%)<br>AD1830-1890 (8.3%)<br>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%)<br>960-930BC (6.4%)                            |
| A       | Surface  | 1255       | 5800        | Charred seeds         | OxA-22431              | -22.5                     | 2120±27    | 350-320BC (2.7%)<br>210-50BC (92.7%)  | 350-320BC (2.6%)<br>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%)<br>690-660BC (4.9%)<br>620-590BC (1.3%)                             | 840-750BC (89.0%)<br>690-660BC (5.0%)<br>620-590BC (1.4%)        |
| B North | Elm pile from footbridge 9517  | 6007       | 4608        | Elm                   | OxA-24851              | -24.99                    | 569±24     | AD1305-1365 (56.2%)<br>AD1385-1420 (39.2%)  | AD1300-1370 (56.2%)<br>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%)<br>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 LUMINESENCE (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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