Background pattern

Description automatically generated

Fig S1 Low Hall and The Bottoms from an RAF aerial photograph taken 26th March 1946 (Reproduced by kind permission of Historic England Archive: Permission 8881 / 134651). The ‘drain’ is visible as a ditch running through the centre of The Bottoms.

**Instrument specification for the pXRF device.**

This instrument is equipped with a Rhodium target X-Ray tube with a maximum voltage of 30μA at 40kV (15μA at 15kV) and Silicon Drift Detector (SDD). It contains a high-resolution, Peltier cooled, Silicon PIN (Si-PIN) diode detector. The instrument is factory-calibrated, and it was used with the following settings suggested by the factory for the analysis of copper alloys: 40kV voltage beam, 10μA current range, filter 1(Al-300um/Ti-25um). Initially the calibration file “Cu1.CFZ” provided by the factory was used.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **County** | **Ref** | **Lat** | **Long** | **Date** | **Landuse** |
| Amersham | Buckinghamshire | Farley et al. 1988 | 51.6769 | -0.60767 | None | Dryland in valley close to villa |
| Burwell | Cambridgeshire | Gregory 1976 | 52.27577 | 0.328257 | None | Fen edge |
| Sturmere | Essex | Kennett 1971 | 52.06873 | 0.47593 | None | Dryland |
| Halkyn | Flintshire | Kennett 1971 | 53.23121 | -3.18691 | None | Dryland |
| Drapers' Hanging | London | Gerrard 2009 | 51.50735 | -0.12776 | 375+ | Well |
| Irchester | Northamptonshire | Kennett 1971 | 52.28212 | -0.64405 | None | Dryland in cemetery |
| Knaresborough | Yorkshire | Kennet 1971 | 54.03875 | -1.46505 | None | Bog |
| Wotton | Surrey | Kennett 1971 | 51.20467 | -0.38615 | None | Dryland but close to river |
| Bishop's Canning | Wiltshire | Robinson and Swanson 1993 | 51.37662 | -1.94798 | 402+ | Dryland |
| Helmsdale | Sutherland | PSAS | 58.1176 | -3.65089 |  | Dryland by coast |
| Pewsey | Wiltshire | Henry et al. 2019 | 51.35794 | -1.74554 | None | Dryland |
| Wilcot | Wiltshire | Henry et al. 2019 | 51.35825 | -1.79889 | None | Dryland |
| Sandy | Bedfordshire | Kennett 1971 | 52.12981 | -0.28993 | None | Dryland |
| Finningley | Yorkshire | Bruce Mitford and Raven 2005, No. 109 | 53.48653 | -0.99044 | None | Uncertain |
| Stanwick | Northamptonshire | HER 1737/0/1 | 52.33389 | -0.57492 | None | Dryland |
| Weeting | Norfolk | Gregory 1977 | 52.46445 | 0.61529 | None | Fen edge |
| Newham Bog | Norhumberland | Mitford and Raven 2005, No. 71 | 55.54916 | -1.72531 | None | Bog |
| Linton | N Yorks | PAS: SWYOR-E4D7D0 | 54.0566 | -2.00916 | None | Dryland |

**Demonstrably late Roman (fourth- to fifth-century) hoards with copper-alloy vessels from Britain**

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**Concordance between existing objects and Raine’s (YPS 1891, 143-144) account**

Canon Raine described the objects from the hoard on display in the Yorkshire Museum in 1891. This is an attempt to provide a concordance between his numbering and the objects as they are catalogued today. Raine’s descriptions are too vague to discriminate between the various strainer fragments, but as the Table demonstrates, the total number of objects match. Interestingly, Raine lists the iron spur. This does not currently exist and it is possible that it should be associated with H144.14. The identifications here are desk-based. There is, as far as we know, no documentary concordance surviving in the Yorkshire Museum

|  |  |  |
| --- | --- | --- |
| **YPS 1891** | **Accession Number (H144)** | **YPS description** |
| 1 | 31 | Urn |
| 2 | 1 | Capacious dish |
| 3 | 8 | Thin bowl |
| 4 | 9 | Thin bowl |
| 5 | 10 | Thin bowl |
| 6 | 11 | Thin bowl |
| 7 | 12 | Thin bowl |
| 8 | 13 | Thin bowl |
| 9 | 20 | Bowl with ‘jimped’ edge |
| 10 | 18 | Small plate |
| 11 | 2 | Colander fragment |
| 12 | 6 | Colander fragment |
| 13 | 4 | Colander fragment |
| 14 | 7 | Colander fragment |
| 15 | 3 | Colander fragment |
| 16 | 17 | Large plate |
| 17 | 5 | Strainer |
| 18 | 19 | Scale pan |
| 19 | 26 | Ring |
| 20 | 27 | Ring |
| 21 | 28 | Ring |
| 22 | 29 | Ring |
| 23 | 30 | Ring |
| 24 | 14? | Spur? |
| 25 | 25 | Axe-head |
| 26 | 23 | Axe-head |
| 27 | 24 | Hammerhead |

YPS 1891. *A handbook to the antiquities in the grounds and museum of the Yorkshire Philosophical Society*, John Samson, York