

4. RADIOCARBON DATE

Table 1 shows the radiocarbon determination from a left temporal bone recovered from the cist. When calibrated at two standard deviations (95.4% confidence), it returns a date range of 2330–2040 cal BC. This is consistent with radiocarbon dates associated with other Tall Short-Necked vessels from north-east Scotland (see 7.1 ‘Report on the Beaker’ below).

Table 1 Radiocarbon date from the Knappach Toll burial, calibrated using OxCal 4.3.2 (Bronk Ramsey 2017); IntCal13 atmospheric curve (Reimer et al 2013)

Site	Sample	Material	Area/ Context	Description	Depositional context	Uncal	$\delta^{13}\text{C}$	1 σ (68.2%)	2 σ (95.4%)
Knappach Toll, Balbridie	SUERC- 30852	Human L temporal bone	9	Burial	Primary	3775 \pm 35 BP	-9.7‰	2280–2140 cal BC	2330–2040 cal BC