

Borehole	Depth (m)	Sample Material	Lab Code	Radiocarbon Date (BP)	$\delta^{13}\text{C}$ (‰)	Calibrated date (95.4%, 2 $\sigma$ range)
BH 2	4.70	<i>Phragmites</i> stem.	SUERC-38608	4020 $\pm$ 35	-27.0	3100-2910 cal BC [5050-4860 cal BP]
BH 2	9.59	Fine roots	SUERC-38609	15825 $\pm$ 40	-29.3	17400-16800 cal BC (19350-18750 cal BP)
BH 5	4.20	Fine roots	SUERC-38610	4390 $\pm$ 30	-24.5	2630-2460 cal BC (4580-4410 cal BP)

Radiocarbon dates are all recalibrated against the IntCal09 Northern Hemisphere radiocarbon curve (Reimer *et al.* 2009) using the program OxCal 4.1 (Bronk Ramsey 1995; 2001). All calibrated dates are quoted as calibrated years AD/ BC. Date ranges are quoted using the 2 $\sigma$  calibrated range (95.4%) with the end point rounded outwards to 10 years, though calibrated dates older than 15000 BP are rounded to the nearest 50 years following the data spacing of the IntCal09 dataset (Reimer *et al.* 2009).

[Given the material dated for the younger dates – roots!!! – I'd be very sceptical of the whole lot as these are also bound to be intrusive]

## References

Bronk Ramsey, C. 1995: Radiocarbon Calibration and Analysis of Stratigraphy: The OxCal Program. *Radiocarbon* 37, 425-430.

Bronk Ramsey, C. 2001: Development of the radiocarbon calibration program OxCal, *Radiocarbon* 43, 355-363.

Reimer, P. J., Baillie, M. G. L., Bard, E., Bayliss, A., Beck, J. W., Blackwell, P. G., Bronk Ramsey, C., Buck, C. E., Burr, G. S., Edwards, R. L., Friedrich, M., Grootes, P. M., Guilderson, T. P., Hajdas, I., Heaton, T. J., Hogg, A. G., Hughen, K. A., Kaiser, K. F., Kromer, B., McCormac, F. G., Manning, S. W., Reimer, R. W., Richards, D. A., Southon, J. R., Talamo, S., Turney, C. S. M., van der Plicht, J. and Weyhenmeyer, C. E., 2009: IntCal09 and Marine09 radiocarbon age calibration curves, 0-50,000 years cal BP. *Radiocarbon* 51, 1111-1150.