

Summary of Linkage Infrastructure, Equipment and Facilities Proposals by State and Organisation

New South Wales

Australian Institute of Nuclear Science and Engineering

LE100100141 Dr Dennis Mather, Dr John Tibby, Dr Simon G Haberle, Dr Michael K Gagan, Prof Patrick De Deckker, Prof Peter A Gell, Dr Mark T Warne, Dr Paul Hesse, Dr Kirstie A Fryirs, A/Prof Ian D Goodwin, A/Prof Jonathan D Woodhead, Dr Patrick J Baker, Dr Russell N Drysdale, Dr Scott D Mooney, A/Prof Massimo Gasparon, A/Prof Jian-xin Zhao, Prof John M Pandolfi, Dr Dan A Penny, Prof David M Bowman, Prof Charles G Skilbeck, Dr Grzegorz D Skrzypek, Prof Allan R Chivas, Dr Helen V McGregor, Dr Katherine Szabo, Prof Martin C Thoms, Prof John R Dodson

Approved Project Title High-resolution ITRAX XRF core scanning facility for global change research

2010 \$420,000.00

Primary FoR 0406 PHYSICAL GEOGRAPHY AND ENVIRONMENTAL GEOSCIENCE

Partner/Collaborating Organisation(s)

Australian Nuclear Science and Technology Organisation
Deakin University, Macquarie University, Monash University, The Australian National University, The University of Adelaide, The University of Melbourne, The University of Newcastle, The University of New England, The University of New South Wales, The University of Queensland, The University of Sydney, The University of Western Australia, University of Ballarat, University of Tasmania, University of Technology, Sydney, University of Wollongong

Administering Organisation Australian Institute of Nuclear Science and Engineering

Project Summary

This facility will enable researchers to obtain high-resolution geochemical profiles in the study of environmental change and climate variability. It will provide archive data on the variation of density and chemical element composition along sediment and soil cores, rock cores, wood samples, speleothems and corals. These archives contain important information such as human activity, climate variability, water quality changes, pollution histories, recent geomorphological change, land-use change, introduction of invasive species and the occurrence of bushfires. A better understanding of the occurrence and timing of these major environmental issues is of national and regional importance.