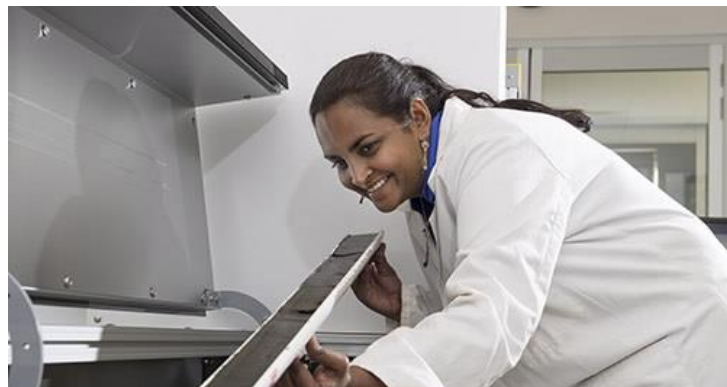


High res image, radiograph and XRF scan of sediment cores, wood and other materials

The X-Radiograph and XRF scans (sediment cores, wood and other materials) capability enables researchers to obtain high-resolution geochemical profiles in the study of environmental change, climate variability and anthropogenic induced changes. It provides data on the variation of density, chemical element composition and magnetic susceptibility profiles in sediment and soil cores, rock cores, wood samples, speleothems, corals and other types of samples.

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.



Capability selections

- ITRAX Core Scan at 1000 micron resolution (low) with 10sec exposure for XRF analysis
- ITRAX Core Scan at 500 micron resolution (medium) with 10sec exposure for XRF analysis
- ITRAX Core Scan at 200 micron resolution (high) with 10sec exposure for XRF analysis
- ITRAX Core Scan at 200 micron resolution (high) and X-radiograph from 20 micron for wood samples

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