

Cameco Australia Pty Ltd
East Alligator EL23522 - Exploration Summary

	Category	Activity	Contractor	Coverage	Objectives	Results
2002	Airborne Geophysics	Airborne Radiometrics and Magnetics	UTS Geophysics	2417 line km, at 200m line spacing at 60m flight height	Identify any areas of anomalous radioactivity that may be attributed to U mineralisation and to provide another tool for the identification of stratigraphic patterns.	Anomalous radioactivity appears to be controlled by stratigraphy, namely the outcrop pattern of the Gilruth Volcanics. The magnetics show several linear trends related to dykes along structural trends.
		Hymap Mk 1	De Beers	868 sq km	To obtain continuous clay alteration patterns over the entire area, to discriminate lithologies and possibly alteration haloes indicative of U mineralisation	7 areas identified within accessible land, based on interpreted clay overprinting +/- structural deformation
2003	Lithogeochemistry and Multi-spectral Work	Airborne radiometric anomaly follow-up	Cameco	17 samples evaluating 15 identified radiometric anomalies	Ground check and validate the response from the airborne radiometric survey.	Dominantly ferruginous rubble and scree derived from the mafic volcanic units in the Katherine River Group; minority of anomalies due to pisoliths and ferricrete; three
		Regional Background Sampling	Cameco	104 samples collected as part of regional coverage on a 2km by 2km grid	Obtain regional background geochemical, lithological, petrological and physical characteristics of the exposed rock units and define limits for anomalous alteration and chemistry; may define anomalous areas that may be associated with unconformity-style U mineralisation	
		PIMA - outcrop samples	Cameco	121 readings on samples	To define areas of clay alteration which may be attributable to U mineralisation.	results generally correlated to clay determinations from the Hymap multispectral interpretation
2004	Lithogeochemistry and Multi-spectral Work	Outcrop Sampling	Cameco	84 samples	To provide higher density coverage across an area of g	anomalous samples along Bullman Fault trend
2005	Airborne Geophysics	TEMPEST airborne electromagnetics	Fugro	245 line km, 200m line spacing; a small area within the central portion of the licence area	To determine the depth to the Nungbalgarri Volcanics and better constrain an interpreted depth to the unconformity, and determine the prospectivity of the Bullman Fault Zone by EM methods	The depth to upper conductive horizon interpreted as the Nungbalgarri Volcanics is in excess of 200m, indicating depth to unconformity in excess of 400m. No significant conductive responses or structural offsets apparent within survey area.
	Lithogeochemistry and Multi-spectral Work	Outcrop Sampling	Cameco	3 samples	Reconnaissance of the area targeted for drilling, and evaluate the weak surficial anomalism identified from previous work.	Anomalism related to scavenging from Gilruth Volcanic Member, no evidence of structural disruption in the area; no further work recommended