

Cameco Australia Pty Ltd
Manyallaluk EL 9452 - Exploration Summary

	Category	Activity	Contractor	Coverage	Objectives	Results
2000	Geophysics	Airborne Radiometrics and Magnetics	UTS Geophysics	1961 line km. Coverage of the western portion of the tenement as part of a larger survey conducted by the NTGS	Identify any areas of anomalous radioactivity that may be attributed to U mineralisation and to provide another tool for the identification of stratigraphic patterns.	
2003	Geophysics	Airborne Radiometrics and Magnetics	UTS Geophysics	3480 line km. Coverage of the eastern portion of the tenement.	Identify any areas of anomalous radioactivity that may be attributed to U mineralisation and to provide another tool for the identification of stratigraphic patterns.	
2004	Geophysics	Airborne Radiometrics and Magnetics	Pitt Research	regional coverage	Merge the two radiometric datasets to facilitate mapping and visualisation of the radiometric patterns	132 radiometric anomalies identified requiring ground follow-up
		Hymap Mk 1	De Beers	870 sq km	To obtain continuous clay alteration patterns over the entire area, to discriminate lithologies and possibly alteration haloes indicative of U mineralisation	17 areas identified based on interpreted clay overprinting +/- structural deformation
	Lithogeochemistry and Multi-spectral Work	Airborne radiometric anomaly follow-up	NTEL	79 stations with 74 samples evaluating 42 ARAD 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 anomalies within Grace Creek Granite and two within Hindrance Creek Sandstone requiring further evaluation
		Regional Background Sampling	NTEL	12 samples	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	Program was not completed or initiated completely due to change of focus to evaluate ARAD anomalies
		PIMA - outcrop samples	Cameco	86 readings on samples	To define areas of clay alteration which may be attributable to U mineralisation.	
	Research	Petrographic Descriptions	Pontifex and Associates	20 petrographic sample descriptions		
2005	Lithogeochemistry and Multi-spectral Work	Airborne radiometric anomaly follow-up	NTEL	89 Samples from 110 stations	Ground check and validate the response from the airborne radiometric survey.	No additional anomalies requiring further work from those determined during 2004 field program
		Other sampling	NTEL	136 samples from 140 stations	Samples following up historic Minloc located prospects, hyperspectral clay anomalies, structural target areas and regional background sampling	
		ASD reflectance analysis	Cameco	225 readings on samples	To define areas of clay alteration which may be attributable to U mineralisation.	
2006	2 Diamond Holes MLD001 and ML002	Diamond Drilling	Titeline	2 holes totalling 815.7 m	Test structural targets with weak geochemistry anomalies	No significant mineralisation: intersections of Hindrance Creek Sandstone challenging existing NTGS mapping.
2007	Geophysics	Airborne electromagnetics	Fugro Airborne Surveys Pty. Ltd.	1763 line-kms	Provide 3-D EM data to assist with the identification of basement graphite, structural offsets, alteration, and to infer the depth to the unconformity below sandstone.	Failed to identify any discrete conductors that can be identified with a signature thought to be due to basement graphite or alteration.