

**Cameco Australia Pty. Ltd.****Beatrice Project EL 24291 - Airborne radiometric anomaly follow-up summary****Beatrice Project EL 26796**

Anomaly Number	Prospect	Sample Number	E_GDA94	N_GDA94	RL_m	Year	Indicated Formation	Initial Geophysical Description
BT09_A_01		C010036	302849	8605911	116	2009	Pxn>m	Strong isolated U anomaly 2 km NW of the Beatrice prospect situated on NE trending Dol and mapped - Pxn>m
		C010037	302850	8605912	116	2009		
		C010038	302775	8606052	163	2009		
		C010039	302800	8606013	145	2009		
		C010040	302894	8605980	132	2009		
BT09_A_04		C010041	303602	8606855	89	2009	Pxn>m	Weak U anomaly 2.7 km NNW of Beatrice possibly proximal to inferred (magnetics) NS structure with - Pxn>m. VTEM inversion suggests conductor 200m to the East and at ~200m depth
		C010042	303496	8606788	84	2009		
		C010043	303621	8606631	80	2009		
BT09_A_05		C010048	307827	8607987	46	2009		Moderate U anomaly possibly related to cover/drainage on NNW structure (mapped and inferred from magnetics - good termination)
BT09_A_06		C010044	299368	8603378	165	2009	Phe	Weak U anomaly over sandstone with proximal mapped NW shears and NE inferred fault from the magnetics
		C010045	299364	8603336	160	2009		
		C010046	299322	8603295	160	2009		
		C010047	299325	8603268	160	2009		
BT09_A_07	Violet	C010006	292607	8608038	114	2009	Pe and Pxm>2	Moderate U anomaly on Beatrice Fault / Dolerite in sandstone valley proximal to basement outcrop (-Pe and Pxm>2)
		C010007	292613	8608186	88	2009		
		C010008	292637	8608184	82	2009		
		C010009	292646	8608182	77	2009		
		C010010	292641	8608191	75	2009		
		C010241	291810	8608153	117	2009		
		C010242	291871	8608120	120	2009		
		C010243	292281	8608150	98	2009		
		C010244	291921	8608084	121	2009		
		C010245	291952	8608076	124	2009		
		C010246	291989	8608085	130	2009		
		C010247	292033	8608077	129	2009		
		C010248	292082	8608077	135	2009		
		C010249	292130	8608090	130	2009		
		C010251	292115	8608109	124	2009		
		C010252	292052	8608136	115	2009		
		C010253	292113	8608132	113	2009		
		C010254	292170	8608148	113	2009		
		C010255	292226	8608157	103	2009		
		C010256	292336	8608170	97	2009		
		C010257	292391	8608175	94	2009		
		C010258	292439	8608184	80	2009		
		C010259	292463	8608176	81	2009		
		C010261	292552	8608183	89	2009		
		C010262	292708	8608194	77	2009		
		C010263	292782	8608188	68	2009		

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BT09_A_08		C010034	312957	8597217	146	2009	Phe	Moderate UU/Th anomaly associated with a NW/SE trending U/Umean anomaly, Located within sandstone, possible exposure of regolith.
		C010035	313011	8597257	135	2009		
BT09_A_13		C010024	308399	8594955	63	2009	Phe	Weak U anomaly over sandstone and proximal to NW structure / dolerite
BT09_A_15		C010019	306428	8594295	72	2009	Pdo	Weak U anomaly in valley of weathered dolerite on NW fault from mapping and inferred from magnetics
		C010020	306441	8594360	90	2009		
		C010021	306446	8594346	79	2009		
BT09_A_16		C010022	306923	8594126	78	2009	Pdo	Weak U anomaly in valley of weathered Dolerite on NS structure (mapping and magnetics)
BT09_A_17		C010023	307197	8594051	52	2009	Pdo	Weak U anomaly in valley of weathered dolerite
BT09_A_18		C010026	320815	8595088	142	2009	Cz	U/Umean, UU/Th anomaly located in Cainozoic terrain
		C010027	320805	8595355	133	2009		
BT09_A_19		C010028	319800	8597062	58	2009	Pdo	U/Umean and weak U/Th anomaly in a Dolerite terrain
		C010029	319773	8597117	68	2009		
		C010030	319684	8597217	117	2009		
		C010031	320630	8596664	52	2009		
		C010032	320353	8596567	49	2009		
BT09_A_20	Beatrice South	C010018	293598	8591991	68	2009	Phe	Strong U anomaly located over sandstone possibly associated with Dolerite
BT09_A_21	Beatrice South	C010017	292777	8592486	58	2009	Phe	Strong U anomaly located over sandstone possibly associated with Dolerite
BT09_A_22	Beatrice South	C010012	291216	8592809	57	2009	Phe	Moderate U anomaly located over sandstone possibly associated with Dolerite
		C010013	291260	8592797	53	2009		
		C010014	291261	8592798	53	2009		
		C010015	291255	8592792	50	2009		
		C010016	292056	8592619	57	2009		

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Anomaly Number	Mapped Formation	Rock Type	Station Type	Gamma (max cps)	Lithology	Comments
BT09_A_01	Pxn	Granite	ASSAY	4800	Hematized granite? - float	Heterogeneous mass of partly porous sericite/illite-limonite of uncertain origin, but apparently quartz-free. Incorporates scattered subhedral goethite-zoned replicas after (oxidised pyrite).
	Pxn	Granite	ASSAY	4800	Coarse-grained granite? - float	Coarse-grained granite? - float
	Phe1	Sandstone	ASSAY	130	Coarse-grained sandstone	Coarse-grained sandstone
	Pxn	Granite	ASSAY	190	Coarse-grained granite	Coarse-grained granite - subcrop or float - not outcrop.
	Pxn	GRGN	ASSAY	1200	Altered granitoid gneiss	Massive limonite-stained clay-sericite with residuals of small elongate quartz grains. Interpreted as an altered fine to medium-grained granitoid gneiss. Local quartz-sericite vein.
BT09_A_04	Phe	Sandstone	ASSAY	140	Hematized sandstone - float	Coarse-grained hematized sandstone - float.
	Phe	Sandstone	ASSAY	80	Sandstone - float boulder	Sandstone - isolated float boulder
	Pxn	Granite	ASSAY	220	Extremely weathered granite	Extremely weathered granite - subcrop.
BT09_A_05			Mapping	250	No outcrop	ARAD_5 - no outcrop.
BT09_A_06	Phe2	Sandstone	ASSAY	80	Silicified sandstone	Silicified sandstone
	Phe	Sandstone	Mapping	170	Coarse-grained sandstone	Coarse-grained quartz-veined sandstone - structure?
	Phe	Pebbly Sandstone	Mapping	600	Granulstone	Pebbly layer in sandstone
	Phe	Pebbly Sandstone	ASSAY	450	Pebbly sandstone	Pebbly layer within sandstone
BT09_A_07	Phe	Sandstone	ASSAY	85	Coarse-grained sandstone	Coarse-grained sandstone
	Phe	Sandstone	ASSAY	7300	Coarse-grained sandstone	Coarse-grained sandstone
	Phe	Sandstone	ASSAY	60000	Silicified hematized sandstone	Silicified, hematized, fine-grained sandstone, U secondaries
	Phe	Sandstone	ASSAY	21000	Fine-grained hematized sandstone	Fine-grained hematized sandstone, U secondaries
		Sandstone	Mapping	58000	Gossanous float/scree	Gossanous float/scree
	Phe	Sandstone	ASSAY	80	Fine-grained sandstone	Fine-grained sandstone
	Phe	Sandstone	ASSAY	60	Fine-grained hematized sandstone	Fine-grained hematized sandstone
	Phe	Sandstone	ASSAY	70	Fine-grained silicified sandstone	Fine-grained silicified sandstone
	Phe	Sandstone	Mapping	130	Jointed sandstone	Jointed sandstone
	Phe	Sandstone	ASSAY	80	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	120	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	120	Hematized sandstone	Hematized sandstone
	Phe	Sandstone	ASSAY	120	Hematized sandstone	Coarse-grained and quartz-rich sandstone, with mostly sutured grain boundaries, and sparse interstitial sericite/limonite.
	Phe	Sandstone	Mapping	0	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	100	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	100	Silicified sandstone	Silicified sandstone
	Phe	Sandstone	ASSAY	65	Silicified sandstone	Silicified sandstone
	Phe	Sandstone	ASSAY	50	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	60	Silicified sandstone	Sandstone
	Phe	Sandstone	ASSAY	70	Sandstone - weakly brecciated	Sandstone - weakly brecciated
	Phe	Sandstone	ASSAY	65	Silicified sandstone	Silicified sandstone
	Phe	Sandstone	Mapping	90	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	30000	Brecciated sandstone - U 2ndary	Sandstone with disseminated fine to coarser quartz sand grains - with U 2ndary
	Phe	Sandstone	ASSAY	80	Sandstone	Sandstone
	Phe	Sandstone	ASSAY	80	Hematized sandstone	Hematized sandstone
	Phe	Sandstone	ASSAY	70	Sandstone	Sandstone

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Anomaly Number	Mapped Formation	Rock Type	Station Type	Gamma (max cps)	Lithology	Comments
BT09_A_08	Phe	Sandstone	ASSAY	85	Fine-grained sandstone	Fine-grained sandstone
	Phe	Sandstone	ASSAY	175	Weakly brecciated sandstone	Weakly brecciated and fractured sandstone
BT09_A_13	Phe	Sandstone	ASSAY	75	Sandstone	White sandstone
BT09_A_15	Phe	Sandstone	ASSAY	60	Hematized sandstone (float)	Hematized sandstone (float)
	Phe	Sandstone	ASSAY	60	Sandstone, drusy quartz	Sandstone. Lots of drusy quartz (large crystals)
	Pdo	Dolerite	ASSAY	4500	Weathered dolerite	Plagioclase-porphyrific dolerite with minor oxidation and alteration to sericite-limonite-leucoxene.
BT09_A_16	Phe	Sandstone	ASSAY	60	Coarse-grained sandstone	Coarse-grained sandstone
BT09_A_17	Phe	Sandstone	ASSAY	50	Medium-grained sandstone	Medium-grained sandstone
BT09_A_18	Phe	Sandstone	ASSAY	75	Hematized sandstone	Fine-medium grained hematized sandstone
	Phe	Sandstone	ASSAY	45	Sandstone	Sandstone
BT09_A_19	Pdo	Dolerite	ASSAY	130	Dolerite	Porphyritic dolerite
	Pxn	Granite	ASSAY	270	Granite	Moderately foliated granite
	Phe1	Sandstone	ASSAY	90	Coarse-grained sandstone	Coarse-grained sandstone, just above u/c.
	Phe	Sandstone	ASSAY	230	Sandstone rubble	Sandstone rubble on surface.
	Phe	Sandstone	ASSAY	40	Sandstone	Sandstone
BT09_A_20	Phe	Pebbly Sandstone	ASSAY	60	Pebbly sandstone	Pebbly sandstone
BT09_A_21	Cz	Cretaceous	Mapping	500	Black soil	Black soil, floodplain
BT09_A_22	Phe	Sandstone	ASSAY	100	Coarse-grained sandstone	Coarse-grained sandstone
	Phe	Sandstone	ASSAY	230	Coarse-grained sandstone	Coarse-grained white sandstone
	Phe	Sandstone	ASSAY	230	Coarse-grained sandstone	Coarse-grained sandstone
	Cz	Cretaceous	ASSAY	2000	Black soil	Black soil
	Phe	Sandstone	ASSAY	80	Hematized sandstone	Hematized sandstone

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Anomaly Number	Date Collected	Observations from Follow-up Investigations
BT09_A_08	20090524	Weak breccia within the sandstone, although minimal radiometric counts recorded (175 cps max).
	20090524	
BT09_A_13	20090522	Anomaly associated with wet area, (max 300 cps in vicinity) likely caused by Radon spring. SS sample taken from nearby outcrop.
BT09_A_15	20090522	No anomaly found, SS outcrop nearby sampled.
	20090522	
	20090522	
BT09_A_16	20090522	No anomaly found, SS outcrop nearby sampled.
BT09_A_17	20090522	Anomaly associated with outcrop of altered SS in gully (~2500cps) located close to escarpment. Two SS samples taken.
BT09_A_18	20090523	No anomaly found, SS outcrops nearby sampled.
	20090523	
BT09_A_19	20090523	Up to 270 counts in granite 1km away. Outcropping dolerite nearby as well. Did not find anything of significance. More work required?
	20090523	
	20090523	
	20090523	
	20090523	
BT09_A_20	20090522	Anomaly location not identified, one SS sample taken from nearby outcrop (background <100cps).
BT09_A_21	20090522	Overburden likely source, no sample taken (900cps max on Exploranium, background 100cps).
BT09_A_22	20090522	Possibly caused by overburden, 2 SS samples taken and one soil sample (background 150cps).
	20090522	
	20090522	
	20090522	
	20090522	