ASX Code
NUP

Capital Details

Shares on issue	236,050,855
Share Price	$0.072
Market cap	$17mil

Executive Chairman
Mick Muir

Non Executive Directors
Ian Kowalick
Robert Owen
John Jackson

Company Secretary
Anthony Schildkraut

Projects
Westmoreland: Eva/Cobar II and Lagoon Creek - Uranium/Gold
Lucy Creek/Arganara –Phosphate
Aileron - Uranium
Warrabri - Uranium

NuPower Resources Limited is a Northern Territory based exploration company. Our vision is to become a successful exploration and mining company with superior cashflows.

ASX and media release 18 February 2010

NuPower Confirms High Grade Uranium - Gold Discovery in the NT

High-grade exploration results highlight outstanding exploration potential of the Eva Project and regional tenements

NuPower Resources is pleased to announce that it has received the second batch of high-grade uranium-gold assay results from Eva Prospect in the Northern Territory, confirming the existence of significant mineralisation and highlighting the Project's outstanding exploration potential.

The latest results, which are the second and final batch of assays from the drilling program completed at Eva in the December quarter, contain exceptionally high uranium grades and significant gold intercepts.

These new assay results include:

EVO22 **- 16m at 13,800ppm U_3O_8 (30.42lb/t), 8.53g/t Au from surface and**
- 7m at 4,600ppm U_3O_8 (10.14lb/t), 3.77g/t Au from 19m to 26m

EVO34 **- 21m at 6,000ppm U_3O_8 (13.23lb/t), 5.32g/t Au from 6m to 27m**
Including 4m at 26,000ppm U_3O_8 (52.32lb/t), 19.41g/t Au from 12m to 16m

EVO 36 **- 12m at 5,900ppm U_3O_8 (13.01lb/t) , 13.39g/t Au from surface**
Including 2m at 22,200ppm U_3O_8 (48.94lb/t, 10.24g/t Au from 1m to 3m
- 30m at 2,500ppm U_3O_8 (5.51lb/t), 2.07g/t Au from 14m to 44m

NuPower Executive Chairman, Mick Muir said the latest results confirmed the Company's belief that Eva is an exciting deposit with exceptional grades over significant widths at shallow depths.

Mr Muir said Eva offered outstanding exploration upside. "The full strike extent of the structure associated with the old workings is still to be determined. The potential of the parallel structures were only partially tested by this exploration program, therefore the extent of the deposit remains open," he said.

Eva is within the Aboriginal lands of the Waanyi-Garawa Land Trust. Mr Muir stated the Company is very pleased with the relationship formed with the Traditional Owners and he expressed his thanks for their support and assistance in the exploration program. NuPower looks forward to continuing the good relationship with the Traditional Owners in the future.

The latest results stemmed from a 50-hole drilling program, the first assays from which were announced in an ASX statement on December 15, 2009. These results included 23m at 20m at 4,160 ppm U_3O_8, 5.07g/t Au from 9m, including 4m at 1.26% U_3O_8 and 18.32 g/t Au from 27m.

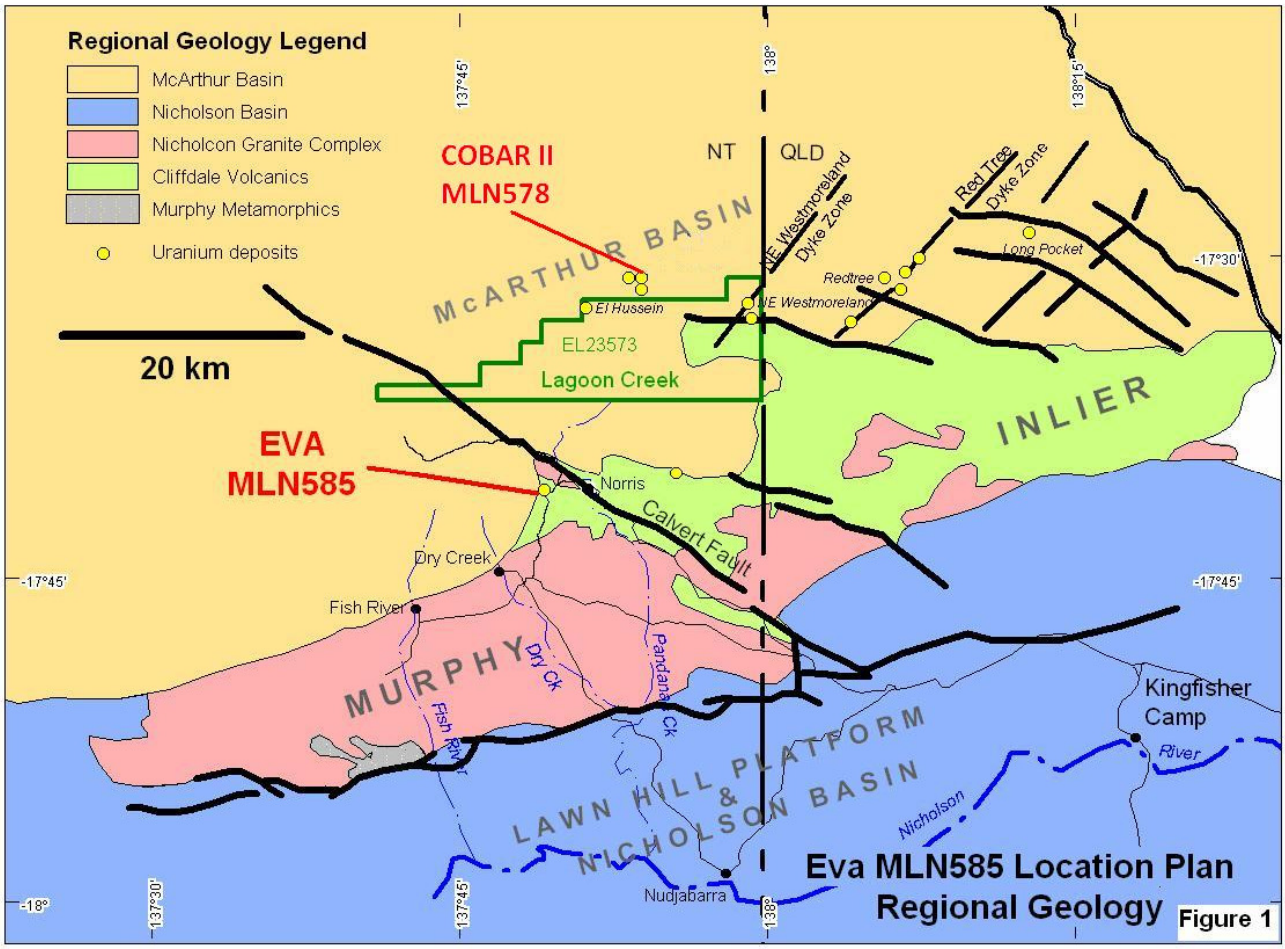
Mineralisation at Eva has now been outlined over a strike length of 100m and intersected to vertical depths of 65m.

These results have provided significant new regional geological knowledge that positively impacts the potential of the Company's Lagoon Creek and Cobar II tenements. The Company is currently evaluating priority exploration targets on these leases, for the coming field season.

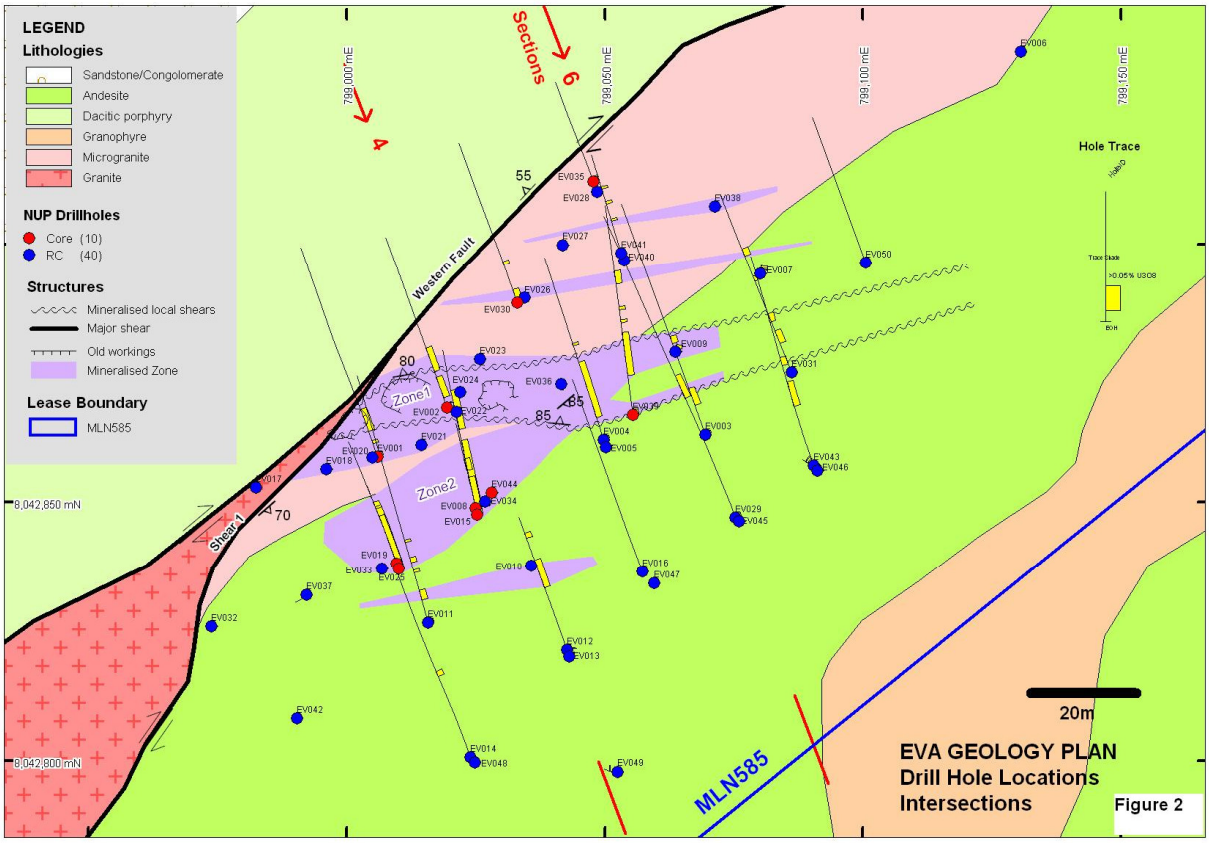
I G (Mick) Muir
Executive Chairman

Detailed Technical Commentary

NuPower's Eva project is located in the Westmoreland District, (Figure 1) on the northern margin of the Lower Proterozoic Murphy Inlier where it is hosted by the Cliffdale Volcanics that have been intruded by the Nicholson Granite Complex. The sequence is unconformably overlain immediately north of the prospect by basal rocks of the McArthur Basin represented here by the Westmoreland Conglomerate that is also host to uranium mineralisation elsewhere including NuPower's Lagoon Creek property.



At Eva, the Cliffdale volcanics consist of flow banded dacitic porphyry that equates with the ignimbritic lower member of the volcanics overlain by massive andesite that although is a significant lithology in the prospect area, is not recognized regionally (Figure 2). The Nicholson Granite Complex is represented here by medium-coarse grained granite, a granophyric porphyry dyke and microgranite.

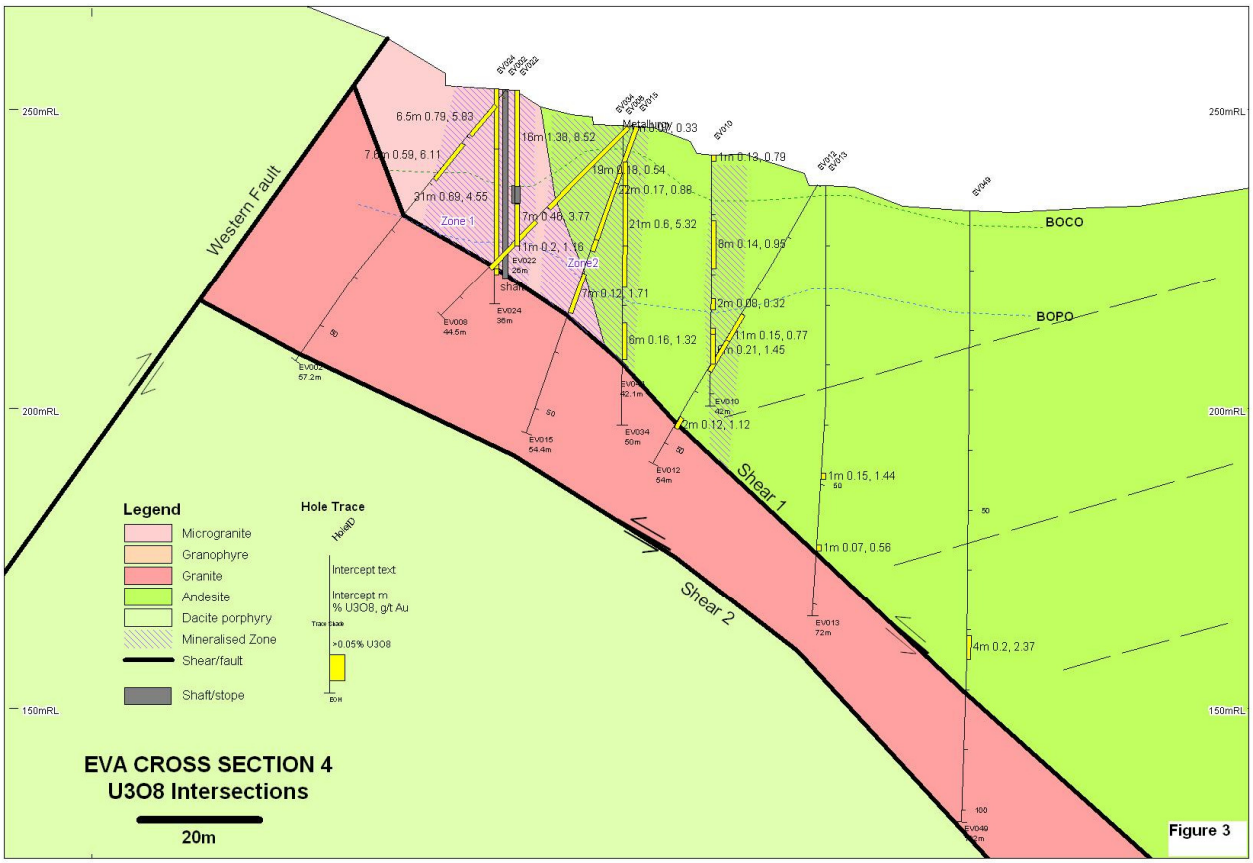


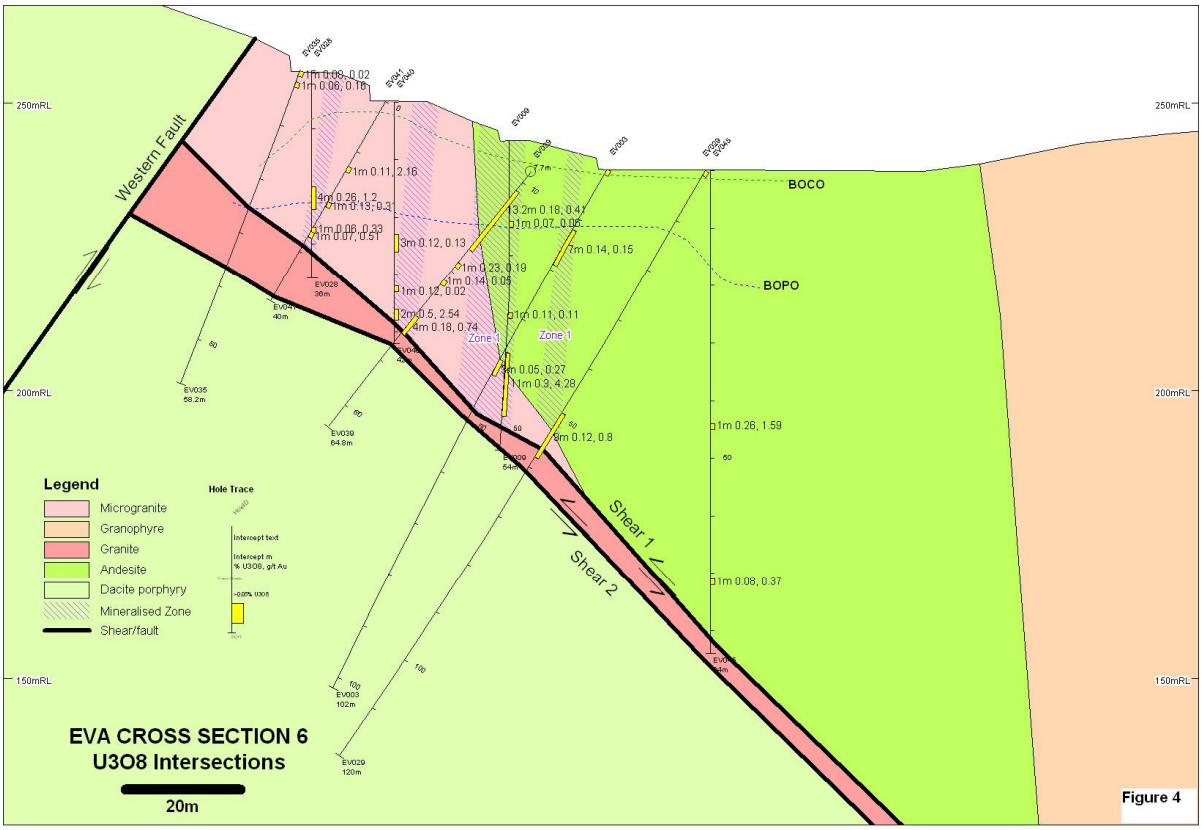
The two units of the Cliffdale Volcanics are separated by major shears but their relative ages are unknown. The granite, outcropping in the southwest and in the vicinity of the Eva workings, is bounded by the Western Fault and Shears 1 & 2 and wedged between the two volcanic units. It thins from a thickness of more than 50m in the south towards the north and down dip between Shear 1 and 2 and is thought to represent a sliver of granite from depth that has been emplaced by a duplex thrust system formed by these shears. The granophyric porphyry dyke outcrops in the east of the prospect trending northeast-southwest and dipping steeply to the southeast. Although locally altered it is not known to host uranium mineralisation.

The microgranite, which is probably a dyke and hosts much of the mineralisation, is bounded by the Western Fault and Shear 1 and has an intrusive hanging wall contact with the andesite. From the workings, where it is terminated against the granite, it extends in a northeasterly direction for several hundred meters. It is generally intensely altered and has previously been mapped as an arenite.

The interpretation of the structural controls on the mineralisation is still in progress but the following observations can be made. Previous mining at Eva followed high grade primary and secondary uranium mineralisation within a steeply inclined, east-west trending structure (Zone 1) that crosses the microgranite into the andesite with a strike length to date of about 100m (Figure 2). Although it pinches and swells, , it is interpreted to have a true width of 10-15m from the previous work and recent drilling

by NuPower (Figures 3, 4). There is no significant mineralisation directly associated with Shears 1 or 2 and instead Shear 1 represents the base of mineralisation while Shear 2 forms the base of the granite, between which drilling to date has shown that there is no mineralisation.





It appears that the preferred location for high grade mineralisation is on this structure within the microgranite and includes intersections such as (Figures 3,4):

Drill Hole		**Intercepts**
EV020		19m @ 2,900 ppm U_3O_8, 3.42 g/t Au from surface
	including	1m @ 11,700 ppm U_3O_8, 10.2 g/t Au from 2m
EV024		31m @ 6,900 ppm U_3O_8, 4.55 g/t Au from surface
	including	4m @ 11,800 ppm U_3O_8, 4.27 g/t Au from 8m
	and	2m @ 44,800 ppm U_3O_8, 28.69 g/t Au from 22m
EV036		12m @ 5,900 ppm U_3O_8, 13.39 g/t Au from surface
	including	2m @ 22,200 ppm U_3O_8, 10.24 g/t Au from 1m
	and	1m @ 10,200 ppm U_3O_8, 24.1 g/t Au from 8m
		30m @ 2,500 ppm U_3O_8, 2.07 g/t Au from 14m
	including	1m @ 10,200 ppm U_3O_8, 2.56 g/t Au from 24m
EV039		13.2m @ 1,800 ppm U_3O_8, 0.41 g/t Au from 11.8m

(Note: results from EV020, EV024 were previously reported in ASX release dated 15/12/2009)

The mineralisation, in the form of secondary yellow-green uranium oxides with pitchblende or uraninite, is associated with sericite-epidote-talc-silica alteration of the microgranite. Topaz is reported locally and traces of cassiterite are present suggesting an earlier stage of greisenisation may be present.

A second high grade zone, Zone 2, lies adjacent and to the south of Zone 1 and the two appear to merge. Zone 2 is steeply dipping over a distance of 50m with true widths to 14m. The mineralisation style is similar that of Zone 1. (Figures 2, 3):

Drill Hole		**Intercepts**
EV019		18m @ 1,800 ppm U_3O_8, 0.31 g/t Au from surface
EV034		21m @ 6,000 ppm U_3O_8, 5.32 g/t Au from 6m
	including	4m @ 26,000 ppm U_3O_8, 19.41 g/t Au from 12m

The drilling also suggests a number of mineralised zones to the north and south of Zones 1 & 2, that are steeply dipping with probable true widths of 2-5m (Figures 2-4). These mineralized lenses occur both within the microgranite and andesite, and include intersections such as:

Drill Hole		**Intercepts**
EV010		6m @ 2,100 ppm U_3O_8, 1.45 g/t Au from 29m
EV026		9m @ 7,200 ppm U_3O_8, 5.43 g/t Au from 24m
	including	1m @ 14,200 ppm U_3O_8, 18.55 g/t Au from 30m
EV038		5m @ 6,300 ppm U_3O_8, 3.39 g/t Au from 37m
	including	1m @ 28,800 ppm U_3O_8, 15.75 g/t Au from 40m
EV043		9m @ 1,300 ppm U_3O_8, 0.12 g/t Au from 23m
EV047		6m @ 2,200 ppm U_3O_8, 1.91 g/t Au from 54m
EV049		4m @ 2,000 ppm U_3O_8, 2.37 g/t Au from 71m

(Note: Intersection in EV010 was previously reported as 5m @ 2,400ppm U_3O_8, 1.69 g/t Au)

Mineral associations are similar to that of Zones 1 & 2 but also include secondary uranium oxides on joint planes, fractures and shears.

As reported in the Interim Eva Results ASX release of 15/12/2009, drill hole EV013 intersected a high gold with low uranium zone of 2m @ 6.17 g/t Au and 200ppm U_3O_8. Similar zones have also been noted, albeit not with the same grades, in several other holes on the margins of the uranium mineralisation, generally below the base of oxidation and include anomalous intercepts such as:

Drill Hole	Intercepts
EV023	1m @ 0.7 g/t Au, 200ppm $U_3O_8$from 8m
EV030	1m @ 0.61 g/t Au, 200ppm $U_3O_8$from 18m
EV034	1m @ 1.89 g/t Au, 500ppm $U_3O_8$from 29m
EV041	1m @ 1.64 g/t Au, 200ppm $U_3O_8$from 8m

A summary of mineralised uranium and gold intercepts above 500ppm U3O8 from all drill holes of the 2009 Eva drilling campaign are given below in Table 1.

The microgranite/andesite contact to the northeast has been tested only by holes EV050 and EV006 that did not intersect anomalous uranium. The interpreted strike and down plunge extent of the mineralisation has not been tested to date and therefore remains open.

2009 Eva Drilling- Significant Uranium/Gold Intercepts

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV001	0	1	1	700	0.07	1.54	0.89
	4	5	1	7,100	0.71	15.65	6.74
	8	15	7	16,000	1.60	35.27	4.79
including	*8*	*11*	*3*	*36,200*	*3.62*	*79.81*	*10.58*
EV002	1	1.2	0.2	1,400	0.14	3.09	2.12
historical mine void	1.2	3					
	3	9.5	6.5	7,900	0.79	17.42	5.83
including	3	4	1	18,600	1.86	41.01	14.00
including	8	9	1	13,000	1.30	28.66	9.90
historical mine void	9.5	11.4					
	11.4	19	7.6	5,900	0.59	13.01	6.11
including	12	14	2	10,600	1.06	23.37	5.14
EV003	0	1	1	700	0.07	1.54	0.05
	12	19	7	1,400	0.14	3.09	0.15
	38	41	3	500	0.05	1.10	0.27
EV004	0	1	1	1,200	0.12	2.65	0.17
	9	32	23	1,900	0.19	4.19	0.33
	39	40	1	2,100	0.21	4.63	2.37
EV005	12	15	3	1,000	0.10	2.20	1.13
	26	32	6	1,100	0.11	2.43	0.09
EV006	no significant uranium assays						
EV007	28	29	1	8,200	0.82	18.08	0.56
	39	40	1	2,100	0.21	4.63	0.54
	44	50	6	2,300	0.23	5.07	0.15
EV008	0	19	19	1,800	0.18	3.97	0.54
	22	33	11	2,000	0.20	4.41	1.16

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV009	14	15	1	700	0.07	1.54	0.06
	30	31	1	1,100	0.11	2.43	0.11
	37	48	11	3,000	0.30	6.61	4.28
including	41	42	1	12,200	1.22	26.90	28.70
EV010	0	1	1	1,300	0.13	2.87	0.79
	11	19	8	1,400	0.14	3.09	0.95
	24	26	2	800	0.08	1.76	0.32
	29	35	6	2,100	0.21	4.63	1.45
EV011	0	1	1	800	0.08	1.76	0.46
	9	13	4	600	0.06	1.32	0.07
	20	21	1	500	0.05	1.10	1.89
	24	26	2	700	0.07	1.54	0.01
	32	33	1	800	0.08	1.76	1.18
EV012	25	36	11	1,500	0.15	3.31	0.77
	45	47	2	1,200	0.12	2.65	1.12
EV013	48	49	1	1,500	0.15	3.31	1.44
	60	61	1	700	0.07	1.54	0.56
EV014	33	35	2	700	0.07	1.54	0.80
EV015	0	22	22	1,700	0.17	3.75	0.88
	26	33	7	1,200	0.12	2.65	1.71
EV016	not assayed						
EV017	no significant uranium assays						
EV018	0	5	5	2,300	0.23	5.07	1.39
	12	14	2	600	0.06	1.32	4.93
EV019	0	18	18	1,800	0.18	3.97	0.31

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV020	0	19	19	2,900	0.29	6.39	3.42
including	2	3	1	11,700	1.17	25.79	10.20
EV021	0	28	28	1,600	0.16	3.53	2.70
including	10	11	1	10,700	1.07	23.59	1.92
EV022	0	16	16	13,800	1.38	30.42	8.52
including	1	7	6	18,900	1.89	41.67	9.53
including	8	9	1	11,400	1.14	25.13	2.92
including	10	11	1	15,600	1.56	34.39	3.22
including	12	14	2	14,600	1.46	32.19	7.31
including	15	16	1	18,300	1.83	40.34	21.30
historical mine void	16	19					
	19	26	7	4,600	0.46	10.14	3.77
including	23	24	1	12,100	1.21	26.68	2.31
EV023	0	1	1	600	0.06	1.32	0.28
	5	6	1	800	0.08	1.76	0.27
	9	32	23	4,100	0.41	9.04	5.17
including	15	16	1	10,000	1.00	22.05	6.81
including	27	31	4	12,300	1.23	27.12	18.32
EV024	0	31	31	6,900	0.69	15.21	4.55
including	8	12	4	11,800	1.18	26.01	4.27
including	22	24	2	44,800	4.48	98.77	28.69
EV025	0	22	22	1,200	0.12	2.65	0.25
	25	26	1	700	0.07	1.54	1.95
EV026	0	9	9	800	0.08	1.76	0.05
	24	33	9	7,200	0.72	15.87	5.43
including	30	31	1	14,200	1.42	31.31	18.55
EV027	10	13	3	800	0.08	1.76	0.09
	17	20	3	2,100	0.21	4.63	1.35
	29	31	2	700	0.07	1.54	0.66

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV028	20	24	4	2,600	0.26	5.73	1.20
	27	28	1	600	0.06	1.32	0.33
EV029	0	1	1	500	0.05	1.10	0.02
	49	58	9	1,200	0.12	2.65	0.80
EV030	1	4	3	1,300	0.13	2.87	0.65
	12	13	1	500	0.05	1.10	0.02
EV031	12	17	5	1,000	0.10	2.20	0.10
	37	39	2	1,400	0.14	3.09	2.78
	47	50	3	4,500	0.45	9.92	1.75
including	47	48	1	11,100	1.11	24.47	4.22
EV032	no significant uranium assays						
EV033	0	11	11	900	0.09	1.98	0.10
EV034	0	1	1	700	0.07	1.54	0.33
	6	27	21	6,000	0.60	13.23	5.32
including	12	16	4	26,000	2.60	57.32	19.41
	33	39	6	1,600	0.16	3.53	1.32
EV035	0	1	1	800	0.08	1.76	0.02
	2	3	1	600	0.06	1.32	0.16
EV036	0	12	12	5,900	0.59	13.01	13.39
including	1	3	2	22,200	2.22	48.94	10.24
including	8	9	1	10,200	1.02	22.49	24.10
	14	44	30	2,500	0.25	5.51	2.07
including	24	25	1	10,200	1.02	22.49	2.56
EV037	no significant uranium assays						
EV038	37	42	5	6,300	0.63	13.89	3.39
including	40	41	1	28,800	2.88	63.49	15.75

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV039	0	2	2	700	0.07	1.54	0.28
	11.8	25	13.2	1,800	0.18	3.97	0.41
	28	29	1	2,300	0.23	5.07	0.19
	32	33	1	1,400	0.14	3.09	0.05
	40	44	4	1,800	0.18	3.97	0.74
EV040	23	26	3	1,200	0.12	2.65	0.13
	32	33	1	1,200	0.12	2.65	0.02
	36	38	2	5,000	0.50	11.02	2.54
EV041	13	14	1	1,100	0.11	2.43	2.16
	20	21	1	1,300	0.13	2.87	0.31
	26	27	1	700	0.07	1.54	0.51
EV042	no significant uranium assays						
EV043	23	32	9	1,300	0.13	2.87	0.12
	38	41	3	1,400	0.14	3.09	0.15
	54	57	3	1,600	0.16	3.53	0.72
EV044	Metallurgical PQ cored hole. Not sampled.						
EV045	44	45	1	2,600	0.26	5.73	1.59
	71	72	1	800	0.08	1.76	0.37
EV046	16	17	1	600	0.06	1.32	0.22
	20	21	1	1,200	0.12	2.65	0.40
	24	27	3	900	0.09	1.98	0.37
	31	32	1	1,000	0.10	2.20	0.01
	59	60	1	500	0.05	1.10	0.01
	62	64	2	700	0.07	1.54	BLD
	69	71	2	1,200	0.12	2.65	BLD
EV047	43	44	1	600	0.06	1.32	0.05
	54	60	6	2,200	0.22	4.85	1.91
	68	69	1	2,100	0.21	4.63	1.48
EV048	33	36	3	3,100	0.31	6.83	0.30

Hole ID	From	To	Width	U_3O_8 (ppm)	U_3O_8 (%)	U_3O_8 (lb/tonne)	Au (g/t)
EV049	71	75	4	2,000	0.20	4.41	2.37

EV050 no significant Uranium assays

Notes:

* Intersections have been calculated using a 500ppm U_3O_8 lower cut off, with up to 2m of internal waste

* 1 lb/per tonne U_3O_8 = 454ppm U_3O_8 = 0.0454% U_3O_8

The information in this release relates to exploration results and geological interpretation by Mr Warrick Rafferty (MSc). Mr Rafferty is a Member of the Australasian Institute of Mining and Metallurgy and a Fellow of the Society of Economic Geology and has sufficient experience to qualify as a Competent Person as defined in the Australasian Code for Reporting of Mineral Resources and Ore Reserves (JORC CODE) for reporting exploration results. Mr Rafferty consents to the inclusion of the data in the form and context in which it appears.

This release contains forward-looking statements. The actual results could differ materially from a conclusion, forecast or projection in the forward-looking information. Certain material factors or assumptions were applied in drawing a conclusion or making a forecast or projection as reflected in the forward-looking information.