

## YANDEEARRA ROCK CHIP SAMPLES

20 July 2007

As advised in Chalice Gold Mines Limited's report for the quarter ended 31 March 2007, the Company has previously identified a number of radiometric anomalies at its Yandearra Project in the West Pilbara.

A heli-supported fieldwork campaign has been conducted to further assess the anomalies, including ground reconnaissance, scintillometer surveys and rock chip sampling.

Assay results have now been received from the rock chip samples.

34 samples were submitted, from 13 separate target areas.

Significant gold and uranium results returned from samples taken at Target YAN20 include:

- Sample 114528 returned 14.64 g/t gold and 920 ppm uranium; and
- Sample 114527 returned 1.06 g/t gold and 50 ppm uranium.

Assay results from all rock chip samples are detailed within the attached table.

The YAN20 target area comprises a discrete radiometric anomaly within the basal units of the Fortescue Group, located within the southern part of the Yandearra Project Area.

Chalice Gold Mines will undertake further work to assess the implications of the above rock chip results. The Company expects to provide further comment within its forthcoming quarterly report.

*The information in this announcement that relates to Exploration Results is based on information compiled by Mr Bryan Alexander, an employee of Chalice Gold Mines Ltd, who is a Member of the Australian Institute of Geoscientists. Mr Alexander has sufficient experience in the field of activity being reported to qualify as a Competent Person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, and consents to the release of information in the form and context in which it appears here.*

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Sample Number	Easting (GDA 94)	Northing (GDA94)	Target Area	Au Average (ppb)	Au 1 (ppb)	Au 2 (ppb)	Au 3 (ppm)	U (ppm)
114501	608966	7652030	YAN04	4	4			4.82
114502	608893	7652230	YAN04	<1	<1			7.44
114503	608772	7652249	YAN04	39	47	32		2.55
114504	608911	7651945	YAN04	3	3			2.87
114505	632306	7657375	YAN08	3	3			2.93
114506	632143	7657476	YAN08	<1	<1			2.12
114507	631904	7657769	YAN08	<1	<1			3.01
114508	631872	7657818	YAN08	3	3			0.24
114509	631233	7659220	YAN08	9	9			4.33
114510	630078	7659902	YAN07	<1	<1			0.57
114511	630158	7659754	YAN07	<1	<1			3.49
114512	630158	7659754	YAN07	<1	<1			0.58
114513	630213	7659554	YAN07	<1	<1			3.22
114514	630409	7600617	YAN23	<1	<1			0.20
114515	639353	7658213	YAN25	<1	<1			0.51
114516	639266	7658153	YAN25	<1	<1			0.34
114517	639112	7658047	YAN25	<1	<1			0.16
114518	609550	7665695	YAN01	<1	<1			0.77
114519	609539	7665717	YAN01	<1	<1			0.85
114520	628125	7653058	YAN11	<1	<1			9.18
114521	627927	7653198	YAN11	<1	<1			34.25
114522	627660	7653319	YAN11	2	2			1.95
114523	627132	7653473	YAN11	<1	<1			6.00
114524	627757	7653608	YAN24	1	1			0.42
114525	626670	7653630	YAN24	<1	<1			0.31
114526	627994	7651508	YAN20	15	15			23.90
114527	628047	7651563	YAN20	1069	1138		1.00	50.71
114528	628020	7651540	YAN20	14640	16360		12.92	920.70
114529	635029	7649350	YAN10	74	79	69		24.98
114530	635269	7649524	YAN10	65	70	61		22.71
114531	636895	7652122	YAN12	12	12			14.76
114532	636909	7650560	YAN12	4	4			34.85
114533	634280	7652260	YAN13	<1	<1			4.29
114534	614530	7646288	YAN22	5	5			5.66

Analyses on 2 - 3kg surface rockchip samples by Genalysis Laboratory Services, Perth. Gold and uranium assays were carried out by Method B/MS to a detection limit of 1 ppb (Au) and 0.01 ppm (U) respectively.