



ASX ANNOUNCEMENT

10 September 2010

YANDICOOGINA SOUTH METALLURGICAL TESTING

- Promet Engineers appointed for the initial metallurgical study program
- Diamond core obtained for metallurgical and assay testing
- Hydrological monitoring commenced

The Directors of Hemisphere Resources Limited (ASX: HEM – “Hemisphere” or “the Company”) advise that a diamond drilling program has been completed at the Yandicoogina South Project and that the core has been submitted to the laboratories.

Metallurgical Test Work

Promet Engineers have been appointed to manage the study program. The metallurgical testing will be an initial sighter test work program. The program includes:

Drop Test - this is designed to assess lump/fines ratios.

Assay by size fractions – this is designed to test the blending and upgrading characteristics of the mineralisation.

Crushing data – this is designed to determine physical and mechanical properties.

Moisture data – the moisture content will be determined to provide design inputs.

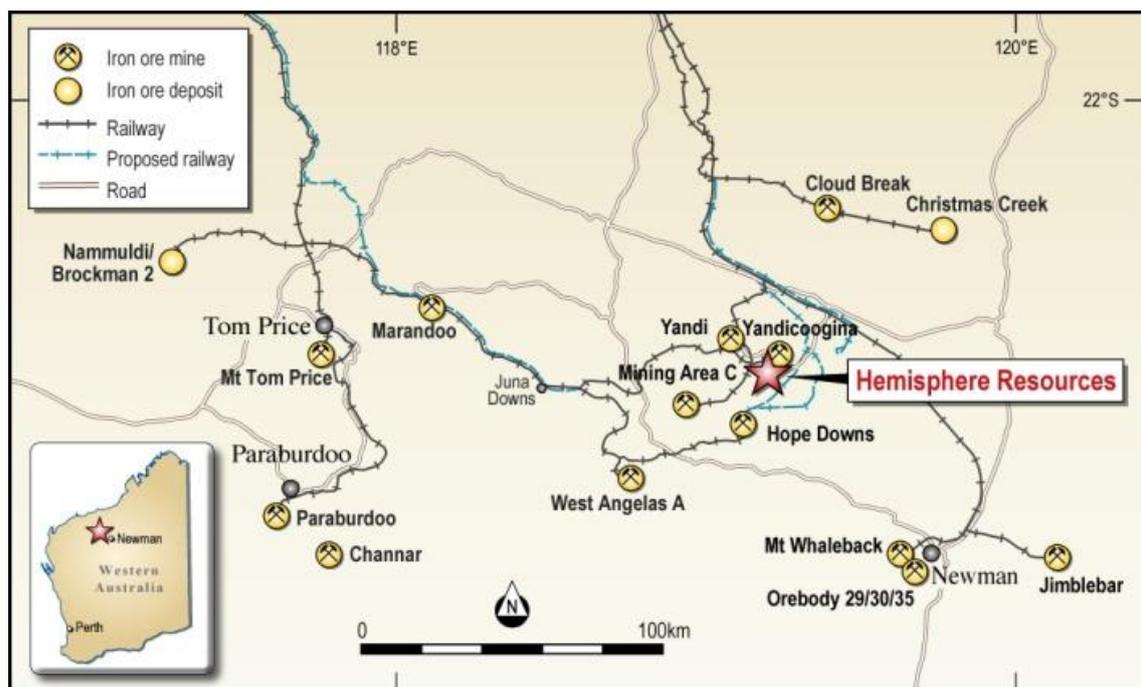


Figure 1: Location of Hemisphere Tenement E47/1904

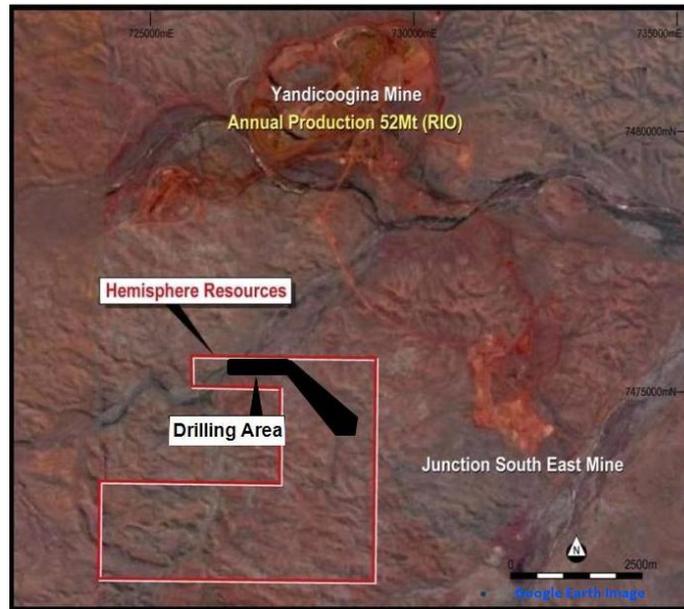


Figure 2: Location of E47/1904 Drilling Area showing proximity to Rio Tinto Operations

Diamond Drilling

Three sites were drilled with PQ drill core taken for metallurgical testing and HQ core taken for assay control and validation of the reverse circulation drill results (Figure 3).

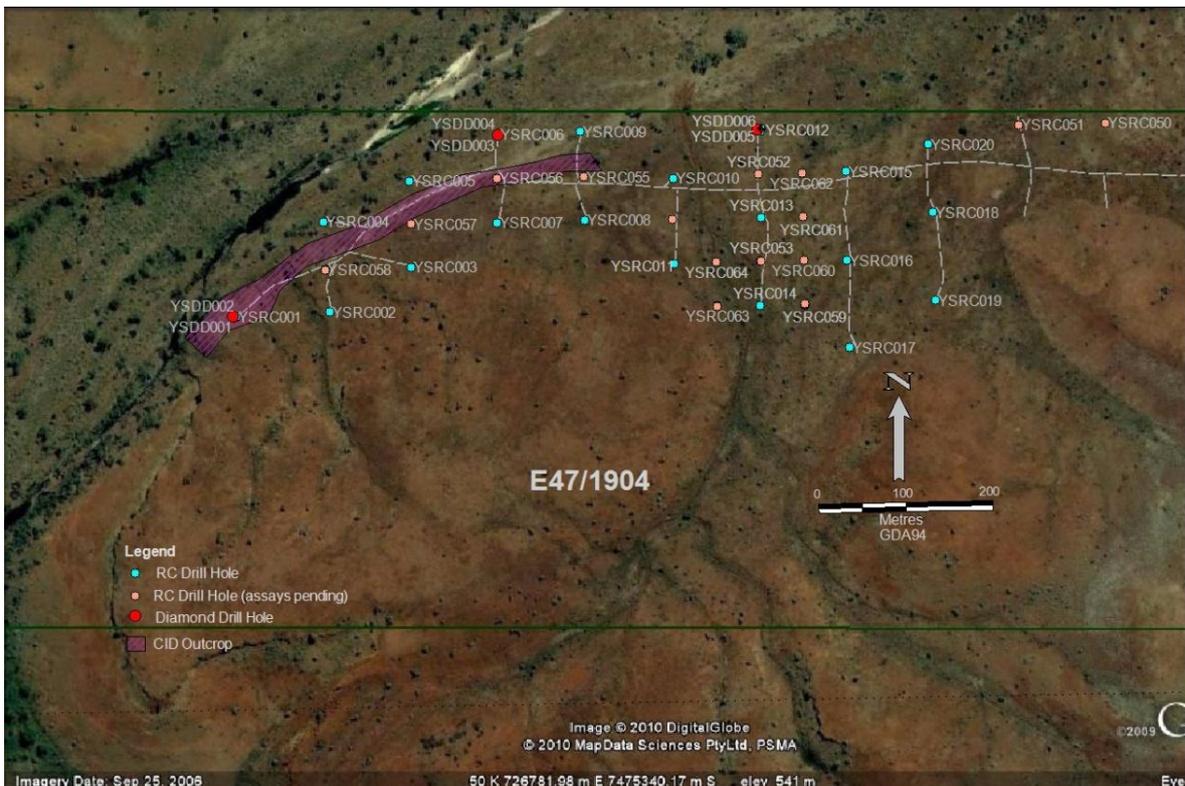


Figure 3: Diamond Drill Hole Sites at the Yandicoogina South Project

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All drill core has been geologically logged and density data collected in the field.

The drilling was designed to twin the high grades obtained from RC drilling which were previously announced. RC holes tested by diamond drilling were:

Drill Hole	Easting GDA94	Northing GDA94	Collar RL	Hole length	From (m)	To (m)	Interval (m)	Fe %	SiO ₂ (%)	Al ₂ O ₃ (%)	P (%)	LOI (950)%
YSRC001	726296	7475447	531.09	29	0	17	17	58.0	5.2	3.2	0.06	7.6
				incl	1	17	16	58.2	5.1	3.0	0.06	7.7
YSRC006	726601	7475650	524.80	35	4	23	19	55.6	7.8	2.6	0.09	9.5
				incl	5	19	14	56.3	7.3	2.4	0.09	9.1
YSRC012	726900	7475650	525.42	41	6	34	28	54.7	9.5	3.8	0.07	7.4
				incl	7	17	10	59.8	4.8	2.8	0.09	5.9

Hydrological Monitoring

During the diamond drilling program water level monitoring instruments were installed at the drill sites in order to commence groundwater investigations at the Yandicoogina South Project.

Reverse Circulation Drilling

Assays for the previous RC drilling undertaken during July 2010 are still outstanding. Samples were not submitted from drilling in the eastern part of the valley as bedrock was encountered directly below the alluvium. The CID target area remains open to the south and the west and outcrops have been confirmed by reconnaissance.



Photo 1: PQ Drill Core from the Yandicoogina South Project



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The information in this release is based on information compiled by Peter Schwann who is a Fellow of the Australasian Institute of Mining and Metallurgy and Chartered Professional (Geology).

Mr Schwann provides consulting services to Hemisphere Resources.

Mr Schwann has sufficient relevant experience to qualify as a Competent Person as defined in the JORC Code (2004) and consents to the inclusion of this information in the form and context in which it appears.

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