



ASX and Media Release

Further increase in Buzzard DSO resource inventory

Western Plains Resources Ltd (ASX:WPG) is pleased to advise that key outstanding data from the recent drilling program at the Buzzard direct shipping iron ore project near Coober Pedy in South Australia is now to hand. The total mineral resource estimate for the Buzzard deposit is now 14.1 million tonnes at an average grade of 62.0% Fe.

WPG released a resource estimate for the Buzzard DSO iron ore deposit in MC 3810 at Hawks Nest on 22 February 2008. Since then, assays have been received for four more RC percussion holes, all holes have been accurately surveyed using a downhole gyroscopic survey instrument, and SG measurements have been made on diamond drill core. The updated resource estimate for the deposit is set out in Table 1.

**Table 1
Mineral Resource Estimate, Buzzard Deposit**

Resource Category	Tonnes (million)	Grade				
		Fe%	SiO ₂ %	Al ₂ O ₃ %	P%	LOI%
Limonite/Goethite Zone						
Indicated	0.3	59.6	6.6	3.6	0.04	3.8
Primary Zone						
Measured	12.1	62.1	8.1	1.4	0.05	0.9
Indicated	1.2	60.5	8.2	2.4	0.07	1.2
Inferred	0.5	62.3	8.5	1.1	0.07	0.8
Sub-total	13.8	62.0	8.1	1.5	0.05	1.0
Total, Both Zones						
Measured	12.1	62.1	8.1	1.4	0.05	0.9
Indicated	1.5	60.3	7.9	2.6	0.06	1.8
Inferred	0.5	62.3	8.5	1.1	0.07	0.8
TOTAL	14.1	62.0	8.1	1.6	0.05	1.0

23 April 2008



ABN 51 109 426 502
 Level 9, Kyle House
 27-31 Macquarie Place
 Sydney NSW 2000
 Telephone (+612) 9251 1044
 Facsimile (+612) 9247 3434
info@westernplainsresources.com.au
www.westernplainsresources.com.au

The resource estimate shown in Table 1 has been prepared using a 55% Fe cut-off grade. The estimate has been made using data from 2,459 multi-element assays. The block model has been constructed using SGs of 4.57 t/m³ for the primary ore zone (based on core measurements) and 3.5 t/m³ for the goethite/limonite zone. Grades have been estimated using inverse distance squared interpolation.

Assays are still outstanding for the four diamond holes drilled at Buzzard. Core from the large diameter holes has been submitted for a comprehensive suite of metallurgical tests and assays are not expected for some time. No material change to the resource estimate is expected when these holes are incorporated into the deposit's data base.

The combined mineral resource estimate for the Company's Peculiar Knob and Buzzard deposits is set out in Table 2.

Table 2
Total Mineral Resource Estimates, Peculiar Knob and Buzzard Deposits

Resource Category	Tonnes (million)	Grade				
		Fe%	SiO ₂ %	Al ₂ O ₃ %	P%	LOI%
Measured	25.5	62.9	7.7	0.8	0.03	0.7
Indicated	5.6	62.6	8.1	0.8	0.03	0.7
Inferred	2.0	64.0	6.6	0.5	0.03	0.4
TOTAL	33.1	62.9	7.7	0.8	0.03	0.7

Assays for key RC holes at the Tui DSO prospect at Hawks Nest have still not been received. The Company expects to be able to release a resource estimate for this deposit shortly, when all data is available.

Competent Persons

The review of exploration activities and results and the mineral resource estimates for the Buzzard and Peculiar Knob deposits contained in this report are based on information compiled by Mr Gary Jones, a Member of the Australasian Institute of Mining and Metallurgy. He is Technical Director of Western Plains Resources Limited and a full time employee of Geonz Associates Limited. He has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the December 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Gary Jones has consented in writing to the inclusion in this report of the matters based on his information in the form and context in which it appears.

Further Information

For further information please contact WPG's Executive Chairman Bob Duffin, on (02) 9251 1044 or 0412 234 684, or Heath Roberts, Executive Director and Company Secretary on (02) 9247 7359 or 0419 473 925.