



For immediate dissemination

TSX-V:MMS

September 20, 2006

NR 2006-17

LAKE GILES METALURGICAL RESULTS (STAGE.1 DRILLING)

Vancouver, B.C. – Macarthur Minerals Limited (TSXV – MMS) (the "Company") is pleased to provide the following update on drilling results from exploration activities at its 100%- owned Lake Giles iron-ore / nickel project in Western Australia.

Final assay results have just been received from the Davis Tube Test from Stage 1 drilled in July 2006. The program included 7 RC holes for a total of 933 meters. The company is pleased to announce that the magnetite intersected have returned the following metalurgical results:

Highlights:

Hole ID	FROM (m)	TO (m)	Interval	DTC Fe %	DTC SiO ₂ %	DTC Al ₂ O ₃ %	DTC P%
LGRC_001	80	147	67	64.8	8.5	0.26	0.059
LGRC_002	125	163	38	64.2	9.8	0.11	0.067

NOTES:

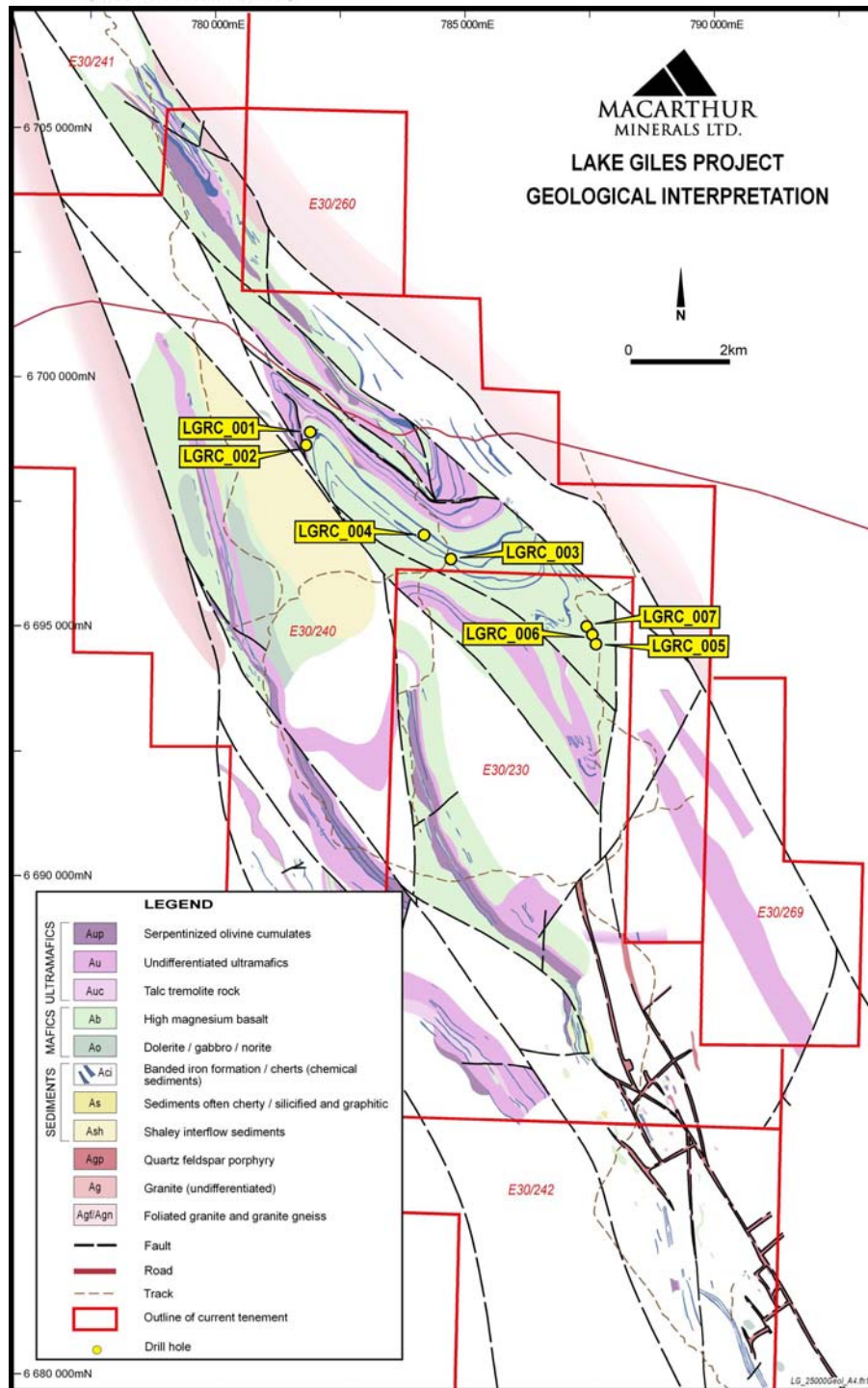
- 1) DTC = Davis Tube Concentrate
- 2) LGRC_002 was terminated at 163 meters (in mineralisation) due to drilling problems.
- 3) Complete list of 22 results attached

Assay received are in line with the field geologist observations, test work to date has been conducted on grinding the samples at 45 micron however, future test work will implement grinding at 38 microns in a bid to lower the silica (SiO₂%) content.

Future metallurgical test work which would include bulk-sample grinding, concentrating and flotation will be needed to be undertaken to determine the ultimate concentrate, grade and quality.

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QA-QC Statement

Mr. Nick Revell is responsible for the verification and quality assurance of the Company's exploration data and analytical results from the Lake Giles project.

A standard DT test has been developed for the magnetites at Lake Giles:

Procedure - Pulverising

1. Crush the sample to 100% below 2mm
2. Separate a sample of approximately 150gm for pulverising
3. Pulverise the sample for 150 seconds in a ring pulverizer of nominal size 100 or 125cc.

Wet screen the sample at 45micron

1. Dry and regrind the oversize for 4 seconds for every 5 gms of sample oversize
2. Repeat the screening, which can now be dry, until less than 5gm is above 45µ.
3. Sample the pulverised product to give a 20gm sample for DTR work

The precise Davis tube method will depend on the machine used but consistent procedures should be used for each set of samples. The nominal procedure has the following condition:

- Stroke Frequency - 60/minute
- Stroke length – 38mm
- Magnetic field strength – 3000 gauss
- Tube Angle – 45 degrees
- Tube Diameter – 25mm
- Water flow rate – 540ml/min
- Washing time -15 minutes

The tailings sample is not normally collected but the concentrate sample is collected in a small collector after washing by switching the magnet.

Sample testing

The concentrate should normally be dried and the weight of the concentrate as a percentage of feed estimated. Assays of the concentrate will depend on the final requirement but will normally include:

%Fe	%SiO ₂	%Al ₂ O ₃	%CaO	%MgO	%TiO ₂	%P	%S	%Mn	%LOI
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**Qualified Person**

Mr. Nick Revell BSc is a member of AusIMM, and a Company director, is a Qualified Person as defined in National Instrument 43-101- Standards of Disclosure for Mineral Projects ("NI 43-101"), in charge of the exploration on the Lake Giles project.

On behalf of the Board of Directors,

MACARTHUR MINERALS LIMITED

"David K. Barwick"

David K Barwick, President, Chairman & CEO

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THE TSX VENTURE EXCHANGE DOES NOT ACCEPT RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF THIS RELEASE

This news release contains forward-looking statements regarding ongoing and upcoming exploration work and expected geology, geological formations and structures. Actual results may differ materially from those anticipated in these statements. The TSX Venture Exchange has not reviewed and does not accept responsibility for the adequacy or accuracy of this release.

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SAMPLE_ID	CONC Fe	HEAD Fe	CONC SiO2	HEAD SiO2	CONC Al2O3	HEAD Al2O3	CONC P	HEAD P	CONC S	HEAD S
Unit	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.001	0.001	0.001
CSN=LRGC001:80-85	68.483	30.554	4.377	42.856	0.168	1.662	0.024	0.057	0.045	0.114
CSN=LRGC001:85-90	66.376	25.802	6.750	53.045	0.232	1.708	0.032	0.052	0.167	0.219
CSN=LRGC001:90-95	66.826	28.110	6.579	49.852	0.103	1.074	0.025	0.063	0.165	0.410
CSN=LRGC001:95-100	65.520	31.603	8.619	48.176	0.055	0.620	0.023	0.061	0.052	0.104
CSN=LRGC001:100-105	63.818	31.031	10.299	49.013	0.041	0.454	0.030	0.064	0.081	0.108
CSN=LRGC001:105-110	63.915	32.125	10.130	47.555	0.441	0.664	0.066	0.071	0.130	0.119
CSN=LRGC001:110-115	62.958	29.450	11.189	50.943	0.015	0.270	0.035	0.064	0.066	0.049
CSN=LRGC001:115-120	63.653	30.404	9.886	49.055	0.014	0.379	0.031	0.063	0.123	0.083
CSN=LRGC001:120-125	68.869	30.268	4.366	48.392	0.008	0.343	0.021	0.063	0.105	0.079
CSN=LRGC001:125-130	69.878	30.941	2.437	42.993	0.017	0.101	0.019	0.060	0.041	0.034
CSN=LRGC001:130-135	64.116	15.566	8.369	47.708	0.812	10.003	0.017	0.051	0.107	0.043
CSN=LRGC001:135-140	49.001	14.298	26.487	46.485	0.828	9.607	0.021	0.049	0.488	0.077
CSN=LRGC001:140-145	69.357	17.422	3.184	47.111	0.296	7.241	0.017	0.060	0.854	0.207
CSN=LRGC001:145-147	65.116	18.582	6.934	46.461	0.648	6.732	0.017	0.049	1.117	0.124
Average	64.8	26.2	8.54	47.83	0.26	2.92	0.027	0.059	0.253	0.126

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CSN=LRGC002:125-130	62.469	31.820	12.001	48.953	0.128	0.677	0.038	0.068	0.219	0.115
CSN=LRGC002:130-135	61.734	33.773	13.561	47.439	0.078	0.392	0.036	0.065	0.165	0.081
CSN=LRGC002:135-140	60.650	28.042	14.368	50.156	0.274	2.165	0.044	0.065	0.108	0.038
CSN=LRGC002:140-145	61.247	31.985	13.476	47.129	0.154	0.823	0.053	0.068	0.268	0.119
CSN=LRGC002:145-150	65.626	30.411	7.402	46.366	0.128	1.105	0.036	0.065	0.193	0.069
CSN=LRGC002:150-155	69.182	29.982	3.411	48.504	0.090	0.387	0.021	0.066	0.164	0.073
CSN=LRGC002:155-160	65.975	30.176	7.610	47.731	0.038	0.468	0.028	0.069	0.577	0.207
CSN=LRGC002:160-163	66.741	32.268	6.638	46.089	0.031	0.351	0.031	0.070	0.426	0.168
Average	64.2	31.1	9.81	47.80	0.12	0.80	0.036	0.067	0.265	0.108

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