



LAGUNA RESOURCES NL

ASX Release

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LAGUNA RESOURCES NL

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Issued Capital:

Approximately 720 million shares

ASX Symbol: LRC

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SEPTEMBER 2009 QUARTERLY REPORT

HIGHLIGHTS:

- The mineralisation at Arqueros comprises gold silver epithermals located 20 kilometres north of Kinross Gold Corporation's La Coipa Gold Mine (225,000 oz pa gold equivalent).
- The Arqueros North and South deposits were mined from 2000 to 2004 with approximately 278,000 ounces of gold equivalent extracted at an average gold equivalent grade of 7.1 g/t gold.
- The Company is now developing an open cut "Base Case" for the recommencement of mining at a rate of 100,000 to 120,000 ounces per annum of gold equivalent. This is based on an exploration target for the project of between 20 to 40 million tonnes at a grade of between 1.5 and 2.0g/t gold equivalent for between one and two million ounces.
- Approximately 135 thousand metres of underground drilling have been completed already on the project.
- Potential to significantly expand the size of the project with further exploration drilling.
- Experienced Chilean based management team established and actively advancing the project.
- Mr Matthew Wood (Chairman), Dr Nick Lindsay (Managing Director) and Mr Jonathan Murray (Non Executive Director) were appointed to the Board of the Company.

OPERATIONS - CHILE

An experienced management team based in Chile has been established and an operational base set up in the regional mining centre, Copiapo. The Company has now completed preparatory work and commenced field activities on the Arqueros Gold Project. Initial field activities have comprised the re-opening of existing underground development for surveying, sampling and mapping of remnant ore zones with a drilling programme being planned to commence in late November 2009.

Surveying, surface mapping and sampling the surface geology has started. This work is being accompanied by metallurgical test work, geotechnical investigations, the development of a conceptual mine plan and environmental impact assessment.



Modelling of existing data to produce a mineral resource estimate was considerably advanced in the quarter, and will result in the publication of a maiden JORC Inferred Resource in the coming weeks.

The immediate focus of the exploration programme is to ascertain the size and quality of the mineralisation at Arqueros, expand and upgrade that resource towards the two million ounce target, and to scope out the development for feasibility study commencing by the second half of 2010.

It is pertinent that this project has a number of development options, which will become clearer as work progresses.

Location

The Arqueros gold-silver deposit (“Arqueros”) is located in the northern part of the Maricunga gold belt of the Atacama Region of Northern Chile (Figure 1). The Maricunga gold belt is a world class gold province with several multi-million ounce gold deposits. Over seventy million ounces of gold have been discovered in the Maricunga since the 1980s. The Arqueros Project is serviced by good infrastructure, with high tension power lines supplying La Coipa Mine to the immediate south.



Geology

The Arqueros Project is hosted within the Esperanza alteration area (115 km², Miocene age) of the La Coipa sector of the Maricunga district of northern Chile. The Maricunga district is characterised by a series of gold-rich high sulphidation (acid sulphate) epithermal systems, and in 2008, produced approximately 450,000 oz gold equivalent from two mines, the Maricunga Mine (formerly the Refugio Mine) and La Coipa Mine.

The geology of Arqueros (Figure 3) is characterised by high sulphidation epithermal alteration, associated with northwest and northeast structures hosted in Tertiary acid volcanics, tuffs and breccias, overlying folded Paleozoic marine sediments, and intruded by dacite stocks. The principal local controls for alteration and mineralisation are the presence of dacite and rhyolite porphyry stocks, zones of structural weakness and the presence of stratigraphic traps, such as porous volcanoclastics. Alteration tends to be strongly argillic with kaolinite, cryptocrystalline quartz, and in places barite, alunite and abundant jarosite. Textural destruction by leaching is partially complete.

Mineralisation at Arqueros occurs in two distinct domains:

- Silver domain, occurring as a horizontal silicified silver-rich mantos style deposit
- Gold domain, occurring as a series of silicified sub-vertical gold-rich structures.



The ore mineralogy has been affected by supergene processes and is oxidised.

Prospectivity

Previous mining (2000-2004) on the Arqueros Project focused on underground extraction of high grade slugs, with about 275,000 of gold equivalent ounces at an average gold equivalent grade of 7 g/t over five years. The project is considered to be prospective for a 1 to 2 million ounce deposit based on 20-40 Mt at 1.5 to 2 g/t Au equivalent. There are also a number of additional high quality targets within the Arqueros license which are known to be mineralised but poorly tested.



CORPORATE

In June 2009, Laguna Resources Chile Limitada, a wholly-owned subsidiary of Laguna Resources Limited signed an option agreement with Anglo American Norte S.A. for the acquisition of the Arqueros gold-silver deposit, which is located in the northern part of the Maricunga gold belt of the Atacama Region of Northern Chile.

Subsequently, Laguna Resources NL, formerly Southern Pacific Petroleum NL, acquired Laguna Resources Limited for 250 million shares and 100 million options. This was approved by shareholders at a General Meeting of the company held on 6th August 2009.

Mr Matthew Wood (Chairman), Dr Nicholas Lindsay (Managing Director) and Jonathan Murray (Non-Executive Director) were appointed to the Board of the Company and are now actively driving the development of the Arqueros Gold Project. Directors David Steinepreis, Patrick Burke and Gary Steinepreis have retired from the Board.



Laguna Resources is working to create a strong and sustainable exploration and development business focused on the short term development of the Arqueros Gold Project. The Company is also assessing additional opportunities for growth in the Maricunga Gold Belt

Nick Lindsay
Managing Director

Dr Nicholas Lindsay is a Member of the Australian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr Lindsay is the Managing Director of Laguna Resources NL and consents to the inclusion in this release of the matters based on his information and information presented to him in the form and context in which it appears

DISCLAIMER

This release contains certain **forward-looking statements**. These forward-looking statements are based on management's expectations and beliefs concerning future events. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, some of which are outside the control of Laguna Resources N, which could cause actual results to differ materially from such statements.

The **Exploration Target** presented is 1 to 2 million gold equivalent ounces of potential gold-silver mineralisation grading between 1.5 and 2.0 g/t gold equivalents. The potential quantity and grade is conceptual in nature. There has been insufficient exploration to define a Mineral Resource under the JORC Code and it is uncertain if further exploration will result in the determination of a Mineral Resource.

Figure 1. Location of Arqueros project in Northern Chile



Figure 2. Panorama of the Arqueros, looking west



Figure 3. Arqueros geology (compilation map)

