

#### 24 July 2019

#### CORPORATE DIRECTORY

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# PHASE II DRILLING COMPLETED AT SORBY HILLS

Pacifico Minerals Limited (ASX: PMY) ('**Pacifico**' or the '**Company**') is pleased to provide an update on the Phase II drilling program at its 75% owned Sorby Hills Lead Silver Zinc Project ('**Sorby Hills'** or the '**Project**'), located 50km northeast of Kununurra in Western Australia.

# **HIGHLIGHTS**

- Phase II infill and extension drilling program consisting of 75 drill holes for 5,959m has now been completed at Sorby Hills.
- Distribution of strong visible lead mineralisation indicates Phase II drilling program should increase Indicated Resources within the Mineral Resource Estimate ('MRE').
- Drilling has again confirmed the ability to increase the confidence in the MRE with infill drilling campaigns.
- Assay results expected to flow from early August.
- Northern section of CDEF deposit expected to convert to Indicated for inclusion in the upcoming Optimised Pre-Feasibility Study ('Optimised PFS').
- Observed zinc mineralisation in recent drilling confirms significant potential for future zinc production.

# **INTRODUCTION**

**Pacifico intends to develop a large near-surface flat-lying lead-silver-zinc deposit.** After completing the acquisition of a 75% interest in the Sorby Hills Project in late 2018, Pacifico carried out a Phase I drill program that significantly increased the Indicated resources included in the PFS completed in 1H 2019. The PFS estimated a CAPEX of A\$95.4M to develop the mine, with a 16-month payback and a pre-tax NPV<sup>8</sup> of A\$243M<sup>1</sup> (See ASX Announcement 26 March 2019).

# PHASE II DRILLING PROGRAM

The Phase II infill and extension drilling program ('**Phase II**') commenced in May 2019 with an intention to combine an updated MRE with the recently improved metallurgical testwork results and mining studies that are currently underway, to enhance the economics and improve confidence of an Optimised PFS, scheduled for completion during Q4 2019.

The drilling program was designed with the assistance of mining and geotechnical consultants Entech Mining to convert Inferred Resources to Indicated Resources, currently at **10.9Mt of 5.0% Pb equivalent (3.9% Pb and 46g/t Ag)** as per ASX Announcement 7 March 2019, provide geotechnical (pit wall stability) information for pit designs, and to deliver representative samples for further metallurgical work. The program was focused on shallow mineralisation above 100m depth, that may be mineable by open pit, at B and CDEF deposits (See Figure 6).

<sup>1</sup> The company confirms all material assumptions underpinning the production target or the forecast financial information referenced on 26 March 2019, continue to apply and have not materially changed.

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Phase II drilling consisted of 30 reverse circulation (RC) holes, including ten as pre-collars to diamond drilled tails, and 45 HQ3 diamond holes for a combined total of 5,959m (inclusive of 427m mud rotary). The majority of holes were inclined at 60° and drilled towards the west (azimuth 270°).

Most of the core, and all the RC samples have now been logged. Visual assessment of lead mineralisation indicates that significant intersections have been obtained. As well as expected galena (lead sulphide) (Figures 1, 2 and 3) in mineralised intersections, significant amounts of sphalerite (zinc sulphide) were observed in the drill core (Figures 4 and 5).



Figure 1: Semi Massive Galena (Grey, Metallic) Replacement. ACD080, 32.8m. Part of an interval 25.7m to 37.9m (12.2m length) of well mineralised core – consisting of strong galena, some pyrite and minor sphalerite



Figure 2: Crystalline Galena in ACD080 32.8m (Freshly Broken Core). Part of an Interval 25.7m to 37.9m of Well Mineralised Core – Consisting of Strong Galena, Some Pyrite and Minor Sphalerite.



Figure 3: Crystalline Dark Grey Galena in AB034 56.4m (Freshly Broken Core). Part of an interval 52.1m to 59.6m interval with strong galena hosted by slump breccia and Knox Sediments

## **CDEF DEPOSIT**

Results from the Phase I drilling campaign and assays from early 2019 confirmed continuity between C, DE and F Deposits which is now considered as a single deposit (CDEF) with a strike length of 1.7km that may be minable with a single open cut (see ASX Announcement 6 May 2019).

The logging of abundant coarse galena through many of the Phase II program drill holes in the northern section of CDEF deposit is of interest.

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Analyses of 12 drill holes with significant intersections at the northern part of the CDEF deposit had not been received prior to the completion of the March 2019 MRE. Combined with the 2019 drill program infill results, it is expected that a significant portion of the current Inferred Resource at the northern part of the CDEF deposit may be convertible to Indicated Resource.

This northern section of the CDEF deposit was excluded by Pacifico's conservative approach from the March PFS as it did not include Indicated Resources.

#### ZINC MINERALISATION

Zinc mineralisation has not been considered in Project economics to date, however it was commonly observed during the Phase II program. There is an existing known Inferred Resource of zinc dominant mineralisation at the Alpha Zinc Deposit (2.34Mt of 0.5% Pb, 3.1% Zn, 29g/t Ag Inferred Resource as per ASX Announcement 7 March 2019).

The Company's technical team sees great potential for the delineation of further zinc resources to add significant value and enhance Project economics. The relatively low zinc content of the Sorby Hills lead ore could also be extractable if a zinc circuit can be justified by increasing the zinc dominant resource at Alpha Zinc Deposit.



Figure 4: Abundant Pale Brown Sphalerite and Coarse Galena Crystals (Grey) in Matrix of Sedimentary Breccia in ACD81, 61.5m. Part of an Interval 60.5m to 64.5m of Well Mineralised Core Consisting of Strong Galena and Pyrite, and Common Sphalerite.



Figure 5: Abundant Cream Coloured Sphalerite in ACD63, 76.7m. Part of an interval 75.3m to 79.1m with common sphalerite as veins and matrix fill in slump breccia

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#### **MRE POTENTIAL UPSIDE**

In parallel with advancing its mining studies Pacifico plans to conduct further drilling in 2020 to continue expanding the Indicated Resource of the B and CDEF deposits, and convert Inferred Resources at the A, H, I, Alpha and Beta deposits to Indicated Resources. Other drilling targets include extensions to the zinc dominant mineralisation at the Alpha Zinc Deposit and targets outside the defined deposits for both lead and zinc (also silver).

It is expected that the deposit size at Sorby Hills will continue to grow as extensions and other targets outside of the main defined deposits (based on both historical and Pacifico drill programs) are drilled and added to the resource base.

Compilation and assessment of the current and historical drill hole information is in progress, with an aim to provide a sound geological and mineralisation model on which to base the revised MRE. Final assay results are expected by late August, and a revised MRE will be completed in September.



Figure 6. Sorby Hills Mineralised Corridor Showing Lead-Silver Deposits with a Global MRE Totalling 30Mt @ 4.7%Pb Equivalent (3.7% Pb, 0.6% Zn and 43 g/t Ag as per ASX Announcement 7 March 2019).

*For further information or to be added to our electronic mailing list please contact:* 

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#### ABOUT PACIFICO MINERALS LIMITED

Pacifico Minerals Limited ('**Pacifico**') (ASX: PMY) is a Western Australian based development and exploration company. The company is currently focused on advancing the Sorby Hills Lead-Silver-Zinc Joint Venture project in WA. Pacifico owns a 75% interest in the Joint Venture with the remaining 25% (contributing) interest held by Henan Yuguang Gold & Lead Co. Ltd.

#### ABOUT HENAN YUGUANG GOLD AND LEAD CO LTD

Henan Yuguang Gold and Lead Co., Ltd was established in 1957 by the government of Jiyuan City which is in Henan Province in North China. In July 2002, HYG (exchange code: 600531) was listed on the Shanghai Stock Exchange (SSX). Current ownership is approximately 29.61% by Jiyuan City. HYG is the largest lead smelting company and silver producer in China and has been among the Top 500 Chinese enterprises and Top 500 China manufacturing enterprises for the last five consecutive years. The main products produced by HYG are electrolytic lead, gold, silver and copper which are all registered at LME and LBMA respectively. In 2017, HYG produced 415,100 tonnes of electrolytic lead, 110,000 tonnes of copper, 958 tonnes of silver, 7,383 kg of gold and achieved sales of about US\$2,684 million. HYG's plants are largely modern, focussed on development of industrial technology and are environmentally friendly. Its recently refurbished lead smelting plant has achieved full automation. More information can be found on the HYG website; http://www.yggf.com.cn/en/.

## COMPETENT PERSON STATEMENT AND JORC INFORMATION

The information contained in this announcement that relates to geology and exploration results is based, and fairly reflects, information compiled by Mr David Pascoe, who is a Member of the Australian Institute of Geoscientists. Mr Pascoe is a consultant to Pacifico Minerals Limited. Mr Pascoe 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 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Pascoe consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The interpretations and conclusions reached in this announcement are based on current geological theory and the best evidence available to the authors at the time of writing. It is the nature of all scientific conclusions that they are founded on an assessment of probabilities and, however high these probabilities might be, they make no claim for absolute certainty. Any economic decisions which might be taken on the basis of interpretations or conclusions contained in this announcement will therefore carry an element of risks.

## FORWARD LOOKING STATEMENTS

Certain statements in this document are or maybe "forward-looking statements" and represent Pacifico's intentions, projections, expectations or beliefs concerning among other things, future exploration activities. The projections, estimates and beliefs contained in such forward-looking statements necessarily involve known and unknown risks, uncertainties and other factors, many of which are beyond the control of Pacifico, and which may cause Pacifico's actual performance in future periods to differ materially from any express or implied estimates or projections. Nothing in this document is a promise or representation as to the future. Statements or assumptions in this document as to future matters may prove to be incorrect and differences may be material. Pacifico does not make any representation or warranty as to the accuracy of such statements or assumptions.