

Cardinal Resources Ltd.: Interim Metallurgical Update

02.02.2017 | [ABN Newswire](#)

Perth - [Cardinal Resources Ltd.](#) (ASX:CDV) (OTCMKTS:CRDNF) ("Cardinal" or "the Company") is very pleased to report an interim metallurgical update for the Namdini Project ("Namdini").

HIGHLIGHTS

- A number of conventional gold recovery improvement techniques have been identified to target overall gold recoveries >80% using a grind-flotation-regrind-CIL flowsheet
- Oxide gold recovery is now >90%
- Metallurgical scan results strongly support a conventional crush-float-fine grind-CIL flowsheet which implies low mass flotation concentrate with superior operating costs due to low volumes of concentrate to process
- Metallurgical samples representing the entire orebody are soon to be submitted for further optimisation testwork with results expected in Q2 2017

Cardinal's Technical Manager, Julian Barnes said:

"Results from the geometallurgical scan sampling programme, which is based on approximately 9,300m of diamond drill core covering the entire Namdini deposit, are being reviewed. The first set of data, tested on whole rock samples, has confirmed that the proposed conventional grind-float-regrind-cyanidation flowsheet for Namdini is suitable for the entire deposit. During the testwork, particular care was taken to ensure that all lithologies were ground to pass 80% -75 microns, in particular for the granite samples. The approach has resulted in markedly improved recovery for the granite samples compared to the results obtained in the initial Suntech Laboratory testwork in November 2016, wherein the granite average of 47% recovery for whole rock diagnostic bottle roll cyanidation leaching has now improved to an average of 72% recovery. The granite is host to approximately 30% of the Namdini gold resource and the results auger very well for the complete grind-float- regrind-CIL flowsheet wherein material increases in overall CIL gold recovery have been demonstrated, compared to the equivalent whole rock gold recoveries.

"The total sulphur analyses confirm that Namdini is a low sulphur system, with an average 1% total sulphur content, which suggests that the very efficient sulphide recoveries returned in the initial Suntech Laboratory testwork should be applicable to the entire Namdini deposit.

"The aim of the next round of optimisation testwork is to produce overall gold recoveries in excess of 80% using a variety of conventional techniques some of which include maximising sulphide, and thus gold recovery, to a flotation concentrate, use of leach enhancers, optimal grind size selection and extended leach residence times."

Cardinal's Project Manager, Bruce Lilford said:

"Representative metallurgical sample selection is underway for the entire deposit as part of the next phase of testwork. The resulting report and data due in Q2 2017, will be of a level sufficient to complete a feasibility study."

Cardinal's CEO / MD, Archie Koimtsidis said:

"This recent testwork has demonstrated very significant improvements from the first round of testwork results which was based on a single drill hole. We remain confident that further significant improvements are achievable as we continue with metallurgical testwork.

"Metallurgical optimisation will continue as the Company moves the maiden 4Moz Namdini Resource from Exploration into Development."

To view the full release including the Scan Sampling Programme, please visit:
<http://abnnewswire.net/lnk/43N5NKE3>

About Cardinal Resources Ltd:

[Cardinal Resources Ltd.](#) (ASX:CDV) (OTCMKTS:CRDNF) is a focused gold exploration and development company with its key assets located in the mineral-rich country of Ghana, West Africa. Cardinal owns and operates 2 drill rigs and has in country infrastructure which allows it to be a low cost exploration and development company. Cardinal has its operational base located within close proximity to the Bolgatanga Project in North East Ghana and has its corporate office located in Perth, Western Australia.

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Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/255218--Cardinal-Resources-Ltd.--Interim-Metallurgical-Update.html>

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