

Collerina Cobalt Ltd ASX: **CLL** Level 2, 66 Hunter Street Sydney NSW 2000 Phone: +61 2 9300 3310 Facsimile: +61 2 9221 6333 Web: www.collerinacobalt.com.au

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The Manager Companies ASX Limited 20 Bridge Street Sydney NSW 2000

(6 pages by email)

ASSAYS CONFIRM 4N (99.99%) HPA

- Assays results from the High Purity Alumina (HPA) generated from the first Solvent Extraction (SX) test run using the 'HPA First' Process have confirmed 4N (99.99%) HPA on an elemental basis.
- X-Ray Diffraction analysis has confirmed the HPA as the desired alpha (α) crystal form.
- Assay process has identified an impurity source which should be controlled in the second SX test run.

Collerina Cobalt Limited ('CLL' or 'the Company') is pleased to provide an update to the Company's strategy of fast tracking High Purity Alumina (HPA) production using the HPA First Process (refer ASX: 9 July 2018).

Confirmation of 4N (99.99%) High Purity Alumina (HPA)

On completion of the first Solvent Extraction (SX) and HPA refining run, the Company has completed a comprehensive analytical program to evaluate the process. This process included multiple independent assay laboratories using a range of assay techniques, inclusive of assays for:

- the HPA;
- the HPA precursor/s; and
- the various process flows from the SX process.

This approach allows for a comprehensive analysis of the final HPA product and of the SX process in full to identify if and where the main impurities have been introduced and/or eliminated in the process.

Using the preferred assay technique, GDMS (Glow Discharge Mass Spectrometry), the HPA assays have been confirmed as:

- 4N, or 99.99% purity, on an elemental basis; ie total impurities on an elemental basis are subtracted from 100%.
- 3N, or 99.97% purity, on an oxide basis; ie impurities are converted to oxides then subtracted from 100%.

Purity reported on an elemental basis is consistent with HPA purity disclosure by other parties, however the Company will seek to report HPA purity on a total oxide basis in future releases.

Impurities

HPA assays and SX process stream analysis has identified the key impurities as sodium (Na), gallium (Ga), iron (Fe) and magnesium (Mg). The process stream assays indicate the sodium impurities have been introduced as contamination in the HPA refining process and can be eradicated in the second SX and HPA refining run. The other impurities are inherited from the process feedstock and can be adjusted to further improve their rejection. On this basis, the Company believes that the HPA purity can be substantially improved in the second SX and HPA refining run, due to commence later in September.

Crystal Form

In addition to purity, the HPA has also been analysed by X-Ray Diffraction (XRD) which confirmed that the HPA is 100% alpha (α) crystal form, required by end-users in the production of sapphire glass and lithium-ion battery separators.

Managing Director, Rimas Kairaitis, commented; "To produce HPA at 4N purity on an elemental basis in the first test run of the new process is very pleasing, although we are targeting further improvements in purity in the next round of testwork. The thorough analysis of the final product and the process flows means the impurity levels are now well understood, and that we are well placed to improve the HPA purity in the next round of solvent extraction and HPA refining."

For further information, please contact:

Rimas Kairaitis Managing Director <u>rkairaitis@collerinacobalt.com.au</u> +61 (0) 408 414 474 Cameron Peacock Investor Relations & Business Development <u>cpeacock@collerinacobalt.com.au</u> +61 (0) 439 908 732

Competent Persons Statement (Process Development Testwork)

Information in this announcement that relates to metallurgical results is based on information compiled by or under the supervision of Mr Boyd Willis, an Independent Consultant trading as Boyd Willis Hydromet Consulting. Mr Willis is a Fellow and Chartered Professional of The Australasian Institute of Mining and Metallurgy (AusIMM). Mr Willis has sufficient experience to the activity which he is undertaking to qualify as a Competent Persons under the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Willis consents to the inclusion of the technical data in the form and context in which it appears.

About the HPA First Process

The HPA First Process is the application of the Company's proprietary licenced solvent extraction and refining technology to produce HPA from an industrial feedstock. HPA First was adopted in July 2018 as a major advance on the previous process flowsheet, which used a feedstock generated from the acid-leaching of laterite mineralisation from the Collerina Ni-Co-Sc Project, in central NSW.

The Company considers the HPA First Process a dramatically improved business case on the basis of:

- the HPA First Process delivers HPA, the dominant project revenue product, using a simplified process;
- the industrial feedstock delivers an aluminium tenor at multiples higher than the previous flowsheet;
- a far simpler process flowsheet which does not require the development of a mining operation or associated acid plant, leach vessels, filtration, neutralisation circuits or tailings facilities;
- a significant reduction in process plant equipment and vessel sizing;
- significant CapEx reductions;
- significant OpEx reductions;
- the simplification of the process flowsheet substantially de-risks the project, providing a fast-track through Definitive Feasibility Study (DFS), permitting, financing, project implementation and operational cash flow; and
- the option is retained to integrate PLS feed from the Collerina Project at a future date, to expand the revenue base into nickel, cobalt and scandium.

The modified Pre-Feasibility Study (PFS), based on the HPA First Process, is due for delivery in October 2018.

1. JORC CODE, 2012 EDITION – TABLE 1

1.1 Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. 	 Samples were taken as ~10g splits of homogonised, crystalline powder-form high purity alumina (HPA)
Drilling techniques	• Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	Not Applicable. The samples were generated from a feedstock of industrial chemicals.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	Not Applicable
Logging	 Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	Not Applicable
Sub-sampling techniques and Sample Preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material 	 Samples were presented as a homogonised, crystalline powder generated from a calcining process at +1200°C

Criteria	JORC Code explanation	Commentary
Quality of assay data and laboratory tests	 collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations 	 The purity analysis was determined by Glow Discharge Mass Spectroscopy (GDMS), completed by specialist high purity EAG laboratories in the USA. The use of GDMS was determined as the preferred method based on comparison
	 factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	 with acid digest + ICPMS determination, on the basis on contaminant uncertainty in the digest The crystal form was confirmed by Qualitative X-Ray Diffraction (QXRD), conducted by Sietronics Pty Ltd
		The Company relied on internal laboratory QA/QC checks
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	Not Applicable
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	Not Applicable
Data spacing and distribution	 Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied. 	Not Applicable
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	Not Applicable
Sample security	The measures taken to ensure sample security.	• Samples were shipped as 3 x separate shipments to protect sample security
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	Not applicable

1.2 Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	Not Applicable
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Not Applicable
Geology	Deposit type, geological setting and style of mineralisation.	Not Applicable
Drill hole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	Not Applicable
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	Not Applicable
Relationship between mineralisation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	Not Applicable
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Not Applicable
Balanced	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading	Not Applicable

Criteria	JORC Code explanation	Commentary
reporting	reporting of Exploration Results.	
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	Not Applicable
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 Further testwork is planned to refine the solvent Extraction (SX) and HPA refining process used to generate the samples