

## 22 March 2023

The Manager Market Announcements Office Level 40, Central Park 152-158 St Georges Terrace PERTH WA 6000

# GROUND PREPARATION COMPLETED - DRILL RIG MOBILISED DIAMOND DRILL TESTING OF EM CONDUCTORS TO COMMENCE AT THE PUOLALAKI PROJECT-SWEDEN

Avira Resources Limited (ASX: **AVW**) (**Avira** or the **Company**) is pleased to announce that a diamond drilling program consisting of 5 drillholes for a total of 1,075m is due to commence this week at the Company's Puolalaki Project located in northern Sweden.

## BACKGROUND

The Puolalaki Project comprises a single exploration permit (Puolalaki nr 100) centred over a synorogenic gabbro intrusion that hosts the nickel mineralisation discovered by NAN in 1998<sup>1</sup>. In addition to the Ni-Cu mineralisation at Puolalaki, the project also contains significant, high-grade gold mineralisation. The project is located in Sweden's premier Gällivare mining district which is host to Europe's largest open-cut copper mine Aitik, owned by Boliden and to LKAB's Malmberget iron-ore mine.

In February, the Company announced<sup>2</sup> the results of a fixed-loop EM and UAV-borne magnetic survey from the project which identified a number of high-priority drill targets with a mix of relatively discrete, highly conductive bodies at shallow depths (30-100m) and an additional large target at depth (400-500m).

### **DIAMOND DRILLING**

The Company has engaged the services of Finnish drilling company Northdrill OY to complete the planned diamond drilling campaign at Puolalaki. The rig and crew are scheduled to arrive onsite Wednesday this week with drilling commencing immediately and drilling operations to be carried-out in 24-hour shifts.

The drilling will be carried out using a fully enclosed, tracked-mounted drill rig and in conjunction with a dedicated cuttings collection unit. The Company is in close dialog with local landowners and stakeholders, several of which are providing logistics services to the company. The Company will carry out the drilling following Svemin's guidelines for mineral exploration in Sweden.

The drilling is expected to take 4-6 weeks to complete although will be subject to ground conditions remaining favourable; the melt period normally begins at the end of April-beginning of May and drilling will need to cease prior to this to reduce the risk of damaging the saturated ground during this period.

<sup>&</sup>lt;sup>1</sup> South Atlantic Resources Ltd (VSE:SCQ) Press Release dated April 22, 1998 "NAN Discovers Copper-Nickel-Cobalt Mineralization in Northern Sweden". North Atlantic Natural Resources AB was a Swedish subsidiary of Vancouver Stock Exchange listed company South Atlantic Resources Ltd.

<sup>&</sup>lt;sup>2</sup> Refer to ASX Announcement "Geophysical Survey Identifies Multiple Strong Conductors" dated February 14, 2023.



This initial drilling program will comprise 5 diamond drill holes totaling approximately 1,075m (refer Table 1 and Figure 1).

Target ID	Northing (TM99)	Easting (TM99)	Azi	Dip	Planned Depth (m)
T1	7431036	776517	300°	-65°	150
T2 (Upper)	7430998	776785	315°	-50°	75
T2 (Lower)	7431100	776927	270°	-50°	150
Т3	7431286	776866	75°	-60°	100
Т5	7431096	776410	090°	-60°	600

 Table 1: Planned diamond drillholes-Puolalaki Project

The drill-core will be transported to Malå for logging and sampling ahead of assaying. The ALS Global prep lab is located in Malå and expected turn-around-times for assaying are currently two-three weeks from the date of submission at the lab. The Company expects to be in a position to announce the first assay results in late May.

Subject to the results of these initial drillholes, a program of DHEM may be initiated at the conclusion of the drilling and a possible second phase of drilling would likely commence during the Swedish summer and/or autumn (June-October).



*Figure 1:* Map showing planned diamond drillhole targets (red dots) and the historic nickel intercept (navy triangle) at the Puolalaki Project, northern Sweden.



### -ENDS-

For, and on behalf of, the Board of the Company, and authorised for release.

David Deloub Managing Director Avira Resources Limited

Shareholders and other interested parties can speak to Mr Sonu Cheema if they have any queries in relation to this announcement: +618 6489 1600.

## **About Avira Resources Limited**

Avira Resources (AVW) is an ASX listed mining exploration company. In addition to the Wyloo Project tenement exploration licence applications located in the Ashburton Basin, the Company holds two tenement packages within the Paterson Range province which is host to a number of substantial gold, copper and manganese mines and deposits, including the Telfer gold- copper mine. The Avira projects are situated in the Yeneena basin sedimentary rock formation that hosts both the Nifty and Maroochydore copper deposits and the Woody Woody Manganese mine.

### **Forward-Looking Statements**

This announcement contains forward-looking statements which are identified by words such as 'may', 'could', 'believes', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this announcement, are expected to take place. Such forward-looking statements does not guarantee future performance and involve known and unknown risks, uncertainties, assumptions, and other important factors, many of which are beyond the control of the Company, the directors, and our management. We cannot and do not give any assurance that the results, performance, or achievements expressed or implied by the forward-looking statements contained in this prospectus will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements. We have no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this announcement, except where required by law. These forward-looking statements are subject to various risk factors that could cause our actual results to differ materially from the results expressed or anticipated in these statements.

### **Competent Persons Statement**

The information in this document that relates to exploration results is based on information compiled by Amanda Scott, a Competent Person who is a Fellow of the Australian Institute of Mining and Metallurgy (Membership No.990895). Amanda Scott is a full-time employee of Scott Geological AB. Amanda Scott has sufficient experience, which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which has been undertaken 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 (JORC Code). Amanda Scott consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.



# JORC CODE, 2012 EDITION - TABLE 1

#### Section 1 sampling techniques and data

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

Criteria	JORC Code explanation	Commentary		
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. 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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> </ul>	Sampling to be conducted following drilling program completion.		
	• In cases where 'industry standard' work has been done this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.			
Drilling techniques	<ul> <li>Drill type (e.g. core, reverse circulation, open- hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. 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).</li> </ul>	<ul> <li>The diamond drilling will be carried out using a fully enclosed, tracked-mounted drill rig and in conjunction with a dedicated cuttings collection unit.</li> <li>This initial drilling program will comprise 5 diamond drill holes totaling approximately 1,075m (refer Table 1 and Figure 1).</li> </ul>		
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	• No drilling has been reported.		
Logging	<ul> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	• No drilling has been reported		



Criteria	JORC Code explanation	Commentary
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	No drilling has been reported
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	No drilling has been reported
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	No drilling has been reported
Location of data points	<ul> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	• The data was collected in SWEREF TM99 coordinate system.



Criteria	JORC Code explanation	Commentary
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>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.</li> <li>Whether sample compositing has been applied.</li> </ul>	• No drilling has been reported
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul>	• The survey profiles were aligned to cross the majority of the known structures, stratigraphy and mineralisation.
Sample security	• The measures taken to ensure sample security.	• No drilling has been reported
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	No drilling has been reported

### 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	<ul> <li>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.</li> <li>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.</li> </ul>	The Puolalaki Project is located in the Gällivare mining district of Sweden and approximately 50m SE of the town of Gällivare. The project comprises a single, granted exploration Permit (Puolalaki nr 100) owned 50% by Scott Geological AB and 50% by Outlier Geoscience Pty Ltd. The exploration permit is currently in good standing with no known impediments to exploration.	
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	The bulk of the historic exploration at the project was completed by Swedish mining company LKAB during the 1980's through to the early 1990s. During its tenure, LKAB completed diamond drilling, surface geophysics, trenching, BOT drilling, soil sampling and trial mining/metallurgical studies. In 1998, Canadian exploration company NAN completed diamond drilling at the project. In 2003, Swedish exploration company Geoforum AB completed C- horizon soil sampling.	

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Criteria	JORC Code explanation	Commentary
Criteria Geology	JORC Code explanation  • Deposit type, geological setting and style of mineralisation.	Commentary         The Puolalaki Project is located within         Palaeoproterozoic rocks of the Fennoscandian Shield.         The Precambrian bedrock in northern Sweden includes         a ~2·8Ga Archaean granitoid-gneiss basement, which         is unconformably overlain by greenstones, porphyries         and sedimentary successions aged 2.2-1.9Ga and with         1.9-1.8Ga intrusions.         The Puolalaki Project is centred on a package of         Paleoproterozoic metavolcanic and metasedimentary         rocks which were deposited, deformed and         metamorphosed during the Svecofennian orogeny at         c. 1.9 Ga.         A crustal-scale, ductile-brittle deformation zone         (Nautanen Deformation Zone) transects the area and         hosts numerous occurrences of copper ±gold ±iron         mineralisation.         The bedrock in the project area is dominated by Lina         granite, felsic-intermediate-mafic volcanics,         sedimentary gneisses and mafic and intermediate         intrusives. Dolerite and pegmatite dykes are common.         The early Svecokarelian (ca. 1.96-1.87Ga) mafic-         ultramafic intrusives largely comprise amphibolitised
		The early Svecokarelian (ca. 1.96-1.87Ga) mafic- ultramafic intrusives largely comprise amphibolitised gabbro, pyroxenite and peridotite-harzburgite. At Puolalaki, the intrusives have been partially serpentinised. Felsic-intermediate intrusives of the same suite largely comprise inhomogeneous, medium- grained granodiorite-diorite-tonalite lithologies. The Svecofennian (ca. 1.96-1.86Ga) supracrustal rocks (Kiruna-Arvidsjaur Group) in the Puolalaki area comprise gneissic metasediments and felsic-
Drill hole Information	<ul> <li>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:</li> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> <li>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.</li> </ul>	No drilling has been reported

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Criteria	JORC Code explanation	Commentary
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>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 aggregation should be shown in detail</li> </ul>	• No drilling has been reported
	<ul> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear</li> </ul>	• No drilling has been reported
Diagrams	<ul> <li>statement to this effect (e.g. 'down hole length, true width not known').</li> <li>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.</li> </ul>	• Appropriate maps and sections are included in the main body of the report.
Balanced reporting	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 reporting of Exploration Results.	All results received to date have been reported.
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.	• All relevant historical exploration data and activities have been reported previously.
Further work	<ul> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	• Diamond drilling to test the EM targets at Puolalaki.