

Aurania Receives Corsica Study from IHC Mining B.V. of Holland

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Toronto, November 5, 2024 - [Aurania Resources Ltd.](#) (TSXV: ARU) (OTCQB: AUIAF) (FSE: 20Q) ("Aurania" or the "Company") reports that IHC Mining Advisory Services ("IMAS") of IHC Mining B.V. were commissioned by the Company to prepare a conceptual desktop study identifying a potential extraction and recovery methodology for the Albo-Nonza black beach sands in Corsica (see related press releases dated October 3, 2024 and November 4, 2024) followed by a potential processing solution for extraction of the heavy minerals located in the beach sand. These sands are believed to be derived from the longshore drift of waste material from the historic Canari Mine. The 73-page report focused on the identification of a potential solution that could be practical and technically possible, taking into account the marine environment and a preliminary processing flow sheet focused on the extraction of the heavy minerals containing nickel (Ni) and iron (Fe). The proposed equipment for both processes has been defined with an estimated combined capital of 13 MM Euro and an estimated operational cost of 2.82 Euro/t. The IMAS study focused on the beach material only and did not include any potential additional material offshore of Nonza and Albo Beaches as described in the press release dated November 4, 2024.

Many critical assumptions were made in this study, and these will be better constrained by a forthcoming environmental study when sonic drilling of the beaches is planned. It is not possible at this point in time to identify a compliant mineral resource. These minerals of interest are accumulated in the sand fraction of the beach deposits of Nonza and Albo and can be extracted using simple magnetic methods. The beach is 40% sand*, with the remaining 60% consisting of pebbles that are, for the purpose of this preliminary study, not considered to have potential economic value. Initial analyses determined that 31.7% of Nonza beach sand is magnetic, and a magnetic concentrate of black beach sand at Nonza yielded 40.1% nickel.

The present-day thickness of the Nonza and Albo beach deposits was estimated by comparison of recent LiDAR topographic and bathymetric survey data of the beach areas with a reconstructed pre-depositional survey that was derived from historical aerial photography and mapping. Wireframes were constructed from both historic and recent survey data sets and the present-day thickness of the beach deposits was estimated by determining the vertical thickness between the wireframes (Figures 1 and 2).

Figure 1: Estimated beach sediment thickness (in metres), Nonza.

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Figure 2: Estimated beach sediment thickness (in metres), Albo.

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IMAS proposed two different scenarios for recovery of the heavy minerals. The first one is a backhoe mounted on a barge, with a screening plant on board. The second is a floating suction and cutter-head dredge on floating pontoons (like that shown in Figure 3). The dredge is expected to have higher capacity and require less maintenance than the barge-mounted excavator and is regarded by the Company as the favoured proposal.

Figure 3: A cutter head suction dredge moored in the channel behind the Rick Rule Conference venue, (Boca Raton, Florida) in July 2024 that Aurania attended. Note that these dredges are used for both civil purposes to clean canals and harbours and for mining alluvials. It operates with a minimum of noise and disturbance and is ideal for clearing channels in proximity to hotels and housing developments.

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The cutter suction dredger excavates panels perpendicular to the coastline up to a maximum dredging depth of 14m. Proposed dredging depths were estimated using the calculated thickness of the beach sands and limitations of the equipment (Figures 4 and 5).

Figure 4: Proposed dredging depth (in metres), Nonza.

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Figure 5: Proposed dredging depth (in metres), Albo.

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The cutter head of the dredger is equipped with grizzly bars (cage) to prevent large rocks from entering the suction pipe of the dredger as they can block the pump or discharge pipeline. Sand and pebbles pass through the dredge pump and are pumped to a beach-based primary screening & slurrification plant via a floating pipeline that is up to 1000 metres long.

This conceptual study produced a potential process flow diagram for the proposed recovery of awaruite and magnetite using the cutter suction dredger and magnetic separation (Figure 6). At the primary screening & slurrification plant the dredging slurry passes a grizzly and double deck vibrating screen where oversized (>6mm) pebbles are removed and the sands fraction (<6mm) reports to a slurrification bin and subsequent magnetic separation. The pebbles and non-magnetic sand are re-distributed to restore the original beach.

Additional processing and metallurgical studies to refine the process are underway at SGS Laboratories (Lakefield).

Figure 6: Potential flowsheet for the proposed recovery of awaruite and magnetite from the conceptual study.

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In this conceptual study IMAS has calculated the Cutter Suction Dredge Scenario to have a total potential capital cost ("CAPEX") of \$7,830,581 for the dredging equipment, with the estimated potential CAPEX for the processing plant an additional \$5,225,920.

The estimated potential Operating Expenditure ("OPEX") calculated in the conceptual study for the recovery of the heavy minerals (dredging and screening for size) is presented in Table 1 with details of the potential OPEX for magnetic separation of awaruite and magnetite presented in Table 2.

Table 1: Estimated potential OPEX for recovery of heavy minerals.

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Table 2: Estimated potential OPEX for metallurgical plant (magnetite and awaruite recovery).

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IMAS has worked independently of SGS Labs who are currently working with 130 kilos of magnetic sand collected from Nonza Beach to assess the best way of obtaining 1.) a potentially saleable magnetite-awaruite concentrate, and also 2.) exploiting the significant density contrast between the two minerals*, an awaruite concentrate with a separate magnetite concentrate. A mixed magnetite-awaruite concentrate could be saleable for nickel matte production which may present a more profitable and marketable option. SGS is also assessing the need for the currently proposed grinding of the <6mm magnetite concentrate in the proposed circuit.

The proposed extraction activities would be halted each year during the tourist season and the beach pebbles, and the non-magnetic sand would be returned to the beach which would be recontoured after extraction at the end of each season.

*Specific gravities and particle size analysis from P. Bernier, J-B Guidi and M. E. Bottcher, "Coastal progradation and very early diagenesis of ultramafic sands as a result of rubble discharge from asbestos excavations (northern Corsica, western Mediterranean)" published in Marine Geology, volume 144, 1997.

Qualified Persons:

The geological information contained in this news release and the IMAS report has been verified and approved by Aurania's VP Exploration, Mr. Jean-Paul Pallier, MSc. Mr. Pallier is a designated EurGeol by the European Federation of Geologists and a Qualified Person as defined by National Instrument 43-101, Standards of Disclosure for Mineral Projects of the Canadian Securities Administrators.

About Aurania

Aurania is a mineral exploration company engaged in the identification, evaluation, acquisition, and exploration of mineral property interests, with a focus on precious metals and copper in South America. Its flagship asset, The Lost Cities - Cutucú Project, is located in the Jurassic Metallogenic Belt in the eastern foothills of the Andes mountain range of southeastern Ecuador.

Information on Aurania and technical reports are available at www.aurania.com and www.sedarplus.ca, as well as on Facebook at <https://www.facebook.com/auranialtd/>, Twitter at <https://twitter.com/auranialtd>, and LinkedIn at <https://www.linkedin.com/company/aurania-resources-ltd->.

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