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MURCHISON  
MINERALS



## Murchison Minerals Ltd. (TSXV: MUR, OTCQB: MURMF): Discovering Energy Metals to Power the Future

As countries accelerate their efforts to reduce greenhouse gas emissions, clean energy technologies are becoming one of the fastest-growing segments of the economy. Some of the main inputs in these new technologies are critical metals like Copper, Cobalt, Nickel, and Zinc. To meet this rapidly expanding demand for the future supply of energy metals, committed and expedited investment in exploration, mine development, and production is essential, especially located in stable jurisdictions.

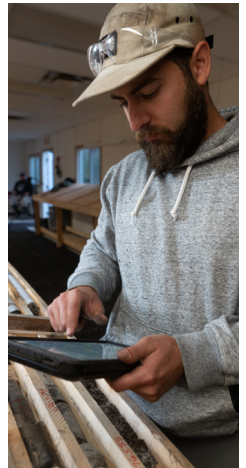
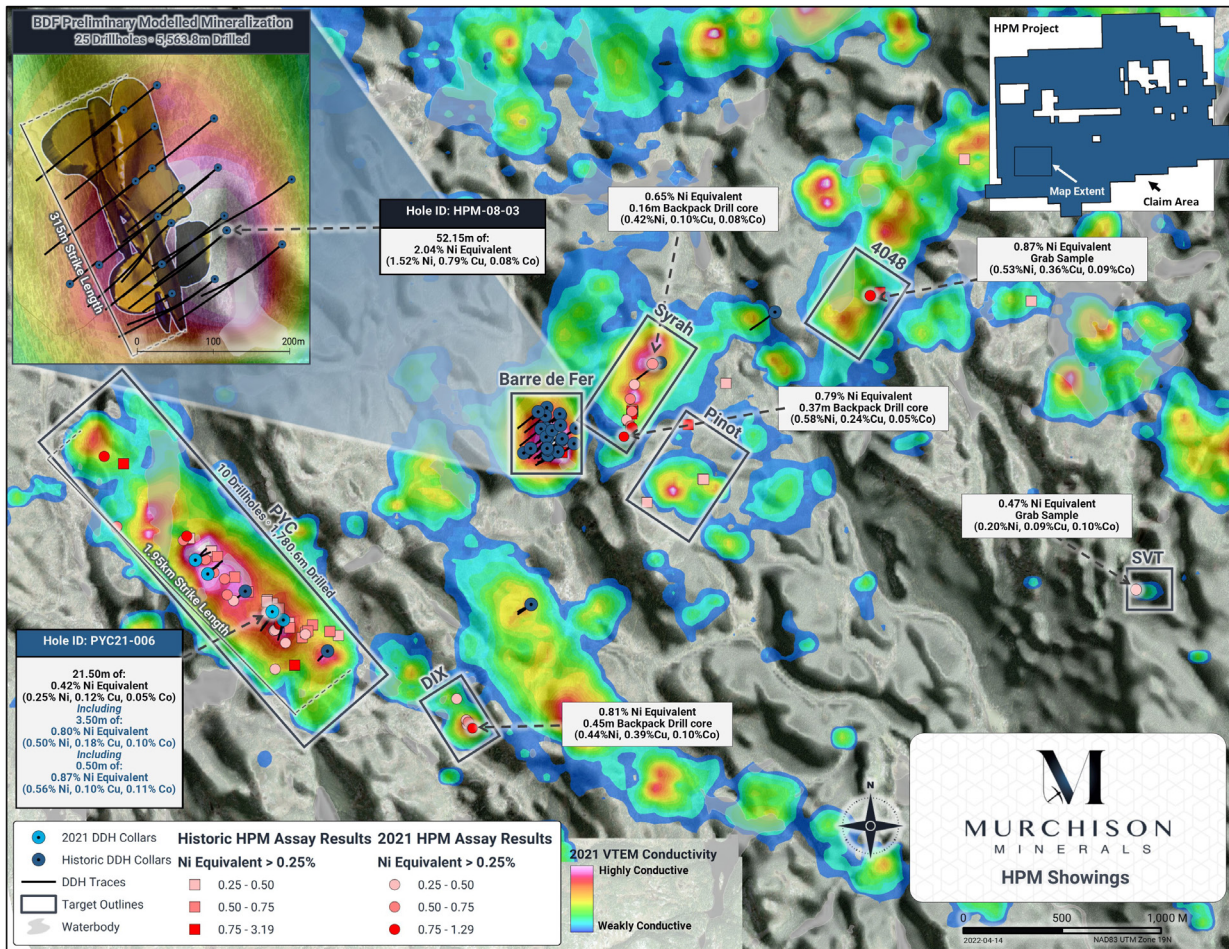
Electric vehicles, (EVs) are expected to be “the growth market for nickel miners”. Nickel consumption in EV battery materials is expected to soar 64% between 2021 and 2025, research firm Wood Mackenzie said.

**Murchison Minerals Ltd. (TSXV: MUR, OTCQB: MURMF)** is following a plan for discovering and building resources for the “New Economy” through Ni-Cu-Co and

high-grade Zn projects in Canada’s best mining jurisdictions. Murchison is operating in the provinces of Québec and Saskatchewan, based on those provinces’ rich variety of metal deposits, as well as the positive fiscal and operational environment for mineral exploration and development.

### HPM Property

Murchison is now primarily focused on unlocking the nickel-copper-cobalt at the Haut-Plateau de la Manicouagan (HPM) property, located 60 km east of the Manicouagan crater in eastern Québec, acquired in 2019. The project area is adjacent to the prolific iron mining areas of Québec and Labrador. There is excellent local infrastructure with an existing and maintained rail line within eight km of the project site, direct access to two deep water ports, the Hart-Jaune hydroelectric station is approximately 30 km from



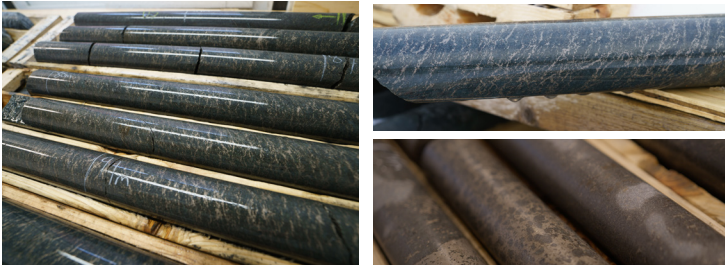
Historic HPM Assay Results

the site, and an all-season road is to the west of the site - Québec Route 389. The project area is currently accessed only by helicopter; however, creating road access is being evaluated.

The 100% - owned HPM property lies within the highly prospective geology of the Grenville Province's Allochthonous Belt and is host to numerous Ni-Cu-Co showings associated with mafic to ultramafic intrusions. The HPM project continues to show tremendous promise with its numerous gossanous nickel-copper-cobalt-bearing outcrops spatially linked to historical airborne EM anomalies.

The Barre de Fer (BDF) occurrence has been identified by 25 diamond drill holes (5,564 m) completed in 2001 and 2008 that returned up to 1.52% Ni, 0.79% Cu, and 0.08% Co over 52.15 metres.

The BDF Zone is one of multiple Ni-Cu-Co prospects on the property. The BDF Zone outcrops on surface, based on the modelling, has a strike length of 315 m, and is composed of multiple stacked lenses over a maximum 150-m-wide zone. Individual lenses have a maximum thickness of 28 m. The modelled mineralization extends to a vertical depth of 295 m. Extensive mineralization has also been intersected outside the current model, up to a vertical depth of 440 m. The BDF Zone remains undrilled and unconstrained along strike and at depth. Modelling indicates the setting, style, and high-grade characteristics of the BDF Zone are favourable for advancing a strategy to expand and delineate the BDF Zone and surrounding prospective areas during the 2022 summer drill program. Murchison is advancing a drilling strategy to expand and delineate mineralization at the Barre de Fer Zone with a three-pronged approach:



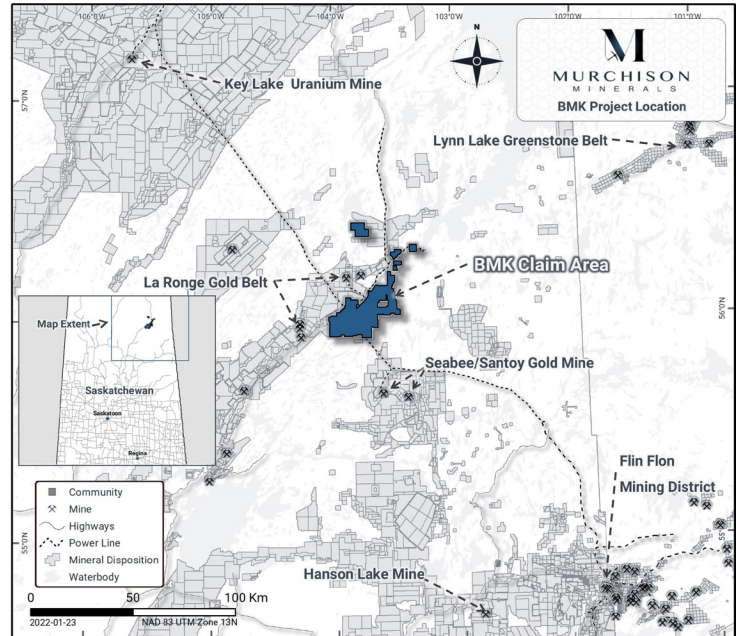
- Targeting open areas to define and expand the footprint of the Barre de Fer Zone
- Delineate the BDF Zone with infill drilling
- Drilling holes within areas of the currently defined preliminary model in order to better characterize current grade domains

The Syrah Prospect is situated over a 600-metre-long conductive anomaly lying 300 metres to the NE of the BDF Zone. Prospecting work completed in 2021 shows Syrah has a similar geochemical signature to the BDF Zone. One drill hole (HPM-08-14) was completed in 2008 but failed to properly test the target. Modern geophysics was completed in 2021 and, interpreted with maxwell plates, will allow Syrah to be properly drill tested in 2022.



The 2022 Regional Exploration program has commenced. This included an expanded VTEM survey – covering the remaining 85% of the underexplored 576-km<sup>2</sup> HPM property.

Preliminary results from the VTEM survey have detected a significant number of new prospective geophysical anomalies. As a result, the Company has staked an additional 72 km<sup>2</sup> of claims contiguous to the currently defined HPM property; HPM's property is now 648 km<sup>2</sup> in area. An extensive prospecting program to follow up on the previously defined and the newly located airborne geophysical anomalies will be carried out. Previous prospecting programs were of short duration but proved to be highly effective at defining new locations of nickel-bearing sulphide mineralization using the simple but effective “Beep Mat” tool to locate sulphides and a backpack drill to sample. The Company is planning at least 7,500 m of diamond drilling, mostly at BDF.



Brabant-McKenzie Project – Saskatchewan, Canada

## Brabant-McKenzie Property

The Brabant-McKenzie project is located 175 kilometres northeast of La Ronge, Saskatchewan, and approximately three kilometres from the community of Brabant Lake. The area is accessed year-round via provincial Highway 102 and is serviced by grid power. The project consists of one mining lease that hosts the Brabant-McKenzie VMS deposit, and additional mineral claims totalling 629 square-kilometres, which cover approximately 57 kilometres of strike length over favourable geological horizons, multiple known mineralized showings and identified geophysical conductors, and the potential for gold occurrences. The Brabant-McKenzie VMS deposit with 2.1 MT @ 10% Zn<sub>Eq</sub> (Indicated) and 7.7 MT @ 6.3% Zn<sub>Eq</sub> (Inferred) remains open for expansion.

During winter 2022 a comprehensive desktop study on results to date will commence in order to systematically optimize future drill programs. This will include expanding the high-grade domains and testing along strike and down dip from current deposit extents, and continuing exploration drilling at the Main Lake and Betty targets.

## Investment Perspective

Junior mining companies such as Murchison Minerals play a significant role in the discovery of resources of Copper, Cobalt, Nickel, and Zinc, metals of the quickly-evolving, clean-energy revolution; commodities expected to grow in demand and increase in price. The current period of price weakness is seen as favourable for the accumulation of a position for growth.

Murchison's projects are in locations and jurisdictions that regard mining favourably, and have solid regulatory systems, with regulations that are well-established. The geological environment is well-understood by management. Well-developed relations with communities provide a stable base for future development. These factors increase the likelihood that the discoveries made can eventually become mines.

Drill targets at HPM are abundant giving numerous opportunities for additional discovery. Follow-up work is expected to be encouraging.

An initial Mineral Resource estimate for Barre de Fer may be available following the planned drill program; giving substance to the BDF Zone and providing further upside for the shares.

Murchison is fully funded having completed a non-brokered private placement for aggregate gross proceeds of CAD\$5,353,589. The proceeds will be directed towards drilling at the Company's HPM nickel-copper-cobalt property in Eastern Québec, working capital, and administrative expenses. Significant support was received from strategic investor Mr. Michael Gentile and Murchison's director and largest shareholder Mr. Donald K. Johnson who participated in the private placement maintaining their current ownership positions and showing their strong support for the Company's prospects.



## Article written by: Stephen Mlot, P.Eng.

Stephen has been an investor in mining companies for more than 40 years and has more than 45 years mineral-industry experience, including 25 years of Management and Board service with junior mining companies. He is experienced in the full life cycle of mining projects, from grass-roots exploration, through resource building, financial evaluation, construction and development, operations, and closure. He is a Qualified Person for NI 43-101 reporting for a wide variety of commodities and is skilled at mining project valuations at all stages.

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Compensation for this article came from our monthly fees. CHF Capital Markets Inc. and partners Ottavio Cavalcanti and Cathy Hume own shares of MUR.

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