

# Sama Resources Quebec Completed a 1,494 line-km HELITEM2 Survey at the Lac Brule Nickel-Copper Project outlining several high conductivity zones.

22.03.2022 | [The Newswire](#)

Sama Resource Inc. ("Sama" or the "Company") (TSXV:SME) | (OTC:SAMMF) is pleased to report that Sama Resources Québec Inc. ("SRQ") a fully owned subsidiary of the Company has announced the completion and interpretation of a HELITEM2 electromagnetic and magnetic helicopter geophysical survey of 1,494 line-kilometres (line-km) at the new Lac Brulé nickel-copper property in the Province of Québec, Canada (Figure 1).

As a follow-up on the new gossan discovered in May 2021 (see Press Release 2021-06-16)\*1, SRQ commissioned Xcalibur Multiphysics (MPH) Canada Inc. for a HELITEM2 electromagnetic survey supplemented by a high-sensitivity cesium magnetometer. One block of claims (390 claims) was flown between December 5 and December 14, 2021. The survey coverage consisted of 1,374 km of traverse lines flown with a spacing of 200 and 100 metres ("m") and 119 km of tie lines with a 2000 m spacing.

Figures 2 to 5 show Xcalibur's final compilation outlining several high conductivity-thickness-product ("CTP") areas grading 5 to 6 on the Conductivity Grade scale (Table1). Highest Conductivity Grade and CTP, outlined by the late off-time channel/gates (Figures 2 & 5), are located next to the discovered gossan. Figure 6 shows the rooted EM response down to 600 m from surface. Detailed Interpretation and targets modeling will be performed by M. Joel Simard, P. Geol./Geoph based in St-Donat, Quebec province, Canada.

\*1(Gossans are highly ferruginous rock which is the product of the oxidation by weathering and leaching of a sulfide body: Elsevier Mineral Exploration 2013)

"While we are fully committed at exploring and developing our Ivorian Samapleu Ni-Cu-PGM assets with our partner Ivanhoe Electric, Sama is demonstrating its ability at finding new highly prospective grounds worldwide in totally virgin territories." said Marc-Antoine Audet, Ph.D, P.Geol and CEO of [Sama Resources Inc.](#) Dr. Audet is continuing by saying "SRQ's 100% owned Lac Brulé project is only 5 hours driving north of Montreal, Québec Province, which greatly facilitate our upcoming explorations programs"

No historical prospecting or ground exploration had been reported from the Lac Brulé area prior to SRQ.

The past-producing Renzi nickel-copper mine is the closest mining activity with historical information available. The Renzi mine is located 48 km east-southeast of the Lac Brulé property. The Company is targeting possible accumulations of Ni and Cu mineralisation at Lac Brulé that could be of similar nature to that at the Renzy mine, Voisey Bay Ni-Cu mine and at other well-known Ni-Cu deposits in Canada and worldwide.

## Geophysical HELITEM2 electromagnetic Program

The HELITEM2 system is composed of a 40 m cable to which is attached the transmitter loop. The receiver platform and the receiver coil are located at the centre of the 35 m diameter transmitter loop approximately 0.1 m above the centre of the transmitter plane. The real time navigation GPS antenna is on the tail boom of the helicopter. The barometric altimeter, radar altimeter, laser altimeter, video camera and data recorder are all installed in the helicopter. GPS antennae are attached to the transmitter loop to give positional information and transmitter orientation.

The survey used a 7.5 Hertz ("Hz") one half cycle of the HELITEM2 system is made up of a square pulse

(on-time) of approximately thirty-four milliseconds in duration followed by approximately thirty-four milliseconds of off-time before the pulse is repeated with the opposite polarity. After acquisition the measured data are windowed into twenty-five ranges called "gates". Gate widths increase as time after turn-off increases because as the energy from the transmitter decays a wider sample must be taken to get a valid average. The position of the first off-time gate is selected after examining several flights of data and is as close to the transmitter turn off as possible. The power of the pulse causes eddy currents in the system after the turn off and the first off-time gate cannot start until these have died away. The earliest data has had less time to penetrate the subsurface and so contains information from the near surface. Detailed technical information on the survey is available on Sama's website.

Xcalibur MPH selected electromagnetic ("EM") anomalies automatically using proprietary software from both X and Z components using the fourth off-time gate and a threshold of 100 nT/s. These automatically generated anomalies were then examined in profile form for each line against the X & Z EM responses, decay information, magnetic responses, altimeter readings and flight path videos removing those not considered valid and adding additional anomalies missed by the threshold. For each anomaly the conductor type was interpreted and assigned to each anomaly. After reviewing all anomalies, the following parameters were associated with each anomaly using the data for the fourth off-time gate and where applicable: conductivity-thickness-product (CTP) (Table 1), amplitude of EM response, last off-time channel with an anomalous response, time constant, apparent depth and dip.

Table 1: Xcalibur's MPH (proprietary) EM Anomaly characterisation (Conductor Grade and CTP)

(Fourth off-time gate and a threshold of 100 nT/s)

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Figure 1: SRQ's Lac Brulé project is located 148 km West-Northwest of Mont-Laurier and 290 km Northwest of Montreal. The project area is located 5 hours driving north of Montreal. SRQ owns a second block of claims (Lac Brennan) overlying an isolated gravity high in prolongation of the "Renzi shear zone". The old Renzy Ni-Cu mine operated from 1969 to 1972 selling nickel and copper concentrate to Falconbridge in Sudbury, Ontario.

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Figure 2: Apparent Conductivity: late off-time channel/gates showing several distinct high conductivity (CTP) areas. The components X and Z responses of the strong conductor (Conductor Grade: 5 and 6, see Table 1) located next to the surface gossan is also shown.

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Figure 3: Apparent Conductivity: early off-time channel/gates. The gossan location is shown with a star.

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Figure 4: Total Magnetic Intensity for the Lac Brulé project. The interpreted trace of amphibolite units is shown.

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Figure 5: EM Conductivity together with Conductor Classification defining two main sectors for follow-up: Gossan Zone and the North Zone.

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Figure 6: Differential conductivity: 600m depth slice.

#### 2022 Exploration Program

SRQ will continue surface exploration at the Lac Brulé and Lac Brennan properties. Exploration works will include geological mapping and sampling, ground geophysical survey aiming at drilling priority targets by the fall of 2022. An existing vast network of forestry roads and bridges will greatly facilitate access for all our exploration works.

Readers are invited to view the updated Corporate Presentation showing exploration progress at all our properties : [https://samaresources.com/i/pdf/Sama\\_Corporate\\_Presentation.pdf](https://samaresources.com/i/pdf/Sama_Corporate_Presentation.pdf)

The technical information in this release has been reviewed and approved by Dr. Marc-Antoine Audet, Ph.D geology, P.Geol and President and CEO of Sama, and a 'qualified person', as defined by National Instrument 43-101 Standards of Disclosure for Mineral Projects.

#### ABOUT SAMA RESOURCES INC.

Sama is a Canadian-based mineral exploration and development company with projects in West Africa and now in Canada.

In Côte d'Ivoire only, Sama, has a strategic partnership to develop the Samapleu-Yepleu nickel-copper-palladium project with Ivanhoe Electric (previously HPX) of which mining entrepreneur Robert Friedland is a significant stakeholder. For more information about Sama, please visit Sama's website at <http://www.samaresources.com>.

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