

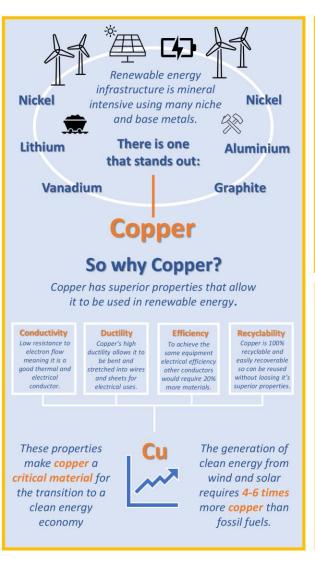
TERTIARY MINERALS PLC

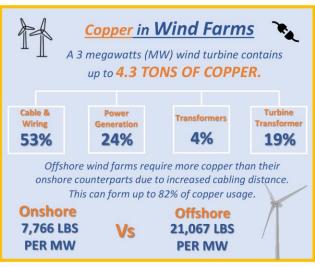
PROJECT FOCUS MUSHIMA NORTH COPPER PROJECT

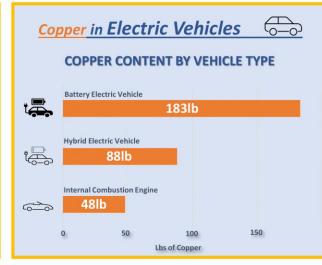
June 2023

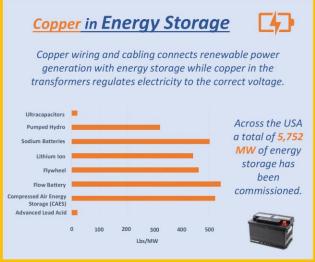
Copper - The clean energy transition metal

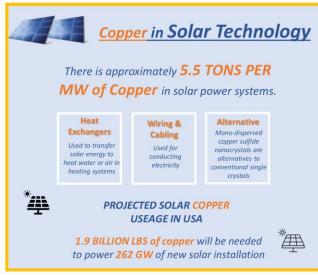






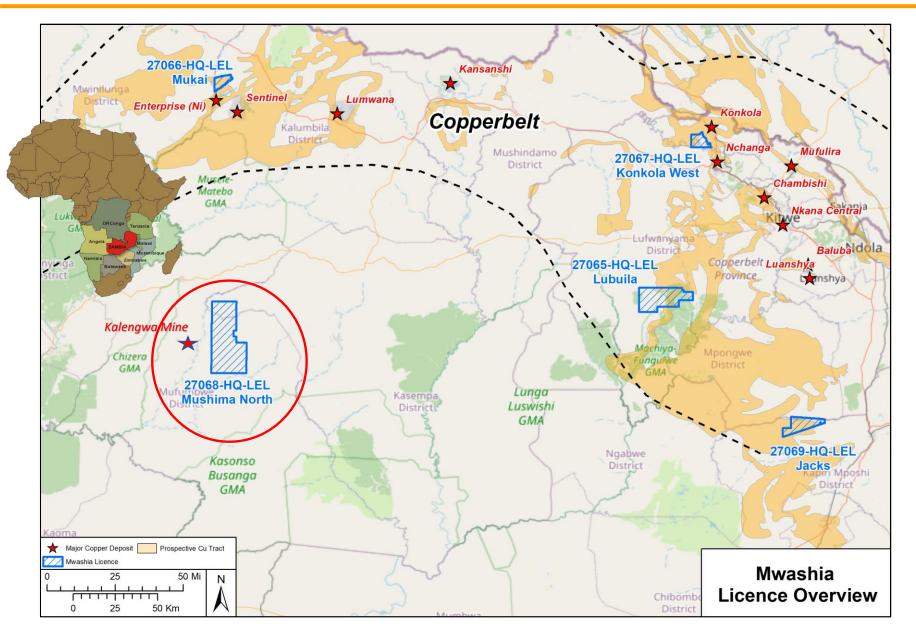






Mushima North Project - Location

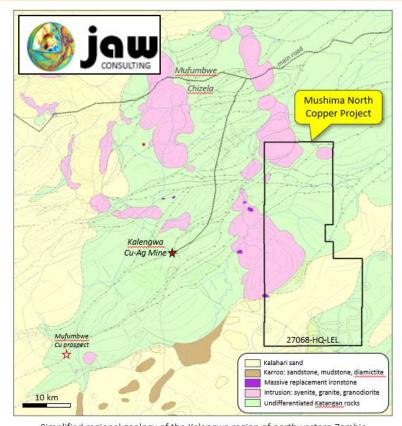




Mushima North Project - Summary



- Copper is the No.1 metal needed for the clean energy transition.
- Mushima North Project is located just to the east of the Kalengwa Mine, Zambia's highest grade copper mine (premining reserve 600,000 tons grading 16% copper).
- Included in Tertiary's **Data Sharing & Technical Cooperation Agreement** with **First Quantum Minerals** ("FQM"). Extensive project data now provided by FQM.
- FQM data merged with extensive historical data sets.
- Detailed Interpretation and Targeting Report now completed by JAW Consulting.
- Targets include:
 - Copper soil anomalies & electromagnetic anomalies prospective for traditional copper belt style mineralisation in reduced facies ore shales.
 - Gravity anomalies associated with anomalous copper in soils and recently assayed drill core - indicative of Iron-Oxide-Copper-Gold ("IOCG" style mineralisation).
- Environmental Project Brief approved, awaiting forest permit.
- Follow-up exploration planned for summer and autumn 2023.



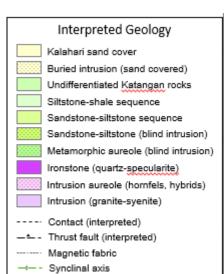
Simplified regional geology of the Kalengwa region of northwestern Zambia.

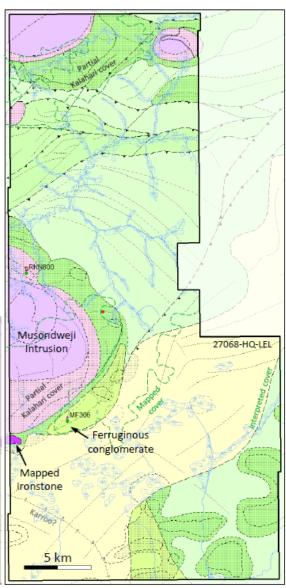


Mushima North Project - Geology



- The geology of the Mushima North property is interpreted from regional mapping by Roan Consolidated Mines ("RCM") in the late-1960s and early-1970s and more recent interpretations of airborne geophysical data.
- Structural framework compiled by BHP Billiton in 2012 (map opposite).
- The property is largely underlain by a series of strongly deformed, late-Proterozoic, metasedimentary rocks of the Katanga Supergroup which are regionally intruded by a variety of syn- to post-tectonic igneous bodies correlated with the regionally extensive Hook Granite suite (e.g. Musondweji intrusion) of early Paleozoic age (~520 million years).
- The margins of the intrusive bodies are reported to include hornfelsed and brecciated metasediments associated with intense red-rock alteration and the sporadic development of massive bodies of quartzspecularite (± magnetite) ironstone. The latter are locally associated with Cu-Au mineralisation immediately west of the property.
- The area has low topographic relief and its southern sector is partly covered by unconsolidated Kalahari sand.





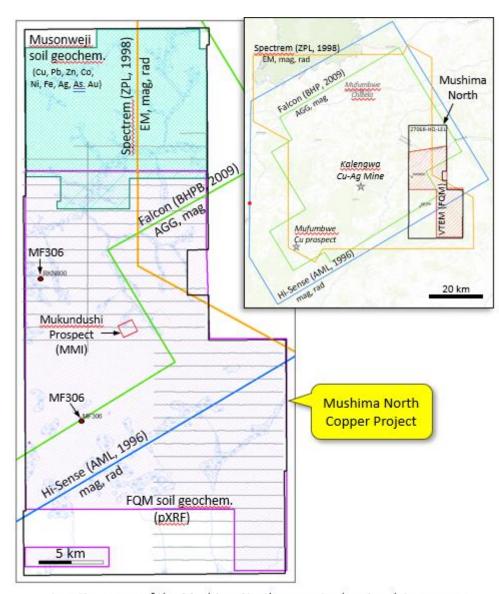
Mushima North Project - Past Exploration



Historical work focused around the small, high-grade Kalengwa copper-silver mine (4 million tons @ 5.2% Cu, 40 g/t Ag produced), located approximately 20 km to the west of the license, and which operated from 1968 to 1982.

Various exploration campaigns in the surrounding area included parts of Mushima North:

- Roan Consolidated Mines (1970s): Regional geological mapping, copper soil geochemistry and two diamond drill holes (MF306 and RKN800).
- African Minerals Limited (c. mid-1990s): Airborne magnetic-radiometric survey with regional geological interpretation and detailed regolith mapping of the Mukundushi prospect.
- Zamanglo Prospecting Limited (late-1990s): Airborne SPECTREM EM, magnetic and radiometric survey, Musonweji soil geochemical survey (Cu, Pb, Zn, Co, Ni, Fe, Ag, As, Au) and detailed Mukundushi MMI geochemical survey.
- BHP Billiton (late-2000s): Airborne Falcon gravity gradiometry (AGG) and magnetic survey.
- First Quantum Minerals (c. mid to late-2010s): Airborne
 VTEM magnetic survey and regional pXRF soil geochemical survey.

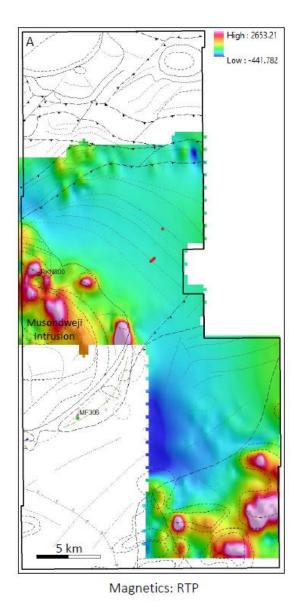


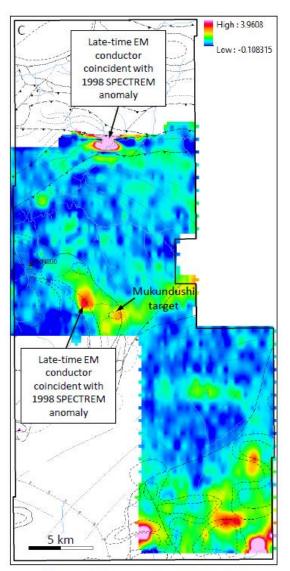
Location maps of the Mushima North property showing data sources.

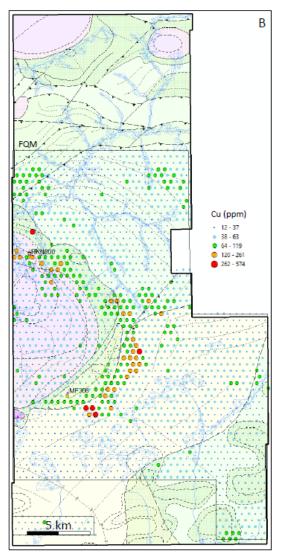
Mushima North Project - FQM Data Sets



High quality data sets provided by FQM under the Data Sharing and Technical Cooperation Agreement.







FQM geochemical data: Copper in soils.

Late-time: Z-component B-field [35]

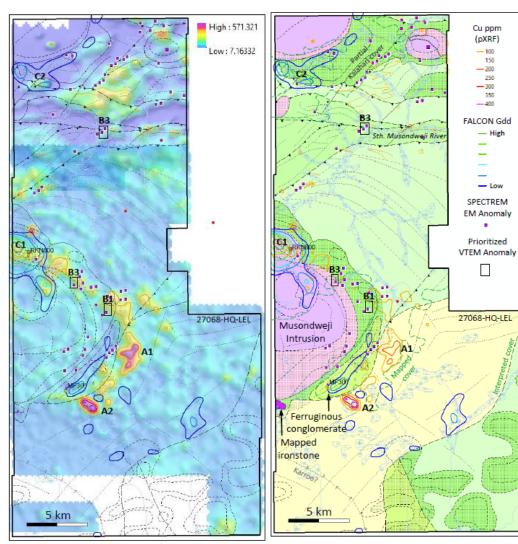
Mushima North Project - Targeting Report



JAW Consulting LLC completed historic data compilation and targeting report.

Several key targets generated From Targeting Report (see opposite), in order of priority:

- Target C1 (Multiple data sources) Prominent gravity
 high association with soil anomaly and wide low-grade
 intersection of copper mineralisation recently
 announced from resampling 1970s drill hole RKN800.
 This target, and a similar feature in the northwest of
 the property [C2], are potential IOCG systems
 previously targeted by BHP Billiton (2012).
- Target A1 (FQM data) 1.7km long pXRF copper soil anomaly defined on 500m sample spacing. Enhanced by coincident arsenic and zinc anomalies.
- Target B3 (FQM Data and SPECTREM data) Discrete strong EM conductor in favourable structural setting.
- Target A2 (FQM data). Small high magnitude copper anomaly [A2].
- Targets B1 and B2 (FQM data) Electromagnetic targets coincident with intrusive rocks or their margins.



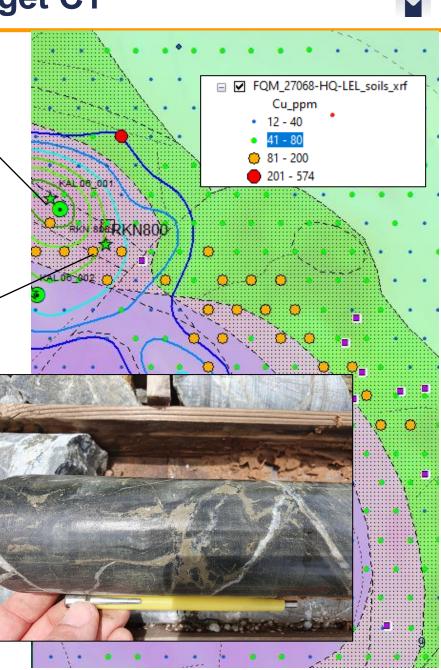
Copper in soil with potential targets.

Interpreted geology with potential targets.

Mushima North Project - Target C1



- FALCON gravity anomaly defined as drill target by BHP Billiton in 2000s (shown as contours) but not tested. Due to hematite and/or magnetite mineralisation +/- copper-gold?
- Broadly coincident with a high-amplitude magnetic response interpreted to reflect the marginal zone of an underlying intrusion.
- FQM copper soil anomaly coincident with gravity anomaly.
- 1970s drill hole RKN800 on margin of the gravity anomaly recently resampled:
 - 33m grading 0.24% copper from 122m-155m downhole.
 - ➤ Hole ended in mineralisation grading 0.19% copper from 154-155m (EOH).
 - Copper mineralisation associated with pyrite and calcite veining (photo).
- Target is for iron-oxide-copper-gold ("IOCG") style mineralisation that includes a number of major copper-gold deposits globally.
- Planned exploration includes detailed magnetic and gravity surveys and infill soil sampling.



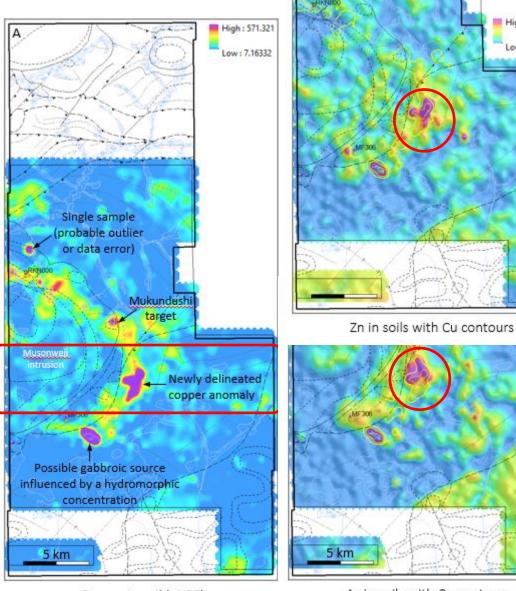
Mushima North Project - Target A1 & A2



High: 150,863

Low: 1.9183

- Target A1 is a high priority copper soil anomaly defined by pXRF analysis of 500m spaced soil samples.
- Contains copper values in excess of 100 ppm over a strike length of 3km, with a peak 350 ppm copper.
- Elements associated with this newly identified copper anomaly include arsenic and zinc.
- Target A2 is a strong discrete copper in soil anomaly but is elevated in nickel, chromium and vanadium which can suggest a gabbroic source and a common cause of "false" copper anomalies in the region.
- Follow up work will include detailed infill soil sampling and geochemical evaluation prior to drill testing.



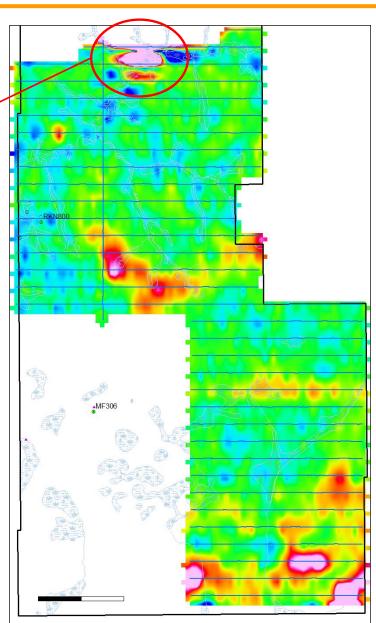
Copper in soil (pXRF).

As in soils with Cu contours

Mushima North Project - Target B3



- A strong discrete electromagnetic conductor defined in the FQM electromagnetic survey data.
- Lies in interpreted major thrust zone.
- Coincident with 1990 SPECTREM anomaly.
- Follow up exploration to include mapping and field evaluation and ground geophysics.



TYM: Latest Company Presentation



