



# **MOTHER LODE**

## **CHAMBER OF MINES OF EASTERN BRITISH COLUMBIA**

A non-profit bureau of information providing authentic, reliable data to the General public and the mining industry of Eastern British Columbia

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## **NEWSLETTER**

Note: The views of contributors to this newsletter do not necessarily reflect the views of the Chamber

***Chamber of Mines of Eastern BC Hours  
Monday, Wednesday and Friday from 10am – 3pm***

***We would like to welcome Chris Anderson of Ximen Mining Corp.  
to our Board of Directors.***



***Christopher R. Anderson - President, CEO, & Director of Ximen Mining Corp.***

Mr. Anderson brings over 30 years of entrepreneurial experience with an astute emphasis on strategic planning, communications, and creative marketing. He has been instrumental in facilitating tens of millions of dollars of financing for both public and private enterprises. With a specific focus on mining over the last decade, Mr. Anderson has successfully navigated the waters of one of the toughest bear markets in mining history.

September 21<sup>st</sup>, 2021

## West Mining Commences Drilling On The Kena Copper Zone, Kena Property, B.C.

West Mining Corp. has now commenced the 2021 diamond drilling program on the Kena Copper Zone area of its 100% owned Kena gold and copper project in southeastern British Columbia. A total of 4000 metres of diamond drilling is planned. The over 8500 hectare Kena Project, consists of the Kena, Daylight and Athabasca Properties which trend along a 20 kilometre long favourable mineralized belt.

“The Company is very pleased to see the drill crew mobilized and work commenced on the copper zone at the Kena Property,” stated Nicholas Houghton, President and CEO.

The Kena Copper Zone is identified by a significant copper geochemical anomaly associated with a zone of high chargeability, lying within mafic volcanic and subvolcanic diorites of the Rossland Group Elise Formation. The soil anomaly has dimensions of 2.5 kilometres in length by an average of 450 metres in width as outlined by the 300 ppm copper contour. Within the anomaly there are numerous soil samples assaying between 1,000 and 5,000 ppm copper. A total of nine wide spaced historic drill holes were put in between 1981 and 2010 by five different exploration companies to test the copper target. Broad zones of low-grade copper mineralization (0.1 to 0.5% copper) were intersected by this historic drilling. For example, drill hole 10CK-01 intersected 0.17% Cu equivalent over its entire 396.24 metre length (Dandy, 2011; BC ARIS Report 31924).

In 2021, three fences, including deep diamond drill holes are proposed for the central core of the Kena Copper Zone, along with 400 meter step out holes to the north and south. The 2021 Kena Copper Zone diamond drilling is fully funded.

<https://www.westminingcorp.ca/>





August 24<sup>th</sup>, 2021

## Rokmaster Provides Exploration Update

Rokmaster Resources Corp. has expanded its surface exploration program, in addition to the ongoing drilling and targeting of Revel Ridge Main (RRMZ) and Yellowjacket Zones (RRYZ).

Highlights of exploration activity over the past 90 days include:

- The collection of approximately 850 soil samples collected along 6 km of strike of the RRMZ and RRYZ. Interpretation of the soil geochemical data indicates the mineralized trends have a strike length which exceeds 8 km. Rokmaster is conducting additional soil geochemical surveys over portions of the highly prospective A&E trend located 1.8 km to the northeast of the RRMZ (*Soil Geochemistry Compilation Maps – [South Extension](#) and [North Extension](#)*).
- See the Soil Geochemistry Compilation Map on Rokmaster's website).
- Completing 33 surface drillholes totaling approximately 7,800 m of NQ core, testing the northwestern strike extension of the RRMZ, RRYZ, and A&E zones on surface over strike lengths exceeding 3 km ([Longitudinal Section Graphic](#)). The results of DDH's RR21-41 to RR-21-47 have previously been released ([Rokmaster News Release, July 16, 2021](#)). Results from additional drillholes are pending.
- Rock sampling and prospecting along the A&E trend, located 1.8 km to the northeast of the RRMZ, resulting in new discoveries of massive to semi-massive polymetallic sulphides forming near the footwall of the Badshot limestone. These sulphide rich zones and the structure which hosts them have been traced over a strike distance of at least 525 m. The initial drill testing of the A&E Zone will be completed by the end of August 2021 .
- To assess the regional scale potential of mineral occurrences and stratigraphy distant to the better-known mineralized trends, Rokmaster collected a series of 62 stream sediment samples over an area of 144 square km. This work has also been done in conjunction with regional prospecting and rock sampling programs. These surveys are designed to evaluate, at a reconnaissance scale, the mineral potential for gold and base metal occurrences in the Cambrian and older rocks which host numerous gold and base metal occurrences within the district.
- Completion of a Lidar survey flown over an area of 26 square km. The Lidar survey will provide Rokmaster's engineers and geoscientists with a precision digital elevation model to facilitate advanced engineering and mine planning studies.
- Initiation of a detailed environmental audit compiled by an independent third party. The audit establishes water quality, fish, and wildlife habitat baselines and begins to map terrestrial

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ecosystems. Preliminary results of the data of these surveys identifies no significant environmental or ecosystem impacts from Rokmaster's 2020 and 2021 exploration programs.

- Ongoing metallurgical studies of RRMZ gold enhanced sulphides utilizing the expertise of three metallurgical labs. Rokmaster's metallurgical programs utilize gold liberation through pressure oxidation of gold rich sulphide phases. The initial metallurgical studies have been successful in enhancing the grade of gold in sulphide rich concentrates, and in decreasing the volume of concentrate to be treated by pressure oxidation. Preliminary data of pressure oxidation of the Revel Ridge gold enriched sulphides suggests gold recoveries exceeding 90%. Fine tuning of the initial metallurgical processes will potentially result in even higher gold recoveries.
- Recent engagement of P&E Mining Consultants Ltd. to develop an updated 43-101 compliant resource for Revel Ridge. The resource update will integrate the results of approximately 73 surface and underground drillholes, totaling more than 24,000 of NQ drilling. Rokmaster anticipates that the updated 43-101 resource will be completed by Q4 2021. Even prior to initiating this resource update, Revel Ridge remains one of British Columbia's largest undeveloped gold rich polymetallic deposits with 4.2 Mt/ containing 1.089 million ounces of 8.07 g/t AuEq (RRMZ M&I) and 4.56 Mt containing 0.961 million ounces of 6.55 g/t AuEq (RRMZ Inf., Putrich et al., 2020, and filed on Sedar). Rokmaster anticipates that the strongly positive results obtained from the 2020 and 2021 underground and surface drill programs will result in a significantly enhanced Revel Ridge resource.

John Mirko, President and CEO of Rokmaster commented, "In the past 12 months the Rokmaster team has undertaken and completed an impressive scope of drilling, geological, geochemical and metallurgical programs at Revel Ridge. This includes the successful completion of 24,000 m of drilling and related exploration activities executed in the middle of the COVID-19 pandemic. The positive outcomes of these programs has enabled Rokmaster well positioned to develop a revised and upgraded 43-101 resource, to continue both surface and underground drill programs, and to further advance the Revel Ridge deposit to a production decision."

<https://rokmaster.com/>







## Apex Resources Files Updated Resource Estimate On Its Jersey-Emerald Tungsten Project

Apex Resources Inc. has filed the technical report for the updated Tungsten Resource Estimate on its Jersey Emerald Project as per its September 10, 2021 news release.

The study is a total deposit resource that included the Emerald, East Emerald, Invincible, Dodger, East Dodger and Dodger 4200 tungsten zones. The results of the study confirm a significant tungsten (WO<sub>3</sub>) resource on the property with associated gold and molybdenum. The report shows an Indicated Resource of 1,472,803 tonnes at a grade of 0.173% WO<sub>3</sub>, 0.050g/t Au and 0.021% Mo. There is an additional Inferred Resource of 5,128,045 tonnes at a grade of 0.227% WO<sub>3</sub>, 0.081g/t Au and 0.026% Mo.

The report concludes that the mineral resource estimate warrants further exploration to upgrade the classification of known zones. The QP recommends a two phase \$1.3M re-assay and drilling program to infill the WO<sub>3</sub> mineralized zones, potentially add to the associated Mo and Au zones and to better define the remaining Pb-Zn mineralization.

The updated Technical Report was prepared by Sue Bird, P.Eng., a Geological Engineer with Moose Mountain Technical Services. Sue Bird is a Qualified Person as defined in National Instrument 43--101 Standards of Disclosure for Mineral Projects (NI 43--101) and has reviewed and approved the contents of this news release.

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### **About Tungsten:**

Tungsten is an extremely hard and durable metal with the highest melting point of all elements. Because of these qualities it is vital to a broad range of commercial and military applications. A recent U.S. Geological Survey assessment ranked tungsten near the top of its list of mineral commodities that are most at risk to supply disruptions. The EU's 2020 list of Critical Raw Materials gave tungsten the highest score of all metals in terms of economic importance. There are currently no North American mines producing tungsten. Instead, the U.S. and Canada depend on recycling and imports to meet their tungsten needs.

According to the U.S. Geological Survey annual report, China has a near monopoly on the mining of tungsten and accounts for more than 80% of global production. Recently China's tungsten production has been dropping and the tungsten price has been rising. Because of possible supply disruptions tungsten is on the Critical Minerals Lists for the USA, Canada and the EU.

<http://www.apxresources.com/s/Home.asp>

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**Chamber report by Brad Gretchev:**

***The Chamber of Mines will be holding a Fall Banquet at the Hume Hotel on Friday November 12<sup>th</sup>, 2021 from 6pm – 9pm.***

***Tickets are \$55.00 and can be purchased from the Chamber or at the door. Please call Brad Gretchev at 250-352-5242 to reserve tickets.***

***As the banquet will be held at the Hume Hotel the mandatory vaccine passport will be required to attend. Thank you.***

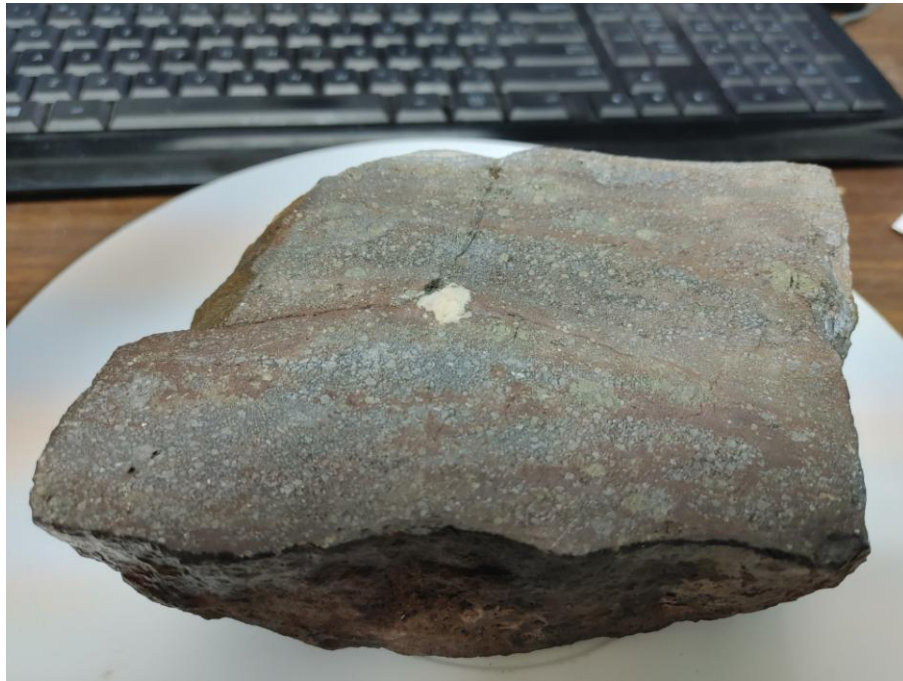
It was a busy summer at the Chamber with lots of tourists, companies, rockhounds and aspiring prospectors coming through to do research and have their samples identified.

We had the Grade 11 Earth Science class from LVR High School visit the Chamber for a presentation on the rock cycle, mineral identification, local history and the importance of minerals in our everyday lives. We are also looking forward to our upcoming fieldtrip with the class to teach them how to gold pan.

President David Johnston and Curator Brad Gretchev visited the Balfour Christian Camp to showcase specimens from local historical mines in the area.



Thanks to John Mirko of Rokmaster Resources for donating a specimen of silver, lead and zinc from their Revel Ridge project in Revelstoke.



Thanks to Kim Paynter for donating specimens of Kimberlite from Fort Alacorn, Saskatchewan.





# 2021 Mineral South Conference

November 2 - November 4



To Register

[Download the Minerals South 2021 Package](#) for event, registration and sponsorship information.

## Background

The Minerals South conference is organized by the East Kootenay Chamber of Mines (EKCM), a non-profit organization actively promoting resource extraction interests in southeastern British Columbia. More than 100 people from B.C.'s mining and natural resource sector gather to network, exchange ideas and technologies, and share knowledge.

The Minerals South conference is not only a chance to showcase industry innovation and cutting-edge technologies being developed and implemented in the region, but it also offers professional development, business and employment opportunities for individuals and companies in the area. "Whether you are new to the mining resource industry or have been in the business for a long time, this conference offers everyone – suppliers, workers, post-secondary students, employers – a chance to gain new knowledge and connections and keep up-to-date on the latest regulations. It is a much anticipated opportunity to stimulate exploration in the East Kootenay. In addition to technical presentations on projects in the area, Minerals South offers mining companies and suppliers a common venue to discuss solutions to mining and exploration-related issues."

Other Minerals South highlights include a short course, "two" open to the public talks, two-full days of technical talks, a trade show, displays of paleontology fossils, drill core and field specimens of rock and ore, a school program attended by elementary students and a delegate field trip.

The East Kootenay Chamber of Mines organizes and hosts the Minerals South Conference and Tradeshow every two years, alternating with the Chamber of Mines of Eastern BC. It is its primary fundraiser. To register, become a sponsor, or find out more visit

[www.ekcm.org](http://www.ekcm.org)

**GRIZZLY DISCOVERIES INC.**



September 15<sup>th</sup>, 2021

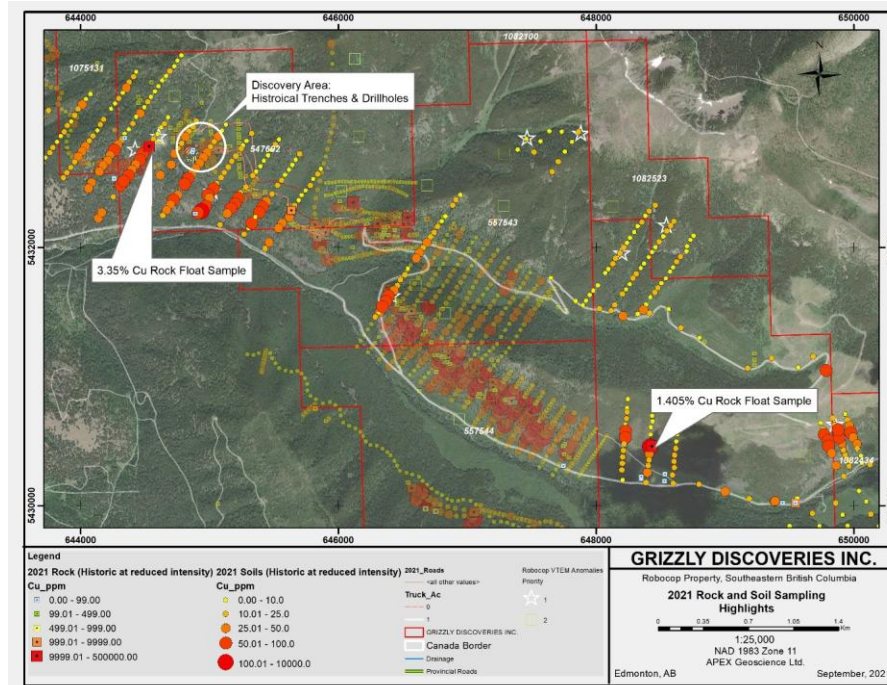
**GRIZZLY Samples 3.35% Copper At Its Robocop Battery Metals Project, Southeastern British Columbia, Canada**

Grizzly Discoveries Inc. is pleased to announce that phase 1 sampling results targeting existing anomaly areas and new high-priority conductivity anomalies in the search for Cobalt (Co), Copper (Cu) and Silver (Ag) mineralization that have been received at its Robocop Property.

The rock grab samples delivered results with up to 3.35% copper (Cu) and 196 ppm Co (Figure 1 below). The Company has isolated multiple high-priority geophysical targets that are supported by anomalous copper-cobalt geochemistry along a 7 km trend (Figures 1 & 2 below). The anomalous trend includes multiple geophysical anomalies that measure 200 to 600 m strike length. The Robocop Property is 100% owned by Grizzly and is easily road accessible in Southeast British Columbia (the “Property”), near the hamlets of Grasmere and Roosville.

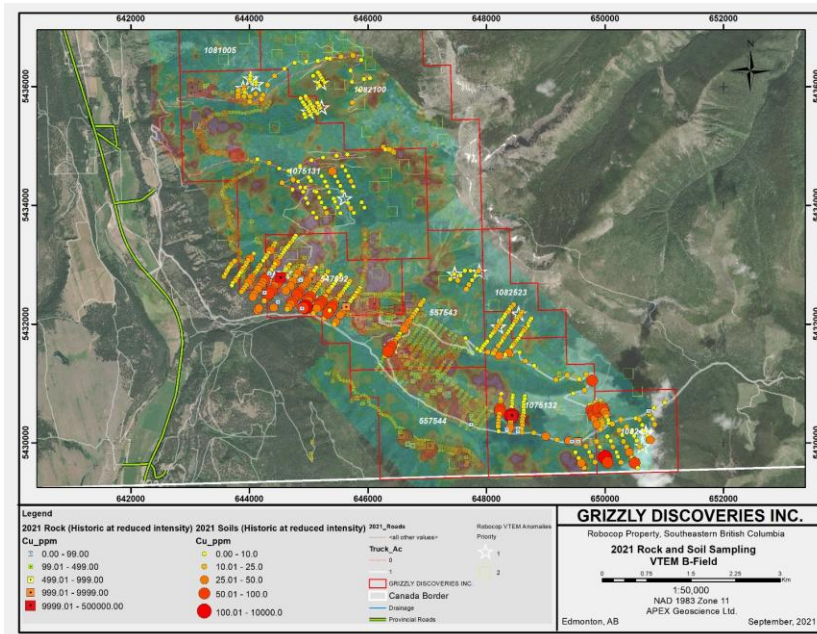
*Brian Testo, CEO of Grizzly commented, “It is great to find a high grade sample of battery metals associated with a new anomaly at the Robocop. The Property has significant potential for new copper-cobalt discoveries. The team is looking forward to drilling this new discovery and other promising anomalies, this year.”*


Fig 1. 2021 and historical Cu in rocks & soils (bright samples are 2021 results).



The follow-up Phase 1 ground geochemical survey was designed to extend known anomalous areas and targets, and test a number of high and secondary priority geophysical anomalies identified by the 2021 VTEM survey in the vicinity of the “Discovery Area” (See Figures 1 & 2) and across the property. The Discovery Area has provided historical anomalous trench and core intersections of up to **0.134% Co**, **1.19% Cu** and **33.8 grams per tonne (g/t) Ag** over **1.23 m**. Over the course of the three-week program a total of 530 soil samples and 16 rock samples were collected from across the property (see Figure 2 below). Outcrop of the targeted favourable horizon is poor.

Fig 2. Property wide rock and Soil sample results over conductivity from 2021 (bright samples are 2021 results).



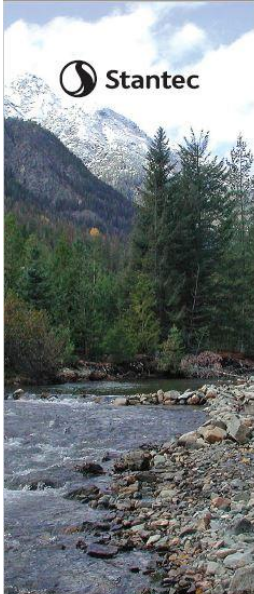


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A rock grab sample of malachite-bearing arkosic sandstone float material (See Figure 3 below) on a south facing slope approximately 340 m west of the Discovery area returned 3.35% Cu and 196 ppm Co and represents a new discovery of copper and cobalt. Coincident Cu and Co in soils in the area indicates that Roo Formation sandstones, host to Cu- and Co-bearing mineralization, likely continue well west of the known trenched and drilled mineralization at the Discovery area (Figure 1). The rock grab sample was collected immediately down slope from the up-hill high priority conductive anomaly 15-3. VTEM conductive anomalies 14-3 and 16-3 in the immediate vicinity also are coincident with significantly anomalous Cu and Co in soils (Figure 1). None of these VTEM conductive anomalies have been drill tested. The historical drilling to date is comprised of 15 holes in three locations over a strike length of 1.1 km from the Discovery area to the southeast towards a tributary that flows into Phillipps Creek without testing any of the VTEM anomalies. The 2021 soil sampling program has extended the known length of anomalous Cu and Co to over 7 km of strike length up Phillipps Creek to the southeast (Figures 1 and 2).

A number of additional priority 1 and 2 VTEM anomalies to the southeast including 13-3, 58-3, 57-3, 55-3, 60-3, 45-3, 78-2 and 8-2 are spatially co-incident with Cu and Co in soil anomalies, both in historical sampling and 2021 sampling. None of these anomalies nor the anomalous soils associated with them have been drill tested. The 2021 soil sampling program has identified that the Phillipps Creek Cu and Co soil anomaly can be traced continuously from the Discovery area up Phillipps Creek for close to 7 km (Figures 1 and 2). A 2021 rock grab sample from altered arkosic sandstone returned 1.4% Cu approximately 4.3 km east of the Discovery area up Phillipps Creek (Figures 1 and 2).

A Notice of Work land use permit application for drilling a number of the VTEM anomalies from the Discovery area up Phillipps Creek has been submitted to Front Counter BC's Cranbrook Office with approval and anticipated drill testing sometime in fall, 2021. Funding permitting, ground geophysical TDEM or IP surveys will be used as a Phase 2 program to test and firm up targets for drilling in fall 2021. Additional soil and rock sampling may also be conducted as part of the Phase 2 work.



*Fig 3. Strong malachite staining on metasiltstone-sandstone float found during the field program in June 2021.*



The property is hosted within a similar geological setting to the Idaho Cobalt-Copper belt where conductivity (EM) and magnetic surveying techniques along with soil and rock geochemistry have been used previously to successfully guide drilling of prospective targets and assist in making new metal discoveries.

### HIGHLIGHTS FOR THE ROBOCOP PROPERTY

- The Robocop Project is comprised of 9,053 acres (3,663 ha) in five mineral claims that are all road accessible, just off Provincial Highway 93 in southeast B.C.
- Initial surface trenching in the late 1980's to early 1990's yielded up to **06% Co** and **1.93% Cu** over **6 metres (m)** in one trench, and in a separate trench up to **0.146% Co**, **1.8% Cu** and **5.3 grams per tonne (g/t) Ag** over **5 m** in sediment-hosted sulphide mineralization within middle Proterozoic Purcell Group rocks (Thomson, 1990).
- A total of 15 drill holes in the area between 1990 and 2008 have yielded several intersections of near surface Co-Cu-Ag mineralization with grades of up to **134% Co**, **1.19% Cu** and **33.8 g/t Ag** over **1.23 m** core length in hole R-1990-5 and **0.14% Co**, **0.9% Cu** and **2.7 g/t Ag** over **3.1 m** core length in hole R-1990-6 (Thomson, 1990), along with an intersection of **0.18% Co**, **0.28% Cu** and **4.1 g/t Ag** over **1 m** core length in hole R-2008-02 (Pighin, 2009).
- All but one of the historical drillholes tested a single target in an area about 500 m by 350 m. The Property is approximately 10 km in length and 3.5 km in width and contains numerous untested anomalous soil +/- rock geochemical targets.
- Sediment hosted Co-Cu-Ag mineralization is similar in style, age and host rocks to mineralization at Jervois Mining Ltd.'s Idaho Cobalt project and Hecla's Revett Formation hosted mineralization near Troy, Montana.

The Property has yielded significant historical cobalt, copper and silver results and presents an opportunity to discover battery and electrification metals as the world shifts to electric vehicles, sustainable practices and greener alternatives. The macroeconomic outlook for battery metals such as Co and Cu remains strong with the ongoing shift to electric vehicles. It is estimated that the battery sector accounts for approximately 57% of current Co demand; this is expected to grow over the next five years to 72% and will require an additional 100,000 tonnes/annum of Cobalt to meet demand.<sup>[1]</sup>

<https://www.grizzlydiscoveries.com/>



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