

Capability Statement

Mineral Exploration

Mineral exploration is essential for identifying and developing new, economically concentrated mineral deposits to sustain material demands. Exploration activities aim to narrow down the searching area for identifying new deposits by undertaking various surveys. Data is accumulated so as to improve the geological knowledge and analysis of an area, thus improving selection of areas with highest potential and reducing risk. Exploration is undertaken through systematic processes from concept through fieldwork, to discovery and further target delineation.

Prospecting and Research

Conduct desktop studies to identify the target commodity, location and area of interest.
Conduct a preliminary assessment of the identified site.



Target Assessment

Collate, analyse and interpret fieldwork data to understand the geology and identify potential mineral deposits for further exploration.



Early Exploration

Develop an early exploration plan based on the desktop study finding and undertake early fieldwork to gather information to determine further exploration feasibility.



Advanced Exploration

Create a drilling and sampling plan to collect core samples to prove mineralisation and to delineate and define the deposit.



Prospecting and Research

> Defining the Concept

In order to initiate a project, the client must define which commodity is being targeted and in which geo-political jurisdiction they want to operate. Based on this, the geologists can identify an area of interest to upon which to base investigations.

> Desktop Evaluation

To identify areas with potential mineral deposits, detailed desktop-based research is undertaken. Existing information including geological reports, academic research, existing maps, satellite imagery, and historical mining data are collated and analysed. Data may frequently be obtained based on a regional scale. Factors such as geological formations, geochemical areas, historical mining activities, and remote sensing data are considered to pinpoint potential target areas.

> Target Area Reconnaissance

Once a potential target area has been identified a preliminary assessment of the site is undertaken. A site visit by the geologist will aim to verify that the correct geological terrain and features for the targeted mineral deposit type occur within the selected area. This is based on surface features and outcrops identified by traversing and assessing the site.



Early Exploration

> Exploration Planning

Based on the desktop studies and reconnaissance, an early exploration plan is developed. This outlines the methodologies, techniques, and resources required for fieldwork. The associated budgets are developed, in line with the capabilities and expectations of the client. Standard operating procedures are drafted for implementation for the exploration campaigns.

> Fieldwork

Early exploration fieldwork is undertaken to gather data to refine potential target areas and lead to discovery. The goal is to evaluate the geological characteristics of the area, such as rock types, structures, and mineralisation indicators, to determine whether further exploration is warranted. Techniques employed typically include broader geophysical surveying, geological mapping, soil sampling, rock sampling, and geochemical analysis. Geological features and anomalies are studied on-site to understand the potential mineralisation.

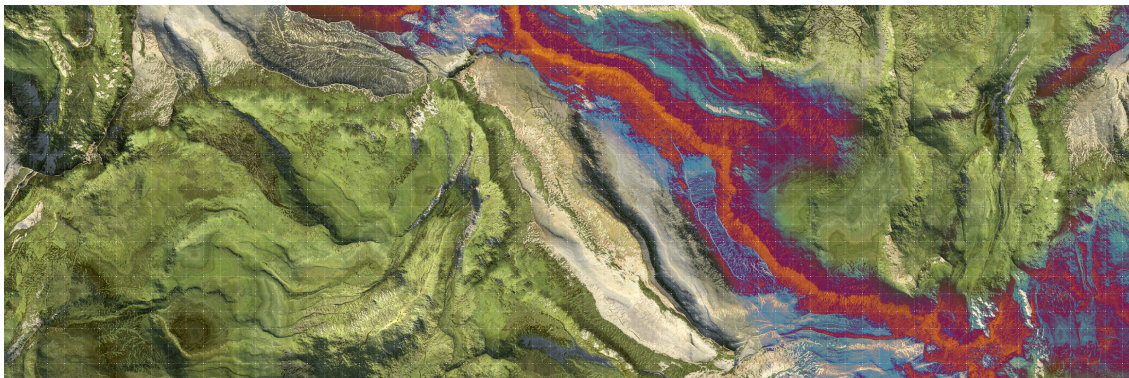
Target Assessment

› Data Analysis and Interpretation

Data collected during fieldwork is collated, analysed, and interpreted to understand the geological characteristics of the target areas. Geochemical and geophysical data are processed to identify anomalies indicative of mineral deposits. Advanced software packages and GIS systems are frequently utilised to create a database of generated information and to easily analyse the data.

› Target Identification

Based on the analysis of field data, target areas are refined to prioritise locations with the highest potential for mineralisation. Further exploration efforts may be focused on these refined targets.



Advanced Exploration

› Advanced Exploration Planning

Based on the results of the initial exploration, a drilling and sampling plan is created. The type of drilling technique most suited to the style of deposit, required information, and budget is identified. A layout of the drilling plan is developed, typically occurring in timed phases for which planning is refined based on preceding knowledge.

› Drilling and Sampling

Drilling is conducted on a focused target area to collect core samples from beneath the surface, allowing for a more detailed analysis of mineralisation. The aim is to prove mineralisation. Samples obtained from drilling are analysed for mineral content, grade, and other parameters.

› Data Analysis and Deposit Delineation

The drilling and sample analyses data are integrated into a database and analysed utilising advanced software packages. Informed analysis is undertaken by the geological team to assess the deposit in terms of its formation history and geological characteristics including mineral content. The deposit is delineated and defined, and can be further refined with additional drilling and exploration information.

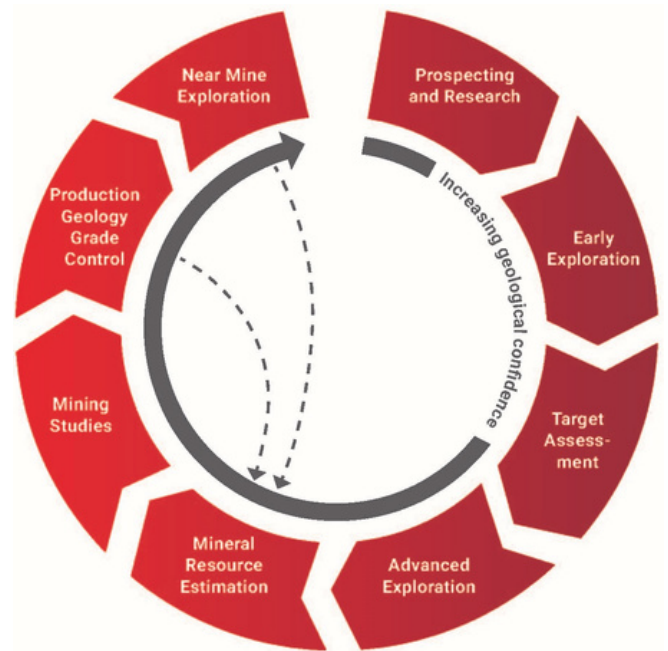
Our Value Proposition

Throughout the exploration process, VBKOM continuously evaluates new data and findings, adapting strategies to maximise the chances of discovering economically viable mineral deposits. We have experience in primary, secondary and placer type deposits across various geological and political terrains, working closely within the team and with trusted associates to execute all aspects of mineral exploration.

We offer complete multi-disciplinary economic studies for blue-chip mining houses, junior miners and financial institutions across the full range of mineral commodities. Due to VBKOM's diverse pool of expertise, we can offer our clients specialised skills within a one-stop-shop culture. Our geological, engineering, risk, and project management capabilities as well as simulation and decision support expertise, make us an ideal partner to the mining, petrochemical, and construction industries.

Our focus on long-term client relationships combined with our technical skills ensures that our clients can fully optimise their value chain.

At VBKOM the quality of our work is guided by a simple philosophy – our success is driven only by the success of our clients and the achievement of our professionals. By using cutting-edge technology and the most advanced computer modelling systems on the market our technical expertise comes unrivalled. Our capacity and continuity have earned us the trust of some of the world's most prestigious mineral resource companies. By staying true to our core values; by utilising our vast project-specific experience and qualifications; along with applying proven world-class methodologies and processes the VBKOM team is dynamic, flexible and innovative with a track record standing as solid proof of our competitive edge in our field.



VBKOM has been successful in providing solutions of an independent nature to a range of clients in the mining industry. The VBKOM strategy is to form part of the owner's team to define and protect the owner's interest within our area of influence and control. VBKOM is committed to adding value to each client through innovative, practical, and trustworthy solutions.

Visit VBKOM website and social media for more information:

