

Sampling & QAQC

The **sampling process** involves the systematic reduction in mass and particle size of target mineralisation in order to provide a representative sample for analysis, modelling and interpretation. Quality assurance (QA) and quality control (QC) checks on the process are fundamental to an exploration programme in order to ensure confidence in the resultant mineral resource and reserve estimates.

For quality assurance purposes protocols are established for the entire sampling and analysis process. Consistent statistical monitoring and review of the resulting data constitutes the quality control process. The objective is not only to produce repeatable sampling results which are unbiased, accurate and precise but to ensure highest confidence in the result can be applied, legitimising and enabling them to withstand scrutiny in an international forum.



SRK ES offers:

Experience in design, implementation, supervision and audit of sampling and QAQC procedures from grassroots to pre-feasibility projects, for a wide range of commodities worldwide.

Knowledge of the planning and operation of sampling programmes suitable for the stage of project, nature of target mineralisation and ground conditions. SRK ES conducts orientation surveys to identify appropriate sampling methods, the correct sediment size fraction, optimum sample volume, and sampling grid layout, SRK ES designs QAQC protocols for implementing and monitoring sample collection and preparation in order to avoid bias and contamination. This is achieved through careful selection and use of duplicates, blanks and Certified Reference Materials (CRMs or standards).

Expertise in coordinating with geochemical laboratories, database management and the analysis and interpretation of results. This provides not only confidence in the current sampling programme, but useful insight in to mineralisation styles that may require amendment in future sampling programmes. SRK ES can manage the set up of sample preparation facilities and analytical laboratories in remote exploration camps as well as recommend and audit internationally accredited analytical laboratories on behalf of clients. SRK ES are able to select appropriate sample digestion and assay techniques dictated by mineralisation types and elemental abundances.

Innovation in the use of handheld x-ray fluorescence (XRF) analysers for quick first-pass sample analysis and consideration of the advantages and limitations of using such data.

In depth planning and QAQC protocols provided by SRK ES ensure that a sampling programme is representative and unbiased, covers the maximum area, meets the aims and objectives of the client whilst being cost effective and complying with the QAQC requirements of international reporting codes.

To find out more about our technical services or discuss your project specific needs, please contact us;



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