

TECHNICAL UPDATE

AGAT Laboratories' Mining Geochemistry Services

Laboratory Accreditation: NI 43-101

NI 43-101 is the requirement from the Canadian Securities Administrators for any public disclosure of information relating to mineral properties in Canada. Using an accredited laboratory is a critical component of this requirement and allows the qualified individual to maintain confidence that all analyses are being determined by qualified analysts, using established procedures.

According to the Toronto Stock Exchange in *Disclosure Standards for Companies Engaged in Mineral Exploration, Development and Production*,

“The name of the analytical laboratories which assayed the material sampled must be disclosed together with their relationship to the company, if any. The accreditation of each laboratory, or lack thereof, must also be disclosed. Assay results must include disclosure of the analytical method(s) used.”

Form 43-101 F1, Item 15: Specifically details the requirements for a technical report including, “a summary of the nature and extent of all quality control measures employed and check assay and other check analytical and testing procedures utilized, including the results and corrective actions taken.”

IMPORTANT: Not all Accreditations are Equal

ISO 9001 ISO 9001 is the accreditation of quality management systems. Companies looking to attain this accreditation must, among other things, prove that they only purchase items from reputable vendors. To obtain an ISO 9001 designation laboratories do not need to have an independent audit of the laboratory itself.

ISO/IEC 17025:2005, which is the standard AGAT Laboratories' Mining division holds, is the internationally recognized gold standard for laboratory accreditation. ISO/IEC 17025:2005 implies ISO 9001 but must also contain a specific laboratory component.

This component requires laboratories to provide evidence to the accreditation body for the following:

- A quality system
- Proper control of documents and records
- Analytical traceability
- Proven competence of personnel
- Ensured method validation
- Evidence of maintenance and calibration of equipment
- Regular, successful proficiency testing

AGAT Laboratories' accreditation demonstrates that we use established procedures and qualified analysts to provide our clients with sampling results of the highest quality.

ISO/IEC 17025 ACCREDITATION

PROCEDURES	COMPETITORS						
	AGAT LABORATORIES (ON)	ACCURASSAY (ON)	ACTIVATION (ON)	SGS TORONTO (ON)	SGS LAKEFIELD (ON)	TSL (SK)	ALS MINERALS (BC)
Fire Assay: ICP-OES Finish	■		■	■	■	■	■
Fire Assay: ICP-MS Finish	■		■				
Fire Assay: Gravimetric Au	■		■	■	■	■	■
Fire Assay: Gravimetric Ag	■		■		■		■
4 Acid: ICP-OES	■		■	■			■
4 Acid: ICP-OES/ICP-MS	■		■	■			■
Aqua Regia: ICP-OES	■		■	■			■
Aqua Regia: ICP-OES/ICP-MS	■		■	■			■
Aqua Regia: HG - CVAAS	■		■	■	■		
Peroxide Fusion: ICP-OES	■		■				■
LECO: C	■		■	■	■		
LECO: S	■		■	■	■		
LECO: N	■						
Whole Rock: ICP-OES	■		■				
Loss on Ignition	■		■		■		
Rare Earth: ICP-MS	■		■	■			
Specific Gravity: Pycnometer	■						
Acid-base Accounting Procedures	■						