



TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 665

Legal Name of Accredited Laboratory: AGAT Laboratories Ltd.

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SCC File Number:	15833
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical
Program Specialty Area:	Mineral Analysis
Initial Accreditation:	2010-02-17
Most Recent Accreditation:	2020-12-06
Accreditation Valid to:	2022-02-16

SCC Group Accreditation:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- AGAT Laboratories Ltd., Thunder Bay, ON, Accredited Laboratory No. 875



The physical sample preparation involving accredited test methods as listed on the scope of accreditation may be performed at AGAT Laboratories Ltd. laboratory or at off-site sample preparation locations that are monitored regularly for quality control and quality assurance practices:

- AGAT Laboratories Ltd. - 5616 McAdam Road, Mississauga, ON L4Z 1P1
- AGAT Laboratories Ltd. - 150 Jaguar Dr, Timmins, ON P4R 0A8
- AGAT Laboratories Ltd. - 35 General Aviation Road, Timmins, ON P4N 7C3
- AGAT Laboratories Ltd. - 1740 Chemin Sullivan, Suite 1800, Val-d’Or, QC J9P 7H1
- AGAT Laboratories Ltd. - 1185 Rue Des Foreurs, Val-d’Or, QC J9P 6X9
- AGAT Laboratories Ltd. - 120-8600 Glenlyon Parkway, Burnaby, BC, V5J 0B6

METALLIC ORES AND PRODUCTS

Mineral Analysis Testing

Geotechnical Testing

Mineral Assaying

MIN-12007	Soil Sieving, Screen Analysis and Particle Size Distribution of Mineralogical Samples
MIN-12010	Crushing and Splitting of Mineralogical Samples - Mining Geochemistry Assaying Division - Branches
MIN-200-12000	Determination of Total Carbon and Sulphur in Geological and Soil Samples Using Infrared Combustion Furnace
MIN-200-12001	Determination of Major and Trace elements in Geological Samples by Sodium Peroxide Fusion in Zirconium Crucibles followed by Inductively Coupled Plasma – Optical Emission Spectroscopy ICP-OES Finish [Cu, Ni, Co, Fe, Mg, Pb, Si, Ca, Al, Mn, Zn, Cr, Sn, As, Mo]
MIN-12004	Determination of Gold in Geological Samples by Fire Assay Lead Collection Followed By Gravimetric
MIN-12006	Determination of Gold, Platinum and Palladium in Geological Samples by Lead Fusion Fire Assay with Inductively Coupled Plasma– Optical Emission Spectroscopy (ICP-OES) finish [Au, Pt, Pd]
MIN-200-12012	Milling of Mineralogical Samples - Mining Geochemistry Assaying Division
MIN-200-12015	Determination of Oxides in Mineralogical Samples Using Lithium Metaborate Fusion and Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES) [SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, Cr ₂ O ₃ , TiO ₂ , MnO, P ₂ O ₅ , SrO, BaO]



MIN-200-12016	Determination of Rare Earth Elements in Mineralogical Samples Using Lithium Borate Fusion and Inductively Coupled Plasma - Mass Spectroscopy (ICP-MS) [Ce, La, Y, Dy, Er, Eu, Gd, Ho, Lu, Tb, Tm, Yb, Nd, Pr, Sm, Th, U]
MIN-200-12018	Determination of Metals in Mineralogical Samples Using an Aqua Regia (Nitric and Hydrochloric Acid) Digestion and a Combination of Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES) and Inductively Coupled Plasma - Mass Spectroscopy (ICP-MS) [Ag, As, , Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Ga, Ge, Hf, Hg, In, La, Li, Mn, Mo, Ni, Nb, P, Pb, Re, Rb, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Tl, U, V, W, Y, Zn, Zr]
MIN-12019	Determination of Gold in Geological Samples by Lead Fusion Fire Assay and Atomic Absorption Spectroscopy.
MIN-200-12020	Determination of Metals in Mineralogical Samples Using Aqua Regia Digestion and Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES) [Ag, Al, As, B, Ba, Be, Bi, Fe, Ga, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zr, Zn]
MIN-200-12021	Determination of Loss On Ignition in Mineralogical Samples
MIN-200-12024	Determination of Specific Gravity in Mineralogical Samples by a Gas Pycnometer
MIN-200-12027	Determination of Oxide Content, Base Metal, Resistive And Rare Earth Elements in Mineralogical Samples following Fusion with Lithium Borate and using an X-Ray Fluorescence Spectrometer [Al ₂ O ₃ , BaO, CaO, Cr ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, P ₂ O ₅ , SiO ₂ , TiO ₂ , SrO, V ₂ O ₅ , Ba, Nb, Sb, Sn, Ta, W, Zr, Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Tb, Th, Tm, U, Y, Yb]
MIN-200-12034	Determination of Major and Trace Elements in Geological Samples by Four Acid Digestion, followed by ICP-OES [Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, In, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zr, Zn].
MIN-200-12035	Determination of Metals in Mineralogical Samples using Four Acid Digestion and a Combination of Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES) and Inductively Coupled Plasma - Mass Spectroscopy (ICP-MS) [Ag, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Ga, Ge, Hf, In, La, Li, Mn, Mo, Ni, Nb, P, Pb, Re, Rb, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Tl, U, V, W, Y, Zn, Zr]
MIN-200-12036	Determination of Graphitic Carbon In Geological Samples By using Carbon Determinator



MIN-200-12037	Standard Operating Procedure For Determination of Acid Soluble Sulphate (SO ₄ ²⁻) in Mineralogical Samples by Infrared Combustion Furnace.
MIN-200-12049	Determination of Metals in Geological samples employing Peroxide Fusion with Inductively Coupled Plasma – Optical Emission Spectroscopy (ICP-OES) finish and Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) finish [Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Mo, Nb, Nd, Ni, P, Pb, Pr, Rb, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr]

Number of scope listings: 20

Notes:

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

RG-MINERAL: SCC Requirements and Guidance for the Accreditation of Mineral Analysis Testing Laboratories

All the methods listed in this scope are subject laboratory In-house Test Methods.

Fire assay testing is conducted at the laboratory located at 5616 McAdam Road, Mississauga, ON, L4Z 1P1.

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice-President, Accreditation Services
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