

## SCOPE OF ACCREDITATION

**SGS Canada Inc.**  
**SGS CANADA MINERALS SERVICES GEOCHEMISTRY VANCOUVER**  
**8282 Sherbrooke Street**  
**Vancouver, BC**  
**V5X 4R6**

Accredited Laboratory No. 744  
(Conforms with requirements of CAN-P-1579 , CAN-P-4E (ISO/IEC 17025:2005))

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CLIENTS SERVED: Mining, Exploration, Research and Industrial Clients -  
Worldwide

FIELDS OF TESTING: Chemical/Physical

PROGRAM SPECIALTY Mineral Analysis  
AREA:

ISSUED ON: 2012-04-05

VALID TO: 2016-04-05

### **METALLIC ORES AND PRODUCTS**

#### **Metallic Ores:**

##### **Rocks and Ores**

*(Sediments, sands, soils, stones*  
*Precious Metals)*

#### **Mineral Analysis Testing**

(see Note 1 concerning off site physical sample preparation)

## Assay, Umpire Assay Work

### Mineral Assaying

AAS12E	<b><i>Determination of Silver in Geological Samples by Nitric and Hydrochloric Acid (aqua regia) Digestion and Atomic-Absorption Spectroscopy (AAS)</i></b> [Ag;HCl; HNO <sub>3</sub> ]
AAS42E	<b><i>Determination of Silver in Geological Samples by Multi-acid Digestion and Atomic-Absorption Spectroscopy (AAS)</i></b> [Ag; HNO <sub>3</sub> , HClO <sub>4</sub> , HF and HCl]
CSA06V	<b><i>Determination of Total Sulphur and Carbon in Geological Samples Using Infrared (IR) Combustion</i></b> [S ; C ; LECO]
FAA313-FAA515	<b><i>The Determination of Exploration Grade Gold by Lead Fusion Fire Assay and Atomic Absorption Finish</i></b> [30g.; 50g.; Au; HNO <sub>3</sub> , HCl, AAS]
FAG303-FAG505	<b><i>Determination of Ore Grade Gold by Lead Fusion Fire Assay and Gravimetric Finish</i></b> [30g.; 50g.; Au; HNO <sub>3</sub> , NH <sub>4</sub> OH]
ICM14B	<b><i>Determination of Fifty two (52) Elements in Geological Samples using an Aqua Regia Digestion and a Combination of Inductively Coupled Plasma Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS)</i></b> [HNO <sub>3</sub> ; HCL; Al; Sb; As; Ba; Be; Bi; B; Ca; Cd; Ce; Cs; Cr; Co; Cu; Ga; Ge; Hf; In; Fe; La; Pb; Li; Lu; Mg; Mn; Hg; Mo; Ni; Nb; P; K; Rb; Sc; Se; Ag; Na; Sr; S; Ta; Te; Tb; Tl; Th; Sn; Ti; U; V; W; Y; Yb; Zn; Zr]
ICP14B	<b><i>Determination of Thirty-Four (34) Elements in Geological Samples using Aqua Regia Digestion and Inductively Coupled Plasma Emission Spectrometry</i></b> [Ag; Al; As; Ba; Be; Bi; Ca; Cd; Cr; Co; Cu; Fe; Hg; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; S; Sb; Sc; Sn; Sr; Ti; V; W; Y; Zn; Zr; HCl; HNO <sub>3</sub> ]
ICP40B	<b><i>Determination of Thirty Two (32) Elements in Geological Samples using Multi-Acid Digestion and Inductively Coupled Plasma Emission Spectrometry (ICP-OES)</i></b> [HCl; HNO <sub>3</sub> ; HF; HClO <sub>4</sub> ; Ag; Al; As; Ba; Be; Bi; Cd; Ca; Cr; Co; Cu; Fe; K; La; Li; Mg; Mn; Mo; Na; Ni; P; Pb; Sb; Sc; Sn; Sr; Ti; W; V; Y; Zn; Zr]
ICP90Q	<b><i>Determination of Six (6) Elements in Mineralized Geological Samples (Ore Grade) using Sodium Peroxide Fusion and Inductively Coupled Plasma Emission Spectrometry (ICP-OES)</i></b> [Na <sub>2</sub> O <sub>2</sub> ; HNO <sub>3</sub> ; C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> ; Co; Cu; Pb; Mo; Ni; Zn]

### Notes:

***1. The physical sample preparation involving accredited test methods as listed on the scope of accreditation may be performed at SGS Minerals Services - Vancouver, Byrne Rd. or at off-site sample preparation locations (Telkwa, Vancouver and Elko, Nevada) that are monitored regularly for quality control and quality assurance practices.***

**CAN-P-1579:** Requirements for the Accreditation of Mineral Analysis Testing Laboratories

**CAN-P-4E (ISO/IEC 17025):** General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

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S. Cross, Director, Conformity Assessment

Date: 2012-04-05

Number of Scope Listings: 9

SCC 1003-15/919

Partner File #0

Partner: