

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G909-1

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 1.02 ppm  
Standard Deviation 0.06 ppm  
Confidence Interval +/- 0.01 ppm

### Aqua Regia Digest

Gold Grade 0.98 ppm  
Standard Deviation 0.06 ppm  
Confidence Interval +/- 0.017 ppm



## CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	<u>Major Elements by Fusion / XRF (%)</u>	
Control statistics were produced from results accumulated in the October-2009 round robin. A total of 135 fire assay results and 56 results from an aqua regia technique were used to certify this material.	Antimony <0.1	Fe	nr
<u>Material Description</u> This material is described as a Composite Gold Ores minor sulphide.	Arsenic <0.5	SiO <sub>2</sub>	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.	Barium 280	Al <sub>2</sub> O <sub>3</sub>	nr
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Bromine <1	TiO <sub>2</sub>	nr
<u>Preparation and Packaging</u> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.  Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cadmium <2	MnO	nr
<u>Assay Testwork</u> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.	Caesium 1.1	CaO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%) nr	P	nr
<u>Material Safety</u> This product is not hazardous and non-toxic.	Cerium 34	S	nr
	Chromium 120	MgO	nr
	Cobalt 36	K <sub>2</sub> O	nr
	Europium 1.3	NazO	nr
	Gold (ppb) 1080	LOI1000	nr
	Hafnium 4		
	Iridium (ppb) <20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%) 7.9	'nr': Not Reported	
	Lanthanum 17		
	Lutetium 0.37		
	Mercury nr		
	Molybdenum <1		
	Neodymium nr		
	Nickel 36		
	Potassium (%) nr		
	Rubidium 54		
	Samarium 5.4		
	Scandium 30.8		
	Selenium <1		
	Silver 4		
	Sodium (%) 2.3		
	Strontium nr		
	Tantalum 1.1		
	Tellurium <10		
	Terbium 1.2		
	Thorium 6.8		
	Tin <50		
	Tungsten <1		
	Uranium 3.4		
	Ytterbium 3.2		
	Zinc 120		
	Zirconium 150		

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

G909-1

Geostats Pty Ltd, Certified Gold Reference Material, Product Code: