

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G311-9

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 10.01 ppm  
Standard Deviation 0.48 ppm  
Confidence Interval +/- 0.082 ppm

### Aqua Regia Digest

Gold Grade 7.45 ppm  
Standard Deviation nr ppm  
Confidence Interval nr 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 April 2011 round robin. A total of 134 fire assay results and nr results from an aqua regia technique were used to certify this material.	Antimony 39.1	Fe	10.54
	Arsenic 262	SiO <sub>2</sub>	56.88
	Barium 177	Al <sub>2</sub> O <sub>3</sub>	9.43
	Bromine 1.41	TiO <sub>2</sub>	0.75
	Cadmium 51.9	MnO	0.12
	Caesium 4.05	CaO	3.37
	Calcium (%) nr	P	0.049
	Cerium 33.5	S	2.74
	Chromium 211	MgO	2.09
	Cobalt 96.8	K <sub>2</sub> O	1.17
	Europium 0.557	Na <sub>2</sub> O	1.251
	Gold (ppb) 9800	LOI1000	3.8
	Hafnium 3.77	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb) <20	nr: Not Reported	
	Iron (%) 10.6		
	Lanthanum 13.5		
	Lutetium nr		
	Mercury nr		
	Molybdenum 11.9		
	Neodymium nr		
	Nickel 241		
	Potassium (%) nr		
	Rubidium 108		
	Samarium 2.97		
	Scandium 14.4		
	Selenium <5		
	Silver 13.5		
	Sodium (%) 0.892		
	Strontium nr		
	Tantalum 1.62		
	Tellurium <5		
	Terbium 0.587		
	Thorium 8.16		
	Tin <100		
	Tungsten 9.08		
	Uranium 2.84		
	Ytterbium <1		
	Zinc 11900		
	Zirconium <200		
<u>Material Description</u> This material is described as a Copper Gold ore - not suitable for AR.			
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale yellowish brown in colour.			
<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.			
<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.			
<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.			
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.			
<u>Material Safety</u> This product is not hazardous and non-toxic.			

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