GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G301-3

Certified Control Values

50 gram Fire Assay

Gold Grade	1.96 ppm
Standard Deviation	0.08 ppm
Confidence Interval	+/- 0.017 ppm

Aqua Regia Digest

Gold Grade	1.89 ppm
Standard Deviation	0.16 ppm
Confidence Interval	+/- 0.03 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the April-2001 & October-2001 round robins. A total of 90 fire assay results and 115 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Low grade Minor Sulphide - Eastern Goldfields.

Colour Designation (ISCC-NBS, SP440)

This material is light gray in colour.

Usage

This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

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.

Assay Testwork

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.

Stability

This product remains stable in its original packaging, away from direct sunlight.

Material Safety

This product is not hazardous and non-toxic.

Neutron Activation Analysis Results (ppm, unless otherwise noted)	
Antimony	<0.2
Arsenic	<1
Barium	<100
Bromine	<1
Cadmium	nr
Caesium	<1
Calcium (%)	6.435
Cerium	30.65
Chromium	195.5
Cobalt	40
Europium	1.965
Gold (ppb)	1990
Hafnium	3.685
Iridium (ppb)	<20
Iron (%)	9.155
Lanthanum	10.355
Lutetium	0.42
Mercury	nr
Molybdenum	<5
Neodymium	nr
Nickel	nr
Potassium (%)	0.26
Rubidium	31.9
Samarium	5.51
Scandium	35.25
Selenium	<5
Silver	<5
Sodium (%)	2.335
Strontium	nr
Tantalum	<1
Tellurium	<5
Terbium	nr
Thorium	1.065
Tin	nr
Tungsten	<2
Uranium	<2
Ytterbium	3.35
Zinc	193.5
Zirconium	<500

Major Elements by Fusion / XRF (%)	
Fe	nr
SiO_2	nr
Al_2O_3	nr
TiO_2	nr
MnO	nr
CaO	nr
P	nr
S	nr
MgO	nr
K_2O	nr
Na_2O	nr
LOI1000	nr

Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.

'nr': Not Reported

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

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