GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G910-2

Certified Control Values

50 gram Fire Assay

Gold Grade	0.90 ppm
Standard Deviation	0.05 ppm
Confidence Interval	+/- 0.009 ppm

Aqua Regia Digest

Gold Grade	0.89 ppm
Standard Deviation	0.07 ppm
Confidence Interval	+/- 0.017 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the October-2010 round robin. A total of 141 fire assay results and 63 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Low grade mine ore fresh, low sulphide.

Colour Designation (ISCC-NBS, SP440)

This material is medium 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	<0.1
Arsenic	0.292
Barium	411
Bromine	0.848
Cadmium	<5
Caesium	2.36
Calcium (%)	nr
Cerium	34.3
Chromium	119
Cobalt	24.6
Europium	<1
Gold (ppb)	940
Hafnium	3.89
Iridium (ppb)	<10
Iron (%)	5.42
Lanthanum	21.1
Lutetium	0.427
Mercury	nr
Molybdenum	10.1
Neodymium	nr
Nickel	27.5
Potassium (%)	nr
Rubidium	99.3
Samarium	4.44
Scandium	21
Selenium	<5
Silver	2.5
Sodium (%)	2.55
Strontium	nr
Tantalum	1.24
Tellurium	<10
Terbium	0.892
Thorium	13.2
Tin	<100
Tungsten	<2
Uranium	6.39
Ytterbium	2.65
Zinc	89.6
Zirconium	<200

Major Elements by Fusion / XRF (%)	
Fe	5.59
SiO_2	60.41
Al_2O_3	14.95
TiO_2	1.176
MnO	0.11
CaO	6.24
P	0.061
S	0.027
MgO	3.3
K_2O	1.96
Na_2O	3.439
LOI1000	0.23

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

'nr': Not Reported

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