GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G314-4

Certified Control Values

50 gram Fire Assay

Gold Grade	0.14 ppm
Standard Deviation	0.02 ppm
Confidence Interval	+/- 0.003 ppm

Aqua Regia Digest

Gold Grade	0.13 ppm
Standard Deviation	0.02 ppm
Confidence Interval	+/- 0.006 ppm

Geostats Pty Ltd A.C.N. 072 971 272 THE Common Seal OF

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the April-2014 round robin. A total of 160 fire assay results and 67 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Composite low grade Cu / Au Ore.

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	0.3
Arsenic	14
Barium	540
Bromine	1
Cadmium	<5
Caesium	2.3
Calcium (%)	nr
Cerium	112
Chromium	140
Cobalt	240
Europium	2
Gold (ppb)	110
Hafnium	7
Iridium (ppb)	<50
Iron (%)	4.5
Lanthanum	49
Lutetium	0.3
Mercury	nr
Molybdenum	7
Neodymium	nr
Nickel	83
Potassium (%)	nr
Rubidium	160
Samarium	8.4
Scandium	18.3
Selenium	<5
Silver	<2
Sodium (%)	1.23
Strontium	nr
Tantalum	1.1
Tellurium	nr
Terbium	1.2
Thorium	13.4
Tin	nr
Tungsten	2
Uranium	13.4
Ytterbium	3
Zinc	150
Zirconium	nr

Major Elements by Fusion / XRF (%)	
Fe	4.45
SiO_2	62.3
Al_2O_3	16.26
TiO_2	0.75
MnO	0.04
CaO	1.62
P	0.055
S	0.569
MgO	4.06
K_2O	3.9
Na_2O	1.48
LOI1000	2.01

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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