GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G314-6

Certified Control Values

50 gram Fire Assay

Gold Grade	1.98 ppm
Standard Deviation	0.07 ppm
Confidence Interval	+/- 0.01 ppm

Aqua Regia Digest

Gold Grade	1.98 ppm
Standard Deviation	0.11 ppm
Confidence Interval	+/- 0.025 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 170 fire assay results and 73 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Run of Mine 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	<0.1
Arsenic	<1
Barium	400
Bromine	<0.5
Cadmium	<5
Caesium	1.8
Calcium (%)	nr
Cerium	44
Chromium	130
Cobalt	25
Europium	1
Gold (ppb)	2160
Hafnium	5
Iridium (ppb)	<50
Iron (%)	6.5
Lanthanum	23
Lutetium	0.4
Mercury	nr
Molybdenum	23
Neodymium	nr
Nickel	23
Potassium (%)	nr
Rubidium	100
Samarium	5
Scandium	23.2
Selenium	<5
Silver	7
Sodium (%)	2.7
Strontium	nr
Tantalum	1.3
Tellurium	nr
Terbium	1
Thorium	12.9
Tin	nr
Tungsten	<1
Uranium	6.5
Ytterbium	3
Zinc	120
Zirconium	nr

Major Elements by Fusion / XRF (%)	
Fe	5.53
SiO_2	61.2
Al_2O_3	14.33
TiO_2	1.2
MnO	0.11
CaO	6.21
P	0.068
S	0.056
MgO	3.5
K_2O	1.85
Na_2O	3.15
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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