Major Elements by

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Low Level Gold Reference Material Product Code

GLG913-3

Certified Control Values

Low Level Gold

Gold Grade 2.81 ppb

Standard Deviation 1.85 ppb

Confidence Interval +/- 0.45 ppb



Neutron Activation

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the October-2013 & April-2015 round robins. A total of 69 gold assays were used to certify this material.

Material Description

This material is described as a Coffee rock.

Colour Designation (ISCC-NBS, SP440)

This material is pale reddish brown 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.

| unless otherwise noted) Antimony 0.289 Fe 15.831 Arsenic 24.4 SiO2 14.58 Barium 40.4 Al2O3 40.16 Bromine 4.595 TiO2 1.453 Cadmium <5 MnO 0.015 Cassium 0.519 CaO -0.01 Calcium (%) nr P 0.016 Cerium 38.45 S 0.071 Chromium 186 MgO 0.005 Cobalt 2 K2O 0.146 Europium <0.5 K2O 0.146 Europium <0.5 Na2O 0.012 Gold (ppb) 1.03 Hafnium 16.65 Iridium (ppb) <50 Neutron Activation Iron (%) 19.55 Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification Nectron Micromatrix 10 | Analysis Results (ppm, | | Fusion / XRF (%) | | |
|--|------------------------|-----------|--------------------------------|------------------|--|
| Arsenic Barium | unless otherwi | se noted) | | | |
| Barium 40.4 Al2O3 40.16 Bromine 4.595 TiO2 1.453 Cadmium <5 MnO 0.015 Caesium 0.519 CaO -0.01 Calcium (%) nr P 0.016 Cerium 38.45 S 0.071 Chromium 186 MgO 0.005 Cobalt 2 K2O 0.146 Europium <0.5 Na2O 0.012 Gold (ppb) 1.03 Hollouo 20.86 Hafnium 16.65 Neutron Activation Iridium (ppb) 19.55 Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification Neodymium nr Not Reported Neutron Activation Not Responses. Potassium (%) nr nr Rubidium 10 Not Responses. Selenium <10 Not Responses. Selenium <1 Not Responses.< | Antimony | 0.289 | Fe | 15.831 | |
| Bromine 4.595 TiO2 1.453 Cadmium <5 | Arsenic | 24.4 | SiO ₂ | 14.58 | |
| Cadmium <5 | Barium | 40.4 | Al ₂ O ₃ | 40.16 | |
| Caesium 0.519 CaO -0.01 Calcium (%) nr P 0.016 Cerium 38.45 S 0.071 Chromium 186 MgO 0.005 Cobalt 2 K2O 0.146 Europium <0.5 | Bromine | 4.595 | TiO ₂ | 1.453 | |
| Calcium (%) nr P 0.016 Cerium 38.45 S 0.071 Chromium 186 MgO 0.005 Cobalt 2 K2O 0.146 Europium <0.5 | Cadmium | <5 | MnO | 0.015 | |
| Cerium 38.45 S 0.071 Chromium 186 MgO 0.005 Cobalt 2 K2O 0.146 Europium <0.5 | Caesium | 0.519 | CaO | -0.01 | |
| Chromium Cobalt 186 Cobalt MgO Out of the procession of the pro | Calcium (%) | nr | Р | 0.016 | |
| Cobalt 2 K2O 0.146 Europium <0.5 | Cerium | 38.45 | S | 0.071 | |
| Europium <0.5 | Chromium | 186 | MgO | 0.005 | |
| Cold (ppb) | Cobalt | 2 | K ₂ O | 0.146 | |
| Hafnium Iridium (ppb) Iridium (ppb) Iron (%) 19.55 | Europium | <0.5 | Na ₂ O | 0.012 | |
| Iridium (ppb) Iron (%) Iron (%) Iron (%) Inon (% | Gold (ppb) | 1.03 | LOI1000 | 20.86 | |
| Iron (%) Lanthanum Lutetium Mercury Molybdenum Nickel Potassium (%) Rubidium Samarium Scandium Silver Sodium (%) Silver Tantalum Tantalum Terbium Terbium Tungsten Untetium 19.55 Lantlayses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes. 'nr': Not Reported 'nr': Not Reported 'nr': Not Reported 15.85 Selenium Sodium (%) Silver Tantalum Terbium Terbium Terbium Terbium Tin Tungsten Uranium 12.3 Ytterbium 2.2 Zinc 28.83 Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix indentification purposes. 'nr': Not Reported | Hafnium | 16.65 | | | |
| Lanthanum Lutetium O.284 Mercury Molybdenum Nickel Potassium (%) Samarium Samarium Silver Selenium Tantalum Tantalum Terbium Terbium Tungsten Uranium Lutetium O.284 Inr O.284 Inr O.284 Inr Single results and are single results and are indicative only. These are provided for matrix identification purposes. Inr | Iridium (ppb) | <50 | Neutron Activation | | |
| Lutetium 0.284 single results and are indicative only. These are provided for matrix identification purposes. Neodymium nr identification purposes. Potassium (%) nr Rubidium 10 'nr': Not Reported samarium 0.183 Scandium 15.85 Selenium <10 Silver <1 Sodium (%) 0.119 Strontium nr Tantalum 3.63 Tellurium nr Terbium <0.5 Thorium 113 Tin nr Tungsten Uranium 12.3 Ytterbium <2 Zinc <50 | Iron (%) | 19.55 | Analyses ar | ses and Fusion / | |
| Mercury Molybdenum Nickel Potassium (%) Samarium Scandium Silver Sodium (%) Silver Sodium (%) Strontium Tantalum Terbium Terbium Terbium Tungsten Uranium Yinr Molybdenum S.635 Neodymium Nickel S.635 Nel on r Rubidium No.183 Scandium No.183 No.183 No.184 N | Lanthanum | 7.5 | XRF Analyses are | | |
| Molybdenum Neodymium Nickel Potassium (%) Samarium Scandium Silver Sodium (%) Silver Sodium (%) Strontium Tantalum Terbium Terbium Terbium Tin Tungsten Uranium Nickel 5.635 nr deficition purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification Indicatification purposes. Indicatification purposes. Indicatification purposes. Indicatification Indicatification purposes. Indicatification Indicatificati | Lutetium | 0.284 | single results and are | | |
| Neodymium Nickel Potassium (%) Rubidium Samarium Scandium Selenium Sodium (%) Silver Sodium (%) Strontium Tantalum Terbium Terbium Tin Tungsten Uranium Vickel V-20 Virilication purposes. Identification purposes. Indication purposes. Indication purposes. Indication purposes. Indication purposes. Indication purposes. Indication Indication purposes. Indication Indica | Mercury | nr | indicative only. These | | |
| Nickel <20 | Molybdenum | 5.635 | • | | |
| Potassium (%) nr Rubidium 10 Samarium 0.183 Scandium 15.85 Selenium <10 | Neodymium | nr | identification | า | |
| Rubidium 10 'nr': Not Reported Samarium 0.183 Scandium 15.85 Selenium <10 | Nickel | <20 | purposes. | | |
| Samarium 0.183 Scandium 15.85 Selenium <10 | Potassium (%) | nr | | | |
| Scandium 15.85 Selenium <10 | Rubidium | 10 | 'nr': Not Rep | orted | |
| Selenium <10 | Samarium | 0.183 | | | |
| Silver <1 | Scandium | 15.85 | | | |
| Sodium (%) 0.119 Strontium nr Tantalum 3.63 Tellurium nr Terbium <0.5 | Selenium | <10 | | | |
| Strontium nr Tantalum 3.63 Tellurium nr Terbium <0.5 | Silver | <1 | | | |
| Tantalum 3.63 Tellurium nr Terbium <0.5 | Sodium (%) | 0.119 | | | |
| Tellurium nr Terbium <0.5 | Strontium | nr | | | |
| Terbium <0.5 | Tantalum | 3.63 | | | |
| Thorium 113 Tin nr Tungsten 1.81 Uranium 12.3 Ytterbium <2 | Tellurium | nr | | | |
| Tin nr Tungsten 1.81 Uranium 12.3 Ytterbium <2 Zinc <50 | Terbium | <0.5 | | | |
| Tungsten 1.81 Uranium 12.3 Ytterbium <2 Zinc <50 | Thorium | 113 | | | |
| Uranium 12.3 Ytterbium <2 | Tin | nr | | | |
| Ytterbium <2 Zinc <50 | Tungsten | 1.81 | | | |
| Zinc <50 | Uranium | 12.3 | | | |
| 1 .55 | Ytterbium | <2 | | | |
| Zirconium nr | Zinc | <50 | | | |
| | Zirconium | nr | | | |

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