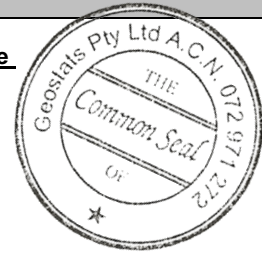


GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Ore Grade Base Metal Reference Material Product Code

GBM913-13



Certified Control Values

| Element | Grade | Standard Deviation | Num of Analyses | Confidence Interval |
|--------------|--------|--------------------|-----------------|---------------------|
| Nickel (ppm) | 84 | nr | nr | nr |
| Copper (ppm) | 121059 | 3677 | 117 | +/- 676 |
| Zinc (ppm) | 386 | nr | nr | nr |
| Lead (ppm) | 125 | nr | nr | nr |
| Cobalt (ppm) | nr | nr | nr | nr |
| Silver (ppm) | 74.1 | 3.9 | 111 | +/- 0.73 |
| Sulphur (%) | 2.43 | 0.10 | 90 | +/- 0.02 |

CRM Details

| <u>Control Statistic Details</u> Control statistics were produced from results accumulated in the October-2013 round robin. The number of results used to certify each analyte is shown in the table above. | <u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u> | | <u>Major Elements by Fusion / XRF (%)</u> | |
|---|--|----------|---|-------|
| | <u>Material Description</u> This material is described as a High grade copper ore sulphide. | Antimony | 1.07 | Fe |
| <u>Colour Designation (ISCC-NBS, SP440)</u> This material is light olive gray in colour. | Arsenic | 7.17 | SiO ₂ | 45.3 |
| <u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying. | Barium | 325 | Al ₂ O ₃ | 11.09 |
| <u>Preparation and Packaging</u> 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. | Bromine | 0.214 | TiO ₂ | 1.217 |
| <u>Assay Testwork</u> 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. | Cadmium | <2.75 | MnO | 0.13 |
| <u>Stability</u> This product remains stable in its original packaging, away from direct sunlight. | Caesium | 1.19 | CaO | 5.05 |
| <u>Material Safety</u> This product is not hazardous and non-toxic. | Calcium (%) | nr | P | 0.086 |
| | Cerium | 65.3 | S | 2.48 |
| | Chromium | 119 | MgO | 2.8 |
| | Cobalt | 24.2 | K ₂ O | 1.12 |
| | Europium | nr | Na ₂ O | 2.521 |
| | Gold (ppb) | 17.2 | LOI1000 | 4.44 |
| | Hafnium | 3.98 | | |
| | Iridium (ppb) | <20 | | |
| | Iron (%) | 7.2 | | |
| | Lanthanum | 33.9 | | |
| | Lutetium | 0.423 | | |
| | Mercury | nr | | |
| | Molybdenum | 14.5 | | |
| | Neodymium | nr | | |
| | Nickel | 87.5 | | |
| | Potassium (%) | nr | | |
| | Rubidium | 41.2 | | |
| | Samarium | 6.22 | | |
| | Scandium | 18.8 | | |
| | Selenium | <2.37 | | |
| | Silver | 75 | | |
| | Sodium (%) | 1.87 | | |
| | Strontium | nr | | |
| | Tantalum | 0.802 | | |
| | Tellurium | nr | | |
| | Terbium | 0.832 | | |
| | Thorium | 8 | | |
| | Tin | nr | | |
| | Tungsten | 1.85 | | |
| | Uranium | 3.41 | | |
| | Ytterbium | nr | | |
| | Zinc | 435 | | |
| | 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>

GBM913-13

Geostats Pty Ltd, Certified Ore Grade Base Metal Reference Material, Product Code: