

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

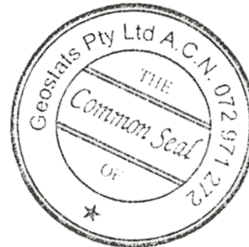
## Certified Low Level Gold Reference Material Product Code

# GLG916-2

## Certified Control Values

### Low Level Gold

|                     |              |
|---------------------|--------------|
| Gold Grade          | 3.48 ppb     |
| Standard Deviation  | 1.89 ppb     |
| Confidence Interval | +/- 0.57 ppb |



## CRM Details

| <u>Control Statistic Details</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>                                                                                 |          | <u>Major Elements by Fusion / XRF (%)</u> |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Control statistics were produced from results accumulated in the October-2016 round robin. A total of 45 gold assays were used to certify this material. | Antimony | 1.7                                       | Fe    |
| <u>Material Description</u><br>This material is described as a High Iron Laterite Darling Scarp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Arsenic                                                                                                                                                  | 21.5     | SiO <sub>2</sub>                          | 13.28 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Barium                                                                                                                                                   | <50      | Al <sub>2</sub> O <sub>3</sub>            | 18.61 |
| <u>Colour Designation (ISCC-NBS, SP440)</u><br>This material is moderate brown in colour.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Bromine                                                                                                                                                  | 4        | TiO <sub>2</sub>                          | 0.81  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cadmium                                                                                                                                                  | <10      | MnO                                       | 0.08  |
| <u>Usage</u><br>This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Caesium                                                                                                                                                  | <1       | CaO                                       | 0.12  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Calcium (%)                                                                                                                                              | nr       | P                                         | 0.033 |
| <u>Preparation and Packaging</u><br>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.<br><br>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. | Cerium                                                                                                                                                   | 21.6     | S                                         | 0.03  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chromium                                                                                                                                                 | 96.7     | MgO                                       | 0.09  |
| <u>Assay Testwork</u><br>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.                                                                                                                                                                                 | Cobalt                                                                                                                                                   | 6        | K <sub>2</sub> O                          | 0.08  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Europium                                                                                                                                                 | 0.292    | Na <sub>2</sub> O                         | <0.01 |
| <u>Stability</u><br>This product remains stable in its original packaging, away from direct sunlight.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Gold (ppb)                                                                                                                                               | <1.25    | LOI1000                                   | 13.89 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Hafnium                                                                                                                                                  | 9        |                                           |       |
| <u>Material Safety</u><br>This product is not hazardous and non-toxic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Iridium (ppb)                                                                                                                                            | <50      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Iron (%)                                                                                                                                                 | 44.9     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lanthanum                                                                                                                                                | 6.24     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Lutetium                                                                                                                                                 | 0.18     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mercury                                                                                                                                                  | nr       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Molybdenum                                                                                                                                               | 11       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Neodymium                                                                                                                                                | nr       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Nickel                                                                                                                                                   | <20      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Potassium (%)                                                                                                                                            | nr       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rubidium                                                                                                                                                 | <20      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Samarium                                                                                                                                                 | 0.8      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Scandium                                                                                                                                                 | 10.6     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Selenium                                                                                                                                                 | <10      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Silver                                                                                                                                                   | <5       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sodium (%)                                                                                                                                               | 0.076    |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Strontium                                                                                                                                                | nr       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tantalum                                                                                                                                                 | <2       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tellurium                                                                                                                                                | <20      |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Terbium                                                                                                                                                  | <1       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Thorium                                                                                                                                                  | 48.9     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tin                                                                                                                                                      | <200     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tungsten                                                                                                                                                 | <5       |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Uranium                                                                                                                                                  | 5        |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ytterbium                                                                                                                                                | <0.627   |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Zinc                                                                                                                                                     | <100     |                                           |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Zirconium                                                                                                                                                | <500     |                                           |       |

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