## **GEOSTATS PTY LTD**

Mining Industry Consultants
Reference Material Manufacture and Sales

**Certified Geochem Base Metal Reference Material Product Code** 

## **GBM904-5**

## **Certified Control Values**



Major Elements by

**Neutron Activation** 

Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval
Nickel (ppm)	39	8	56	+/- 2.1
Copper (ppm)	1111	58	64	+/- 14.5
Zinc (ppm)	26	8	53	+/- 2.1
Lead (ppm)	31	4	54	+/- 1.1
Arsenic (ppm)	108	13	52	+/- 3.5
Cobalt (ppm)	155	27	59	+/- 7.2
Silver (ppm)	0.8	0.5	33	+/- 0.2

## **CRM Details**

Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2004	unless otherwise noted)			
round robin. The number of results used to certify each analyte is shown in the	Antimony	0.5	Fe	nr
table above.	Arsenic	109	SiO <sub>2</sub>	nr
	Barium	63	Al <sub>2</sub> O <sub>3</sub>	nr
Material Description	Bromine	0.9	TiO <sub>2</sub>	nr
This material is described as a Copper Gold Ore Plibara.	Cadmium	<5	MnO	nr
	Caesium	0.7	CaO	nr
	Calcium (%)	nr	Р	nr
Colour Designation (ISCC-NBS, SP440)	Cerium	81	S	nr
This material is very light gray in colour.	Chromium	65	MgO	nr
	Cobalt	190	K <sub>2</sub> O	nr
<u>Usage</u>	Europium	1	Na <sub>2</sub> O	nr
This product is for use in the mining industry as a reference material for	Gold (ppb)	652	LOI1000	nr
monitoring and testing the accuracy of laboratory assaying.	Hafnium	12		
	Iridium (ppb)	<50	Neutron Act	ivation
Preparation and Packaging	Iron (%)	1.7	Analyses ar	nd Fusion /
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	42	XRF Analys	es are
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	0.4	0.4 single results and are indicative only. These	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr		
stable container ready for final packaging.	Molybdenum	2	are provided for matrix	
	Neodymium	nr	identification	n
Materials are statistically sampled from stores, then packaged into either heat	Nickel	51	purposes.	
sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready	Potassium (%)	nr		
for distribution. All packaging has been chosen to ensure minimal contamination	Rubidium	42	'nr': Not Rep	orted
from outside sources during shipment, use and storage.	Samarium	6.4		
	Scandium	8.3		
Assay Testwork	Selenium	<5		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	nr		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	2.1		
compiled into a comprehensive report detailing statistics for each standard. Assay	Strontium	nr		
distributions are checked and processed statistically, producing monitoring	Tantalum	1.3		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	<10		
homogeneity.	Terbium	0.9		
	Thorium	15		
<u>Stability</u>	Tin	<100		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	25		
•	Uranium	3.1		
Material Safety	Ytterbium	3		
This product is not hazardous and non-toxic.	Zinc	<100		
	Zirconium	420		

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