Common Seal

GEOSTATS PTY LTD

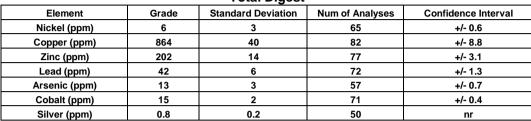
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Geochem Base Metal Reference Material Product Code

GBM914-4

Certified Control Values

Total Digest



Partial Digest

: a.t.a. 2.900t								
Element	Grade	Standard Deviation	Num of Analyses	Confidence Interval				
Nickel (ppm)	6	3	48	+/- 0.7				
Copper (ppm)	868	55	75	+/- 12.8				
Zinc (ppm)	190	16	63	+/- 4.1				
Lead (ppm)	42	9	58	+/- 2.4				
Arsenic (ppm)	13	3	46	+/- 1				
Cobalt (ppm)	14	2	48	+/- 0.6				
Silver (ppm)	0.9	0.3	60	+/- 0.08				

CRM Details

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	Neutron Activation		Major Elements by	
Control Statistic Details	Analysis Results (ppm,		Fusion / XRF (%)	
Control statistics were produced from results accumulated in the October-2014	unless otherwi			()
round robin. The number of results used to certify each analyte is shown in the	Antimony	0.6	Fe	19.94
table above.	Arsenic	13	SiO ₂	41.55
	Barium	510	Al ₂ O ₃	10.17
Material Description	Bromine	1.2	TiO ₂	0.3
This material is described as a Copper Pyrite final tail - This material also certified	Cadmium	<5	MnO	0.21
for partial digests.	Caesium	1.58	CaO	5.47
	Calcium (%)	nr	Р	0.08
Colour Designation (ISCC-NBS, SP440)	Cerium	63	S	1.07
This material is medium light gray in colour.	Chromium	40	MgO	1.72
	Cobalt	16	K ₂ O	3.49
Usage	Europium	< 0.826	Na ₂ O	2.59
This product is for use in the mining industry as a reference material for	Gold (ppb)	198	LOI1000	3.24
monitoring and testing the accuracy of laboratory assaying.	Hafnium	2		
	Iridium (ppb)	<50	Neutron Acti	vation
Preparation and Packaging	Iron (%)	20.6	Analyses and Fusion /	
All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry	Lanthanum	46.3	XRF Analyses are	
material is then pulverised to better than 75 micron (nominal mean of 45 micron)	Lutetium	<0.2	single results and are	
using an air classifier. The material is then homogenised and stored in a sealed,	Mercury	nr	· ·	
stable container ready for final packaging.	Molybdenum	36.7	indicative only. These	
	Neodymium	nr	are provided	for matrix
Materials are statistically sampled from stores, then packaged into either heat	Nickel	8	identification	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	100	'nr': Not Reported	
from outside sources during shipment, use and storage.	Samarium	4.39		
	Scandium	4.14		
Assay Testwork	Selenium	<10		
All standards are tested thoroughly in the Geostats bi-annual laboratory survey.	Silver	<1		
This involves assaying by multiple laboratories from around the world. Results are	Sodium (%)	1.89		
compiled into a comprehensive report detailing statistics for each standard.	Strontium	nr		
Assay distributions are checked and processed statistically, producing monitoring	Tantalum	<0.5		
statistics for these standards. Materials are tested regularly to ensure stability and	Tellurium	nr		
homogeneity.	Terbium	0.5		
	Thorium	5.7		
<u>Stability</u>	Tin	nr		
This product remains stable in its original packaging, away from direct sunlight.	Tungsten	26.5		
	Uranium	6.5		
Material Safety	Ytterbium	<2		
This product is not hazardous and non-toxic.	Zinc	220		
	Zirconium	nr		

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