Certificate of Analysis MEG, LLC

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MEG-Au.17.05

Certified Reference Material MEAN = 0.052 ppm Au 95% Confidence = 0.044 - 0.061

Prepared By: Shea Clark Smith / Minerals Exploration & Environemental Geochemistry Certified By: Shea Clark Smith, MSc.(Geochemistry)Manufactured for: MEG LABS, Inc.Date of Certification: December 14, 2017

Origin of Reference Material:

Certified Reference Material MEG-Au.17.05 was created from barren concrete block from Basalite, NV. Pulverized product was doped with gold. This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:

177 Kg of concrete block was jaw crushed and roll crushed.The batch was comminuted to powder in a ceramic ball mill for 120 hours.Gold in solution was added to the desired economic concentration.The batch was further comminuted to powder in a ceramic ball mill for 24 hours.Sizing tests of the final product show greater than 95% pass -74um (-200 mesh).The standard was packaged in 50 g envelopes, each envelope with a removable sticky-label.

Method of Analysis:

Using the ICPMS capabilities of just one laboratory, homogeneity tests were done to estimate Then, 10 samples each to 13 laboratories were fire assayed on 30 gram subsamples, and these to certify the material for gold concentration. New fire assay crucibles were used.

Summarized Assay Results: PROJECT: MEG-Au.17.05 reported in ppm (parts per million)

DATA POINTS (ALL DATA)		138
MEAN (ALL DATA)		0.053
STANDARD DEVIATION (ALL DATA)		0.005
% RSD		8.836
RANGE OF VALUES - HIGH		0.062
RANGE OF VALUES - LOW		0.042
95% CONFIDENCE LIMITS 0.043	to	0.062

DATA POINTS (LAB AVERAGE DATA)		13
MEAN (LABS)		0.052
STANDARD DEVIATION (LABS)		0.004
CV (% RSD)		7.756
RANGE OF VALUES - HIGH		0.057
RANGE OF VALUES - LOW		0.044
95% CONFIDENCE LIMITS 0.044	to	0.061

Statistical Procedures:

Acceptable assay limits are based on the results of 10 samples shipped to each of 10 laboratories. Some labs assayed submitted samples twice, in different months, or different years.

The samples were submitted with other MEG standards in randomized order, so that as much as Standards with an RSD (Relative Standard Deviation) of near or less than 5% are termed "Certified", while RSD's 5% to 15% are designated "Provisional". RSD's over 15% are "Informational".

Instructions and Recommendations for Use:

Submit the entire contents of one 50 g envelope in random locations in the submittal, approximately every 10-20 samples. Use of blanks (samples with "below detection" concentration of analyte) are also recommended, randomly placed every 30-40 samples.

Intended Use:

The standard material can be used to validate the analysis of samples from gold ores with a The recommended concentrations and limits for this material are based on multiple assays from several laboratories and reflect a consensus of the inherent chemical concentration. These values are a first attempt at a chemical characterization to which to which later data may be added as experience with the material increases. later data may be added as experience with the material increases.

Slight variations in analytical procedures between laboratories will result in slight biases to the recommended statistical limits.

This standard material is not recommended for method development, nor instrumental calibration.

Handling Instructions:

The material is packaged in manila tin-top envelopes for easy open and close use. The material should be reblended just prior to use in the assay laboratory. This can be done with a micro-riffle splitter or rubber sheeting.

Simple agitation and shaking is not sufficient to rehomogenize prior to use.

Normal safety precautions for handling powders are recommended. The use of safety glasses, dust inhalation protection, gloves, and a laboratory coat are suggested.

Safety Notice:

A Material Safety Data Sheet (MSDS) is not required for this material. This material will not release or otherwise result in exposure to a hazaardous chemical, under normal conditions of use. Use regular precautions as for any work with fine powder material.

Legal Notice:

This certificate and the referenced material have been prepared with due care and attention. However, Minerals Exploration & Environmental Geochemistry (MEG Labs), and Shea Clark Smith, MSc, P.G., accept no liability for any decisions or actions taken following the use of this geochemical reference material.

Sample	Lab 1 ppm Au	Lab 2 ppm Au	Lab 3 ppm Au	Lab 4 ppm Au	Lab 5 ppm Au	Lab 6 ppm Au	Lab 7 ppm Au	Lab 8 ppm Au
1 2 3 4 5 6 7 8 9 10	0.052 0.056 0.058 0.057 0.054 0.053 0.054 0.054 0.054 0.054	0.056 0.057 0.058 0.055 0.059 0.059 0.059 0.054 0.054 0.054	0.044 0.045 0.042 0.048 0.047 0.047 0.045 0.046 0.046 0.048	0.048 0.046 0.052 0.046 0.049 0.048 0.047 0.045 0.048 0.048	0.045 0.053 0.044 0.053 0.061 0.054 0.049 0.050 0.047 0.048	0.053 0.054 0.057 0.062 0.056 0.054 0.060 0.053 0.054 0.057	0.054 0.056 0.054 0.051 0.054 0.055 0.055 0.054 0.053 0.054	0.052 0.053 0.052 0.053 0.056 0.055 0.054 0.055 0.054 0.054 0.054
11 12	0.053	0.058 0.058		0.050		0.059 0.057		
	Lab 9 ppm Au	Lab 10 ppm Au	Lab 11 ppm Au	Lab 12 ppm Au	Lab 13 ppm Au			
1	0.052	0.055	0.047	0.048	0.055			
2	0.052	0.056	0.044	0.048	0.053			
3	0.056	0.053	0.044	0.054	0.053			
4	0.057	0.055	0.045	0.059	0.052			
5	0.051	0.053	0.045	0.054	0.056			
6	0.059	0.054	0.045	0.06	0.052			
7	0.051	0.054	0.044	0.054	0.051			
8	0.056	0.053	0.042	0.054	0.052			
9	0.060	0.055	0.042	0.061	0.051			
10	0.058	0.056	0.043	0.057	0.056			
11		0.057			0.053			
Major Co	onstituents	as Oxides						
•		4-acid, ICPMS	5 (Total Diges	stion)				
Raw Data:		Al%	Ca%	Fe%	К%	Mg%	Na%	S%
ICP/MS Da	ta (n=10)	4.45	4.31	0.53	3.15	0.11	2.36	0.11
Conversion	Factor	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.4953
		A102	CaO	Fe2O3	K2O	MgO	Na2O	SO3
% Oxide:		8.40	6.03	0.76	3.79	0.18	3.18	0.27
Raw Data: ICP/MS Da		Ti% 0.05	Si%					
Conversion	Factor	1.6681	2.1392					
		TiO2	SiO2					
			estimated					
% Oxide:		0.08	88.58					

Assay Data Used to Calculate "True" Gold Value:

Participating Laboratories:

American Assay Labs, Sparks Activation Labs, Ancaster Activation Labs, Kamloops Activation Labs, Timmins ALS, Loughrea ALS, Vancouver BV-Inspectorate, Sparks Bureau Veritas, Vancouver McClelland, Reno Skyline, Tucson

Certified By:

Shea Clark Smith, MSc., P.G.