Certificate of Analysis

MEG, LLC

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PRPBLANK.24.04

Geochemical Reference Material

MEAN =	**0.17**	**ppm Ag**		
95% Confidence =	**0.00**	**to**	**0.35**	
MEAN =	**0.003**	**ppm Au**		
95% Confidence =	**0.002**	**to**	**0.004**	
MEAN =	**1.37**	**ppm Cu**		
95% Confidence =	**0.26**	**to**	**2.48**	
MEAN =	**39.71**	**ppm Li**		
95% Confidence =	**37.30**	**to**	**42.12**	

Prepared By: MEG LLC
Certified By: Ajeet Milliard, PhD.
Manufactured for: MEG, LLC
Date of Certification: Thursday, May 23, 2024

Origin of Reference Material:

Geochemical Reference Material PRPBLANK.24.04 is clean, <1 (one) inch, rhyolite cobbles sourced from Western Nevada.
This material is not intended to be matrix-matched to any specific ore lithology.

Method of Preparation:

Material is sifted and packaged as two kilogram sacks of course material.

Method of Analysis:

Five or more samples were submitted to seven labs for total trace element concentration by 4-acid digestion and ICP-MS or ICP-ES depending on lab protocol).
Data reported in parts per million (ppm), unless otherwise noted.

Summarized Results:

PROJECT: PRPBLANK.24.04 **Trace Elements in ppm**

LAB DATA	Ag	Au	Cu	Li	Fe (pct)	S (pct)	Sb
Detection Limi	0.05	0.003	0.5	25	0.03	0.03	0.05
COUNT	**7**	**4**	**4**	**6**	**7**	**6**	**6**
LAB AVERAG	**0.17**	**0.003**	**1.37**	**39.71**	**0.59**	**0.03**	**0.69**
SD	**0.09**	**0.000**	**0.56**	**1.20**	**0.07**	**0.00**	**0.07**
RSD	**49.7**	**12.1**	**40.5**	**3.0**	**11.3**	**4.5**	**9.7**
10%	**0.02**	**0.000**	**0.14**	**4.0**	**0.06**	**0.00**	**0.1**
2SD	**0.17**	**0.001**	**1.11**	**2.41**	**0.13**	**0.00**	**0.13**
+10%	0.19	0.003	1.51	43.68	0.64	0.03	0.76
-10%	0.08	0.000	0.50	1.08	0.06	0.00	0.06
+2SD	0.35	0.004	2.48	42.12	0.72	0.03	0.83
-2SD	0.00	0.002	0.26	37.30	0.45	0.02	0.56
MAXIMUM	0.25	0.003	2.18	41.50	0.69	0.03	0.77
MINIMUM	0.06	0.003	0.63	38.38	0.50	0.03	0.56

For all elemental data, see tables in Appendix I.

Major Constituents as Oxides

Average of 64 samples: 4-acid, ICP-MS/AES

Raw Data:	**Al%**	**Ca%**	**Fe%**	**K%**	**Mg%**	**Na%**	**S%**	**Ti%**	**Si%**
ICP/MS Data	6.10	0.55	0.57	3.43	0.04	2.62	0.03	0.05	
Conversion Factor	1.8899	1.3992	1.4297	1.2046	1.6579	1.348	2.4953	1.6681	
n=	64	51	64	64	50	64	42	64	
	Al02	**CaO**	**Fe2O3**	**K2O**	**MgO**	**Na2O**	**SO3**	**TiO2**	**SiO2**
% Oxide:	11.53	0.77	0.82	4.13	0.07	3.53	0.07	0.08	Estimate 79.00

*Some labs did not report particular elements or had values below the detection limit of most other labs. Those data were not used here.

Statistical Procedures:

Acceptable assay limits are based on the results of five or more samples from seven laboratories.

The samples were submitted with other MEG standards in randomized order, so that as much as possible, real operating conditions were obtained from the participating laboratories. All of the data were used to determine an acceptable range, based on the mean and standard deviation of the "Lab Average Data".

The acceptable reporting range is the "95% Confidence Limit",which is the mean ±2 standard deviations.

Other statistics are provided to help the user assign viable acceptance boundaries.

Standard Ratings:

RSD (Relative Standard Deviation) near or less than 5% - "Certified".

RSD's between 5% to 15% - "Provisional"

RSD's over 15% - "Informational"

Instructions and Recommendations for Use:

Submit the entire contents of one 2 kg package in random locations within a submittal, immediately prior to and post expected higher grade intervals.

Use of blanks are recommended as randomly placed every 30-40 samples.

The analytical request should be the same as that used for the round robin assays that generated this certificate.

Intended Use:

The standard material can be used to validate the analysis of samples from ores with a similar grade. As a control sample in routine assay laboratory operations, it should behave within the limits as indicated statistically in this certification. Its intended use is to monitor inter- and intra-laboratory and instrumental bias within these limits.

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 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 polyester bags with a drawstring and tag.

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 hazardous chemical, under normal conditions of use.

Use regular precautions as for any work with material containing silica; gloves, appropriate mask or respirator, and safety glasses.

Legal Notice:

This certificate and the reference material have been prepared with due care and attention. However, MEG LLC, and Ajeet Milliard, PhD., accept no liability for any decisions or actions taken following the use of this reference material.

Participating Laboratories:

Actlabs, Ancaster
ALS, Vancouver
ALS, Lima
American Assay Lab, Sparks
ACME Laboratories, Vancouver
Bureau Veritas, Vancouver
SGS, Lakefield

Certified By: 

Ajeet Milliard, Ph.D.

ALL DATA	Ag_ppm	Al_pct	As_ppm	Au_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm
COUNT	61	64	64	48	58	58	64	51	55
DATA AVERAGE	0.19	6.10	5.71	0.003	402.22	2.28	0.25	0.55	0.11
SD	0.08	0.63	1.48	0.001	21.85	0.18	0.02	0.05	0.01
RSD	42.8	10.3	25.8	26.8	5.4	7.8	8.0	9.3	13.4
+10%	0.21	6.71	6.28	0.003	442.45	2.51	0.28	0.61	0.12
-10%	0.17	5.49	5.14	0.003	362.00	2.06	0.23	0.50	0.10
+2SD	0.36	7.36	8.66	0.004	445.92	2.64	0.30	0.65	0.13
-2SD	0.03	4.84	2.76	0.001	358.53	1.93	0.21	0.45	0.08
MAXIMUM	0.29	6.93	11.00	0.007	450.00	2.66	0.35	0.68	0.16
MINIMUM	0.04	4.44	3.60	0.003	350.00	2.00	0.25	0.45	0.10

ALL DATA	Ce_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Hf_ppm	In_ppm	K_pct	La_ppm
COUNT	59	50	14	18	64	39	28	64	59
DATA AVERAGE	33.70	0.55	2.64	1.37	0.57	2.79	0.02	3.43	17.20
SD	5.19	0.15	0.89	0.70	0.08	0.23	0.01	0.36	3.12
RSD	15.4	27.2	33.9	51.5	14.7	8.1	30.0	10.4	18.2
+10%	37.07	0.61	2.91	1.50	0.63	3.07	0.02	3.78	18.93
-10%	30.33	0.50	2.38	1.23	0.52	2.52	0.02	3.09	15.48
+2SD	44.08	0.85	4.43	2.77	0.74	3.25	0.03	4.14	23.45
-2SD	23.32	0.25	0.85	-0.04	0.41	2.34	0.01	2.72	10.96
MAXIMUM	40.00	1.00	4.00	2.90	0.75	3.30	0.03	3.96	22.00
MINIMUM	19.85	0.50	1.00	0.50	0.43	2.40	0.01	2.50	9.00

ALL DATA	Li_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_ppm	Nb_ppm	P_ppm	Pb_ppm	Rb_ppm
COUNT	45	50	64	58	64	39.00	29	61.00	39
DATA AVERAGE	39.61	0.04	438.48	5.86	2.62	18.51	51.17	25.79	117.11
SD	2.62	0.01	45.83	1.53	0.20	3.01	6.93	2.03	21.23
RSD	6.6	24.9	10.5	26.1	7.5	16.29	13.5	7.9	18.1
+10%	43.57	0.05	482.33	6.44	2.88	20.36	56.29	28.37	128.82
-10%	35.65	0.04	394.64	5.27	2.36	16.65	46.06	23.21	105.40
+2SD	44.86	0.07	530.15	8.91	3.01	24.53	65.03	29.86	159.58
-2SD	34.37	0.02	346.82	2.80	2.23	12.48	37.32	21.72	74.64
MAXIMUM	44.10	0.08	773.00	11.50	2.95	22.30	70.00	30.70	145.00
MINIMUM	34.00	0.03	395.00	4.19	2.22	9.70	40.00	21.20	74.90

ALL DATA	Re_ppm	S_pct	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm
COUNT	28	42	31	57	28	39	51	34	28
DATA AVERAGE	0.00	0.03	0.70	1.59	0.68	1.31	81.56	1.76	0.03
SD	0.00	0.00	0.08	0.43	0.24	0.26	5.35	0.14	0.00
RSD	0.0	18.2	11.2	27.3	35.3	19.5	6.6	8.1	0.0
+10%	0.00	0.03	0.77	1.75	0.75	1.44	89.72	1.93	0.03
-10%	0.00	0.02	0.63	1.43	0.61	1.18	73.40	1.58	0.02
+2SD	0.00	0.04	0.85	2.45	1.16	1.82	92.26	2.04	0.03
-2SD	0.00	0.02	0.54	0.72	0.20	0.80	70.86	1.47	0.03
MAXIMUM	0.00	0.05	0.90	2.20	1.00	1.70	94.00	2.00	0.03
MINIMUM	0.00	0.02	0.54	1.00	0.50	0.80	72.00	1.49	0.03

ALL DATA	Th_ppm	Ti_pct	Tl_ppm	U_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm
COUNT	53	64	35	41	41	63	50	39
DATA AVERAGE	10.25	0.05	0.69	3.62	1.59	12.14	34.14	62.03
SD	1.88	0.01	0.05	0.56	0.22	1.51	2.77	3.68
RSD	18.4	14.0	6.9	15.4	13.9	12.5	8.1	5.9
+10%	11.28	0.05	0.76	3.98	1.75	13.36	37.55	68.23
-10%	9.23	0.04	0.62	3.26	1.43	10.93	30.73	55.83
+2SD	14.02	0.06	0.79	4.73	2.03	15.17	39.68	69.39
-2SD	6.49	0.04	0.60	2.50	1.15	9.12	28.60	54.67
MAXIMUM	13.30	0.07	0.81	4.50	2.30	14.80	41.00	68.00
MINIMUM	6.39	0.04	0.60	2.40	1.10	8.10	31.00	55.00