

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-ME-1411

Recommended values and the “Between Lab” Two Standard Deviations

Gold	87.1 g/t	±	2.6 g/t	Certified value
Silver	43.7 g/t	±	4.8 g/t	Certified value
Copper	1.58 %	±	0.08 %	Certified value
Lead	0.28 %	±	0.02 %	Certified value
Zinc	0.49 %	±	0.03 %	Certified value

Note 1: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.

CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia

INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.

DATE OF CERTIFICATION: February 20, 2015

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone mixer. Splits were taken and sent to 15 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-ME-1411 was made by combing miscellaneous ores.

Approximate chemical composition (from whole rock analysis) is as follows:

	Percent		Percent
SiO ₂	52.4	MgO	7.1
Al ₂ O ₃	10.7	K ₂ O	1.2
Fe ₂ O ₃	12.4	TiO ₂	0.4
CaO	5.1	LOI	6.3
Na ₂ O	1.4	S	3.8
C	0.8		

Statistical Procedures:

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ± 2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual “between-laboratory” standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Assay Procedures:

Au: Fire assay pre-concentration, Gravimetric finish.
Ag, Cu, Pb, Zn: 4-acid digestion, AA or ICP finish.

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
ME-1411-1	88.19	83.50	85.60	84.90	87.20	87.01	87.99	86.3	88.00	88.00	86.06	86.50	87.40	85.50	88.78
ME-1411-2	87.12	81.20	85.60	85.60	86.70	88.28	88.92	86.2	87.10	88.40	88.65	86.92	87.30	87.89	86.18
ME-1411-3	89.39	87.10	89.80	84.90	90.90	86.53	87.49	85.6	86.90	88.00	87.65	86.94	87.00	86.51	87.83
ME-1411-4	88.59	83.70	84.40	86.00	88.30	89.66	87.13	86.7	86.50	86.10	87.59	88.19	85.70	86.75	87.93
ME-1411-5	87.99	83.30	86.90	84.70	89.20	88.57	87.64	87.1	87.70	86.00	88.11	86.11	84.10	86.42	87.44
ME-1411-6	91.12	81.20	83.70	85.10	88.20	88.86	88.25	84.0	89.20	89.50	89.13	89.89	85.40	86.34	87.96
ME-1411-7	88.12	85.40	85.60	85.00	84.50	87.14	87.07	86.9	87.40	87.60	86.08	90.46	87.20	86.53	87.11
ME-1411-8	87.06	82.80	87.00	84.80	89.00	88.49	88.06	86.1	86.20	88.00	87.45	88.13	86.10	83.90	88.01
ME-1411-9	87.32	85.90	89.00	85.80	87.80	87.08	87.78	86.2	87.90	88.60	89.91	87.02	84.20	86.03	87.59
ME-1411-10	84.26	82.50	85.80	84.90	85.80	87.53	87.10	87.7	88.00	86.20	86.11	86.81	82.80	86.18	88.79
Mean	87.92	83.66	86.34	85.17	87.76	87.92	87.74	86.28	87.49	87.64	87.67	87.70	85.72	86.20	87.76
Std. Devn.	1.7671	1.9500	1.8992	0.4572	1.8216	1.0008	0.5890	0.9976	0.8698	1.1778	1.3297	1.4624	1.5936	1.0131	0.7665
% RSD	2.01	2.33	2.20	0.54	2.08	1.14	0.67	1.16	0.99	1.34	1.52	1.67	1.86	1.18	0.87
	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t	Ag g/t
ME-1411-1	43.8	41.0	45.0	43.0	42.9	41.8	44.0	44	51.0	41.0	40.0	42.0	68.0	43.5	46.0
ME-1411-2	44.0	43.0	46.0	42.0	41.9	44.0	44.0	43	48.0	40.0	40.0	44.0	63.0	44.6	47.0
ME-1411-3	44.3	43.0	47.0	42.0	41.9	44.8	41.0	43	51.0	42.0	40.0	44.0	58.0	42.6	52.0
ME-1411-4	44.4	44.0	50.0	47.0	42.0	44.5	40.0	43	47.0	42.0	40.0	49.0	56.0	42.4	46.0
ME-1411-5	43.6	43.0	48.0	43.0	41.5	43.2	41.0	44	49.0	41.0	42.0	50.0	62.0	42.8	48.0
ME-1411-6	45.9	40.0	46.0	44.0	44.2	43.7	44.0	42	47.0	39.0	41.0	43.0	63.0	45.6	47.0
ME-1411-7	43.1	44.0	48.0	42.0	41.2	43.1	44.0	42	48.0	41.0	42.0	44.0	63.0	42.7	50.0
ME-1411-8	43.3	43.0	46.0	41.0	44.3	45.3	41.0	44	49.0	42.0	42.0	46.0	62.0	45.7	48.0
ME-1411-9	43.5	43.0	45.0	49.0	42.0	45.4	41.0	42	48.0	40.0	42.0	45.0	73.0	45.0	48.5
ME-1411-10	43.7	39.0	43.0	44.0	40.1	42.9	41.0	43	49.0	42.0	42.0	44.0	66.0	43.7	49.0
Mean	44.0	42.3	46.4	43.7	42.2	43.9	42.1	43.0	48.7	41.0	41.1	45.1	63.4	43.9	48.2
Std. Devn.	0.7947	1.7029	1.9551	2.4967	1.2936	1.1528	1.6633	0.8165	1.4181	1.0541	0.9944	2.5582	4.8120	1.2738	1.8567
% RSD	1.81	4.03	4.21	5.71	3.07	2.63	3.95	1.90	2.91	2.57	2.42	5.67	7.59	2.90	3.86

Results from round-robin assaying:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
ME-1411-1	1.55	1.61	1.52	1.57	1.68	1.57	1.57	1.55	1.59	1.60	1.64	1.54	1.69	1.53	1.56
ME-1411-2	1.57	1.62	1.58	1.50	1.67	1.62	1.57	1.54	1.59	1.58	1.65	1.55	1.66	1.51	1.55
ME-1411-3	1.58	1.64	1.55	1.54	1.70	1.57	1.56	1.57	1.57	1.57	1.64	1.60	1.68	1.53	1.53
ME-1411-4	1.57	1.59	1.52	1.58	1.68	1.62	1.57	1.55	1.57	1.57	1.65	1.58	1.69	1.53	1.56
ME-1411-5	1.54	1.58	1.57	1.52	1.70	1.62	1.56	1.59	1.66	1.60	1.64	1.56	1.66	1.53	1.56
ME-1411-6	1.55	1.58	1.53	1.55	1.68	1.60	1.59	1.55	1.59	1.58	1.66	1.59	1.67	1.52	1.58
ME-1411-7	1.57	1.60	1.54	1.57	1.68	1.62	1.55	1.56	1.66	1.57	1.66	1.61	1.68	1.53	1.60
ME-1411-8	1.52	1.64	1.56	1.56	1.67	1.64	1.57	1.57	1.61	1.59	1.63	1.56	1.64	1.54	1.53
ME-1411-9	1.51	1.62	1.56	1.56	1.68	1.57	1.56	1.56	1.59	1.56	1.65	1.55	1.62	1.56	1.57
ME-1411-10	1.57	1.61	1.54	1.55	1.64	1.57	1.58	1.58	1.67	1.57	1.65	1.61	1.67	1.55	1.60
Mean	1.55	1.61	1.55	1.55	1.68	1.60	1.57	1.56	1.61	1.58	1.65	1.58	1.67	1.53	1.56
Std. Devn.	0.0234	0.0209	0.0206	0.0245	0.0169	0.0265	0.0114	0.0153	0.0386	0.0133	0.0096	0.0264	0.0222	0.0147	0.0246
% RSD	1.51	1.30	1.33	1.58	1.01	1.65	0.72	0.98	2.40	0.85	0.59	1.67	1.33	0.96	1.57
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
ME-1411-1	0.272	0.280	0.282	0.275	0.285	0.274	0.289	0.278	0.276	0.274	0.287	0.270	0.280	0.263	0.260
ME-1411-2	0.268	0.280	0.288	0.273	0.278	0.276	0.287	0.280	0.278	0.275	0.283	0.290	0.280	0.264	0.266
ME-1411-3	0.273	0.290	0.290	0.274	0.280	0.272	0.281	0.278	0.280	0.274	0.283	0.290	0.280	0.263	0.262
ME-1411-4	0.268	0.280	0.293	0.281	0.283	0.276	0.278	0.282	0.269	0.274	0.286	0.290	0.290	0.263	0.263
ME-1411-5	0.267	0.280	0.292	0.271	0.279	0.282	0.287	0.281	0.296	0.278	0.284	0.280	0.280	0.269	0.268
ME-1411-6	0.271	0.280	0.287	0.279	0.275	0.274	0.285	0.275	0.277	0.272	0.284	0.290	0.280	0.263	0.268
ME-1411-7	0.270	0.280	0.287	0.277	0.273	0.274	0.292	0.270	0.292	0.273	0.287	0.270	0.280	0.265	0.264
ME-1411-8	0.268	0.280	0.288	0.282	0.289	0.284	0.289	0.279	0.275	0.271	0.285	0.290	0.280	0.269	0.262
ME-1411-9	0.269	0.280	0.286	0.275	0.273	0.280	0.295	0.279	0.276	0.277	0.285	0.280	0.280	0.268	0.277
ME-1411-10	0.270	0.280	0.284	0.279	0.272	0.268	0.294	0.282	0.283	0.275	0.285	0.290	0.280	0.270	0.270
Mean	0.270	0.281	0.288	0.277	0.279	0.276	0.288	0.278	0.280	0.274	0.285	0.284	0.281	0.266	0.266
Std. Devn.	0.0020	0.0032	0.0034	0.0036	0.0057	0.0048	0.0054	0.0036	0.0082	0.0021	0.0014	0.0084	0.0032	0.0031	0.0050
% RSD	0.73	1.13	1.17	1.30	2.04	1.75	1.88	1.30	2.91	0.77	0.51	2.97	1.13	1.17	1.88
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1411-1	0.500	0.470	0.488	0.488	0.514	0.452	0.504	0.496	0.495	0.503	0.503	0.470	0.500	0.470	0.462
ME-1411-2	0.500	0.460	0.499	0.488	0.510	0.460	0.494	0.495	0.495	0.503	0.496	0.500	0.490	0.472	0.464
ME-1411-3	0.499	0.470	0.497	0.490	0.535	0.452	0.486	0.500	0.493	0.491	0.499	0.500	0.490	0.471	0.463
ME-1411-4	0.496	0.460	0.503	0.499	0.501	0.458	0.489	0.493	0.473	0.496	0.502	0.500	0.500	0.472	0.464
ME-1411-5	0.500	0.460	0.499	0.485	0.519	0.466	0.500	0.514	0.505	0.500	0.497	0.490	0.490	0.480	0.478
ME-1411-6	0.502	0.460	0.497	0.497	0.515	0.463	0.500	0.495	0.489	0.497	0.495	0.500	0.500	0.469	0.477
ME-1411-7	0.497	0.470	0.500	0.495	0.516	0.470	0.496	0.497	0.506	0.495	0.501	0.470	0.500	0.475	0.472
ME-1411-8	0.492	0.470	0.499	0.498	0.520	0.475	0.496	0.502	0.491	0.496	0.499	0.500	0.490	0.482	0.460
ME-1411-9	0.494	0.470	0.496	0.496	0.519	0.462	0.496	0.496	0.492	0.494	0.498	0.480	0.490	0.480	0.474
ME-1411-10	0.502	0.460	0.493	0.494	0.521	0.454	0.497	0.503	0.504	0.498	0.500	0.500	0.500	0.483	0.478
Mean	0.498	0.465	0.497	0.493	0.517	0.461	0.496	0.499	0.494	0.497	0.499	0.491	0.495	0.475	0.469
Std. Devn.	0.0034	0.0053	0.0041	0.0049	0.0087	0.0078	0.0053	0.0062	0.0097	0.0038	0.0026	0.0129	0.0053	0.0052	0.0073
% RSD	0.67	1.13	0.83	0.99	1.68	1.69	1.06	1.23	1.96	0.77	0.52	2.62	1.06	1.09	1.55

Notes: Cu data from laboratories 5 and 13 was removed for failing the t test.
 Zn data from laboratories 5 and 6 was removed for failing the t test.

Participating Laboratories:

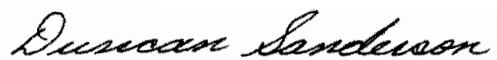
(not in same order as listed in table of results)

Bureau Veritas, Vancouver, BC, Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
AGAT, Mississauga, Ontario, Canada
ALS Canada Inc., North Vancouver, BC, Canada
ALS, Loughrea, Ireland (Omac)
American Assay Laboratories, Nevada, USA
Certimin, Lima, Peru
Inspectorate, Lima, Peru
Met-Solve, Langley, B.C., Canada
SGS, Lima, Peru
SGS Canada Inc., Burnaby, BC, Canada
Skyline Assayers and Laboratories, Arizona, USA
TSL Laboratories Ltd., Saskatoon, Saskatchewan, Canada
Bureau Veritas, Perth, Australia

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Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



Dr. Barry Smee, Ph.D., P. Geo.