

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-ME-1301

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>0.437 g/t ± 0.044 g/t</i>	<i>Certified value</i>
<i>Silver</i>	<i>26.1 g/t ± 2.2 g/t</i>	<i>Certified value</i>
<i>Copper</i>	<i>0.299 % ± 0.016 %</i>	<i>Certified value</i>
<i>Lead</i>	<i>0.188 % ± 0.010 %</i>	<i>Certified value</i>
<i>Zinc</i>	<i>0.797 % ± 0.038 %</i>	<i>Certified value</i>

Note: 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: July 25, 2013

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:

The ore was supplied by Farralon Resources from their Campo Morado property in Mexico. The Campo Morado precious-metal-bearing, volcanogenic massive sulphide deposits occur in a lower Cretaceous bimodal, calc-alkaline volcanic sequence. Most deposits occur in the upper part of a sequence of felsic flows and heterolithic volcanoclastic rocks or at its contact with overlying chert and argillite. Gold, silver, zinc, and lead are associated with pyrite, quartz, ankerite, sphalerite, chalcopyrite and galena, with minor tennantite-freibergite, arsenopyrite, and pyrrhotite. Standard CDN-ME-1301 was made by combining 300 kg of Farallon material with 400 kg of blank granitic ore.

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

	Percent		Percent
SiO ₂	52.7	MgO	3.2
Al ₂ O ₃	8.0	K ₂ O	1.1
Fe ₂ O ₃	17.4	TiO ₂	0.3
CaO	3.2	LOI	12.3
Na ₂ O	0.1	S	9.7

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, AA or ICP finish (30g sub-sample).
Ag, Cu, Pb, Zn: 4-acid digestion, AA or ICP finish.

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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-1301-1	0.407	0.443	0.463	0.39	0.447	0.446	0.438	0.468	0.417	0.474	0.449	0.428	0.438	0.457	0.429
ME-1301-2	0.406	0.476	0.480	0.44	0.452	0.456	0.453	0.475	0.400	0.484	0.421	0.419	0.428	0.454	0.410
ME-1301-3	0.427	0.453	0.470	0.38	0.448	0.461	0.443	0.432	0.421	0.478	0.415	0.427	0.444	0.465	0.423
ME-1301-4	0.420	0.463	0.466	0.42	0.443	0.479	0.441	0.426	0.389	0.465	0.418	0.442	0.440	0.439	0.420
ME-1301-5	0.421	0.492	0.462	0.39	0.438	0.432	0.428	0.425	0.412	0.464	0.409	0.421	0.425	0.445	0.422
ME-1301-6	0.421	0.488	0.469	0.42	0.444	0.437	0.476	0.469	0.411	0.448	0.415	0.414	0.412	0.437	0.402
ME-1301-7	0.416	0.459	0.466	0.44	0.428	0.447	0.419	0.458	0.395	0.452	0.411	0.410	0.404	0.435	0.436
ME-1301-8	0.415	0.469	0.472	0.41	0.447	0.449	0.417	0.435	0.408	0.477	0.448	0.439	0.407	0.470	0.430
ME-1301-9	0.423	0.479	0.472	0.43	0.445	0.431	0.441	0.424	0.424	0.451	0.412	0.407	0.429	0.427	0.428
ME-1301-10	0.427	0.432	0.464	0.42	0.463	0.472	0.439	0.437	0.389	0.438	0.430	0.409	0.429	0.441	0.420
Mean	0.418	0.465	0.468	0.414	0.446	0.451	0.440	0.445	0.407	0.463	0.423	0.422	0.426	0.447	0.422
Std. Devn.	0.0073	0.0193	0.0054	0.0212	0.0090	0.0162	0.0170	0.0203	0.0128	0.0153	0.0148	0.0123	0.0138	0.0139	0.0100
% RSD	1.76	4.14	1.16	5.12	2.02	3.58	3.86	4.56	3.14	3.30	3.50	2.92	3.25	3.12	2.37
	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-1301-1	28.9	26.2	24	25.6	25.1	29	25.1	26	28	27.1	27	25	27	26.4	26.6
ME-1301-2	27.9	26.5	24	25.8	25.7	29	25.1	25	27	26.9	28	25	26	26.3	25.2
ME-1301-3	28.2	26.8	25	25.7	26.0	31	25.6	25	27	26.2	27	25	27	26.3	29.5
ME-1301-4	28.9	26.8	24	25.6	26.1	29	23.8	26	27	26.1	27	27	25	25.6	25.7
ME-1301-5	27.2	27.2	25	25.3	26.5	29	24.5	26	27	25.9	27	26	26	26.4	26.8
ME-1301-6	27.9	26.1	25	25.4	26.4	29	25.2	26	28	25.4	26	24	26	25.9	26.3
ME-1301-7	28.0	27.3	24	25.3	26.5	29	25.5	26	27	27.6	26	24	26	26.3	26.4
ME-1301-8	28.1	28.7	24	25.4	27.2	28	24.7	26	28	26.2	27	25	26	26.0	28.1
ME-1301-9	26.2	27.7	24	25.9	26.0	28	24.4	26	28	26.7	26	25	27	26.6	26.0
ME-1301-10	26.2	27.3	24	26.1	25.6	29	24.5	25	28	25.8	27	24	27	24.1	27.5
Mean	27.8	27.1	24.3	25.6	26.1	29.0	24.8	25.7	27.5	26.4	26.8	25.0	26.3	26.0	26.8
Std. Devn.	0.9536	0.7706	0.4830	0.2685	0.5820	0.8165	0.5582	0.4830	0.5270	0.6707	0.6325	0.9428	0.6749	0.7249	1.2618
% RSD	3.44	2.85	1.99	1.05	2.23	2.82	2.25	1.88	1.92	2.54	2.36	3.77	2.57	2.79	4.71

Note: Ag results from Laboratory 6 were removed for failing the “t” test.

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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-1301-1	0.315	0.297	0.30	0.292	0.288	0.299	0.294	0.297	0.296	0.29	0.297	0.302	0.290	0.311	0.281
ME-1301-2	0.307	0.300	0.30	0.290	0.304	0.308	0.294	0.299	0.299	0.29	0.297	0.306	0.294	0.312	0.275
ME-1301-3	0.310	0.303	0.30	0.288	0.302	0.340	0.305	0.299	0.298	0.30	0.300	0.303	0.299	0.307	0.325
ME-1301-4	0.313	0.308	0.30	0.290	0.305	0.306	0.282	0.304	0.293	0.29	0.304	0.305	0.290	0.310	0.285
ME-1301-5	0.311	0.308	0.30	0.289	0.303	0.313	0.294	0.302	0.290	0.29	0.292	0.305	0.291	0.311	0.293
ME-1301-6	0.308	0.304	0.30	0.288	0.291	0.309	0.302	0.296	0.292	0.29	0.301	0.295	0.294	0.305	0.285
ME-1301-7	0.305	0.310	0.30	0.290	0.293	0.312	0.302	0.303	0.289	0.29	0.287	0.301	0.291	0.309	0.280
ME-1301-8	0.308	0.309	0.30	0.291	0.292	0.306	0.296	0.299	0.290	0.30	0.300	0.305	0.292	0.303	0.280
ME-1301-9	0.300	0.310	0.30	0.283	0.292	0.306	0.300	0.300	0.299	0.29	0.298	0.298	0.297	0.308	0.296
ME-1301-10	0.296	0.315	0.30	0.289	0.301	0.315	0.290	0.296	0.286	0.29	0.280	0.298	0.300	0.302	0.291
Mean	0.307	0.306	0.300	0.289	0.297	0.311	0.296	0.299	0.293	0.292	0.296	0.302	0.294	0.308	0.289
Std. Devn.	0.0058	0.0054	0.0000	0.0024	0.0064	0.0110	0.0068	0.0029	0.0046	0.0042	0.0073	0.0037	0.0037	0.0035	0.0143
% RSD	1.87	1.75	0.00	0.85	2.17	3.54	2.29	0.97	1.57	1.44	2.47	1.24	1.26	1.13	4.94
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
ME-1301-1	0.200	0.182	0.18	0.186	0.187	0.19	0.183	0.198	0.171	0.18	0.188	0.193	0.188	0.184	0.182
ME-1301-2	0.197	0.183	0.19	0.184	0.188	0.19	0.178	0.198	0.164	0.19	0.189	0.193	0.189	0.185	0.174
ME-1301-3	0.194	0.186	0.19	0.185	0.191	0.19	0.183	0.197	0.164	0.19	0.192	0.193	0.193	0.182	0.207
ME-1301-4	0.194	0.186	0.18	0.188	0.189	0.19	0.173	0.200	0.165	0.18	0.191	0.193	0.187	0.183	0.185
ME-1301-5	0.197	0.187	0.19	0.186	0.190	0.19	0.179	0.203	0.165	0.18	0.186	0.194	0.187	0.185	0.186
ME-1301-6	0.195	0.180	0.19	0.185	0.187	0.19	0.184	0.197	0.169	0.18	0.191	0.187	0.191	0.181	0.182
ME-1301-7	0.196	0.188	0.19	0.188	0.191	0.19	0.184	0.201	0.167	0.18	0.188	0.187	0.191	0.184	0.185
ME-1301-8	0.198	0.189	0.19	0.187	0.191	0.19	0.180	0.194	0.165	0.19	0.196	0.191	0.190	0.182	0.187
ME-1301-9	0.193	0.188	0.19	0.183	0.189	0.19	0.177	0.197	0.172	0.18	0.187	0.190	0.191	0.183	0.182
ME-1301-10	0.187	0.192	0.19	0.185	0.190	0.19	0.178	0.196	0.173	0.18	0.186	0.189	0.193	0.166	0.191
Mean	0.195	0.186	0.188	0.186	0.189	0.190	0.180	0.198	0.168	0.183	0.189	0.191	0.190	0.182	0.186
Std. Devn.	0.0034	0.0036	0.0042	0.0017	0.0016	0.0000	0.0036	0.0027	0.0035	0.0048	0.0031	0.0026	0.0022	0.0056	0.0086
% RSD	1.75	1.95	2.24	0.93	0.83	0.00	2.00	1.34	2.07	2.64	1.65	1.37	1.16	3.09	4.61
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
ME-1301-1	0.847	0.774	0.77	0.760	0.777	0.80	0.764	0.807	0.732	0.79	0.813	0.810	0.791	0.811	0.790
ME-1301-2	0.836	0.776	0.77	0.781	0.799	0.82	0.752	0.804	0.737	0.79	0.797	0.810	0.799	0.807	0.766
ME-1301-3	0.821	0.783	0.78	0.762	0.795	0.83	0.784	0.819	0.722	0.80	0.827	0.798	0.807	0.799	0.866
ME-1301-4	0.829	0.796	0.78	0.766	0.802	0.82	0.735	0.823	0.715	0.78	0.822	0.813	0.775	0.809	0.793
ME-1301-5	0.838	0.792	0.78	0.766	0.803	0.83	0.761	0.824	0.704	0.79	0.802	0.811	0.788	0.808	0.802
ME-1301-6	0.826	0.789	0.78	0.770	0.778	0.82	0.786	0.799	0.742	0.78	0.804	0.791	0.793	0.798	0.796
ME-1301-7	0.839	0.797	0.78	0.775	0.792	0.83	0.789	0.816	0.720	0.79	0.797	0.793	0.792	0.807	0.808
ME-1301-8	0.841	0.800	0.78	0.776	0.781	0.81	0.772	0.792	0.732	0.80	0.825	0.804	0.793	0.790	0.814
ME-1301-9	0.827	0.799	0.78	0.754	0.794	0.81	0.776	0.807	0.766	0.78	0.803	0.794	0.808	0.805	0.803
ME-1301-10	0.800	0.825	0.78	0.770	0.788	0.84	0.747	0.801	0.726	0.78	0.787	0.786	0.811	0.792	0.836
Mean	0.830	0.793	0.778	0.768	0.791	0.821	0.767	0.809	0.730	0.788	0.808	0.801	0.796	0.803	0.807
Std. Devn.	0.0134	0.0145	0.0042	0.0082	0.0096	0.0120	0.0181	0.0108	0.0169	0.0079	0.0135	0.0098	0.0109	0.0074	0.0272
% RSD	1.61	1.83	0.54	1.06	1.21	1.46	2.35	1.34	2.32	1.00	1.67	1.22	1.37	0.92	3.37

Note: Pb and Zn results from Laboratory 9 were removed for failing the “t” test.

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Participating Laboratories:

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

Acme Analytical Laboratories Ltd., Vancouver
Acme Analytical Laboratories Ltd., Chile
Actlabs-Ancaster, Ontario, Canada
Actlabs-Kamloops, BC, Canada
Actlabs-Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver
ALS, Loughrea, Ireland
ALS Reno, Nevada, USA
American Assay Laboratory, Nevada, USA
Certimin, Lima, Peru
Skyline Assayers and Laboratories, Arizona, USA
SGS – Vancouver, B.C., Canada
SGS – Lima, Peru
Alex Stewart Argentina SA
TSL Laboratories Ltd., Saskatoon

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Certified by



Duncan Sanderson, Certified Assayer of B.C.

Geochemist



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