

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-ME-11

Recommended values and the “Between Lab” Two Standard Deviations

<i>Gold</i>	<i>1.38 g/t</i>	<i>±</i>	<i>0.10 g/t</i>
<i>Silver</i>	<i>79.3 g/t</i>	<i>±</i>	<i>6.0 g/t</i>
<i>Copper</i>	<i>2.44 %</i>	<i>±</i>	<i>0.11 %</i>
<i>Lead</i>	<i>0.86 %</i>	<i>±</i>	<i>0.10 %</i>
<i>Zinc</i>	<i>0.96 %</i>	<i>±</i>	<i>0.06 %</i>

**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:** June 14, 2010

### **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 14 laboratories for round robin assaying.

### **ORIGIN OF REFERENCE MATERIAL:**

This standard is made from a mixture of a number of ores as well as some Cu, Pb and Zn concentrates.

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

	Percent		Percent
SiO <sub>2</sub>	56.6	MgO	3.1
Al <sub>2</sub> O <sub>3</sub>	11.7	K <sub>2</sub> O	2.7
Fe <sub>2</sub> O <sub>3</sub>	8.9	TiO <sub>2</sub>	0.6
CaO	3.7	LOI	6.7
Na <sub>2</sub> O	2.0	S	4.3
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  $\pm 2$  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.

**REFERENCE MATERIAL CDN-ME-11**

**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
	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
CDN-ME-11-1	1.38	1.30	1.37	1.44	1.15	1.28	1.32	1.36	1.36	1.36	1.32	1.36	1.36	1.43
CDN-ME-11-2	1.35	1.41	1.43	1.40	1.18	1.37	1.43	1.34	1.34	1.38	1.33	1.43	1.40	1.32
CDN-ME-11-3	1.44	1.48	1.49	1.36	1.30	1.28	1.37	1.36	1.34	1.42	1.32	1.35	1.44	1.36
CDN-ME-11-4	1.42	1.41	1.42	1.36	1.13	1.30	1.34	1.44	1.36	1.47	1.35	1.55	1.31	1.48
CDN-ME-11-5	1.29	1.37	1.45	1.38	1.21	1.32	1.34	1.32	1.30	1.50	1.33	1.41	1.44	1.45
CDN-ME-11-6	1.45	1.42	1.40	1.36	1.25	1.38	1.29	1.39	1.31	1.36	1.37	1.43	1.40	1.43
CDN-ME-11-7	1.34	1.31	1.37	1.36	1.40	1.37	1.33	1.42	1.37	1.52	1.31	1.44	1.43	1.42
CDN-ME-11-8	1.33	1.43	1.42	1.45	1.22	1.42	1.31	1.30	1.37	1.47	1.29	1.39	1.37	1.37
CDN-ME-11-9	1.28	1.32	1.38	1.36	1.36	1.41	1.32	1.32	1.38	1.55	1.38	1.37	1.41	1.37
CDN-ME-11-10	1.33	1.39	1.47	1.38	1.20	1.38	1.37	1.35	1.32	1.38	1.34	1.41	1.46	1.43
Mean	1.36	1.38	1.42	1.39	1.24	1.35	1.34	1.36	1.35	1.44	1.33	1.41	1.40	1.41
Std. Devn.	0.0597	0.0600	0.0414	0.0334	0.0876	0.0523	0.0397	0.0450	0.0276	0.0702	0.0272	0.0570	0.0452	0.0490
% RSD	4.39	4.34	2.91	2.41	7.07	3.87	2.96	3.31	2.05	4.87	2.04	4.03	3.22	3.48
	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
CDN-ME-11-1	80	76.7	79.0	78.9	70	84.0	79	80	75	80	70	75.7	80.7	80.6
CDN-ME-11-2	79	76.9	77.9	77.3	70.4	81.8	83	80	76	84	75	77.2	78.7	80.7
CDN-ME-11-3	80	77.1	77.5	80.2	70.9	83.7	82	80	75	83	70	76.6	80.7	82.0
CDN-ME-11-4	80	74.6	78.4	78.7	70.8	82.8	82	80	76	88	75	75.6	79.7	78.3
CDN-ME-11-5	81	77.2	76.4	78.9	74.4	85.4	87	80	74	80	75	76.3	82.1	82.2
CDN-ME-11-6	79	71.5	80.6	78.7	69.9	83.1	83	80	75	81	75	77.1	75.6	81.9
CDN-ME-11-7	78	72.8	80.4	81.8	69.1	81.7	82	70	74	82	75	78.7	83.9	80.4
CDN-ME-11-8	80	78.1	79.9	81.7	71.1	84.3	82	80	77	85	75	79.5	83.2	76.6
CDN-ME-11-9	80	76.4	77.1	77.6	70.4	83.3	78	80	76	83	80	78.1	80.8	76.5
CDN-ME-11-10	78	77.1	79.4	78.6	71.1	85.2	80	80	78	77	70	80.3	80.9	85.8
Mean	79.5	75.8	78.7	79.2	70.8	83.5	81.8	79.0	75.6	82.3	74.0	77.5	80.6	80.5
Std. Devn.	0.9718	2.1583	1.4347	1.5349	1.4067	1.2579	2.4855	3.1623	1.2649	3.0569	3.1623	1.5982	2.3448	2.8312
% RSD	1.22	2.85	1.82	1.94	1.99	1.51	3.04	4.00	1.67	3.71	4.27	2.06	2.91	3.52

**NOTE: Au and Ag data from Lab. 5 was excluded for failing the “t” test.**

## REFERENCE MATERIAL CDN-ME-11

### 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
	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu	% Cu
CDN-ME-11-1	2.48	2.42	2.43	2.37	2.59	2.49	2.48	2.33	2.52	2.43	2.50	2.54	2.38	2.34
CDN-ME-11-2	2.45	2.37	2.38	2.41	2.58	2.49	2.46	2.35	2.54	2.45	2.52	2.47	2.41	2.33
CDN-ME-11-3	2.45	2.40	2.38	2.50	2.65	2.50	2.50	2.32	2.46	2.50	2.44	2.52	2.44	2.34
CDN-ME-11-4	2.47	2.42	2.44	2.43	2.61	2.47	2.44	2.40	2.44	2.47	2.52	2.51	2.42	2.34
CDN-ME-11-5	2.47	2.41	2.34	2.48	2.66	2.49	2.49	2.31	2.51	2.49	2.46	2.52	2.43	2.34
CDN-ME-11-6	2.43	2.40	2.38	2.46	2.60	2.49	2.43	2.48	2.41	2.43	2.47	2.52	2.41	2.36
CDN-ME-11-7	2.43	2.38	2.42	2.44	2.60	2.46	2.43	2.45	2.44	2.45	2.49	2.54	2.42	2.33
CDN-ME-11-8	2.43	2.38	2.47	2.44	2.58	2.50	2.37	2.41	2.53	2.48	2.53	2.55	2.42	2.31
CDN-ME-11-9	2.47	2.38	2.34	2.42	2.60	2.48	2.45	2.39	2.45	2.49	2.45	2.49	2.41	2.35
CDN-ME-11-10	2.44	2.32	2.47	2.42	2.58	2.51	2.41	2.33	2.46	2.45	2.50	2.48	2.42	2.35
Mean	2.45	2.39	2.41	2.44	2.61	2.49	2.45	2.38	2.48	2.46	2.49	2.51	2.42	2.34
Std. Devn.	0.0189	0.0297	0.0481	0.0352	0.0284	0.0148	0.0392	0.0583	0.0450	0.0255	0.0316	0.0267	0.0158	0.0137
% RSD	0.77	1.25	2.00	1.44	1.09	0.59	1.60	2.45	1.82	1.03	1.27	1.06	0.65	0.59
	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb	% Pb
CDN-ME-11-1	0.87	0.789	0.83	0.955	0.99	0.90	0.946	0.834	0.796	0.85	0.842	0.862	0.859	0.846
CDN-ME-11-2	0.87	0.775	0.82	0.961	0.99	0.90	0.961	0.864	0.807	0.87	0.856	0.848	0.857	0.863
CDN-ME-11-3	0.86	0.775	0.81	0.953	1.00	0.91	0.962	0.866	0.794	0.90	0.856	0.860	0.859	0.849
CDN-ME-11-4	0.87	0.790	0.83	0.943	0.99	0.91	0.936	0.815	0.790	0.90	0.852	0.853	0.857	0.865
CDN-ME-11-5	0.87	0.771	0.79	0.955	1.00	0.91	0.968	0.825	0.789	0.87	0.836	0.860	0.864	0.854
CDN-ME-11-6	0.86	0.764	0.83	0.942	0.99	0.91	0.983	0.881	0.788	0.88	0.838	0.861	0.874	0.870
CDN-ME-11-7	0.86	0.752	0.82	0.930	0.98	0.90	0.970	0.847	0.785	0.87	0.852	0.870	0.858	0.871
CDN-ME-11-8	0.86	0.766	0.82	0.940	0.97	0.90	0.980	0.868	0.790	0.88	0.850	0.867	0.852	0.854
CDN-ME-11-9	0.85	0.779	0.81	0.962	1.00	0.90	0.939	0.827	0.807	0.87	0.844	0.863	0.857	0.864
CDN-ME-11-10	0.85	0.763	0.79	0.945	0.92	0.91	0.970	0.853	0.796	0.85	0.852	0.849	0.864	0.860
Mean	0.862	0.772	0.815	0.949	0.983	0.905	0.962	0.848	0.794	0.874	0.848	0.859	0.860	0.860
Std. Devn.	0.0079	0.0118	0.0151	0.0102	0.0241	0.0053	0.0163	0.0220	0.0076	0.0171	0.0073	0.0072	0.0060	0.0086
% RSD	0.92	1.53	1.85	1.08	2.45	0.58	1.69	2.59	0.96	1.96	0.86	0.84	0.70	1.00
	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn	% Zn
CDN-ME-11-1	0.99	0.887	0.97	0.982	0.96	0.99	0.891	0.927	0.764	0.96	0.981	0.974	0.964	0.927
CDN-ME-11-2	1.00	0.878	0.96	0.981	0.95	0.98	0.889	0.953	0.779	0.97	1.000	0.960	0.963	0.93
CDN-ME-11-3	0.99	0.873	0.93	0.982	0.95	0.98	0.899	0.971	0.763	0.98	1.020	0.970	0.960	0.93
CDN-ME-11-4	0.99	0.897	0.98	0.973	0.95	0.98	0.873	0.913	0.765	0.99	1.000	0.966	0.959	0.936
CDN-ME-11-5	0.99	0.891	0.94	0.975	0.94	0.98	0.901	0.925	0.778	0.99	0.989	0.962	0.959	0.933
CDN-ME-11-6	0.98	0.885	0.95	0.972	0.98	0.98	0.913	0.968	0.767	0.97	0.979	0.970	0.972	0.953
CDN-ME-11-7	0.99	0.866	0.94	0.968	0.95	0.98	0.899	0.938	0.755	0.95	0.995	0.986	0.960	0.955
CDN-ME-11-8	0.98	0.893	0.94	0.969	0.96	0.98	0.908	0.949	0.761	1.00	0.999	0.979	0.959	0.931
CDN-ME-11-9	0.99	0.897	0.93	0.977	0.98	0.98	0.878	0.918	0.773	0.98	0.995	0.958	0.965	0.934
CDN-ME-11-10	0.98	0.884	0.97	0.965	0.93	0.98	0.900	0.951	0.773	0.98	1.010	0.969	0.960	0.941
Mean	0.988	0.885	0.951	0.974	0.955	0.981	0.895	0.941	0.768	0.977	0.997	0.969	0.962	0.937
Std. Devn.	0.0063	0.0103	0.0179	0.0061	0.0158	0.0032	0.0125	0.0203	0.0077	0.0149	0.0123	0.0087	0.0041	0.0098
% RSD	0.64	1.16	1.88	0.62	1.66	0.32	1.40	2.16	1.01	1.53	1.24	0.89	0.43	1.04

**NOTE:** Cu and Pb data from Lab. 5 was excluded for failing the “t” test.  
Zn data from Lab. 9 was excluded for failing the “t” test.

## REFERENCE MATERIAL CDN-ME-11

### Participating Laboratories:

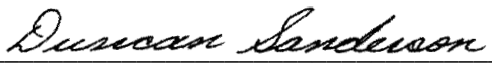
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver  
Actlabs-Ancaster, Ontario, Canada  
Actlabs-Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Ontario, Canada  
Alaska Assay Laboratory, Alaska, USA  
Alex Stewart Assayers, Mendoza, Argentina  
ALS Chemex Laboratories, North Vancouver  
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Omac Laboratories Ltd., Ireland  
TSL Laboratories Ltd., Saskatoon  
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Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
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