

# CDN Resource Laboratories Ltd.

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## ORE REFERENCE STANDARD: CDN-CGS-12

Recommended values and the “Between Lab” Two Standard Deviations

*Copper concentration:* 0.265 ± 0.015 %

*Gold concentration* 0.29 ± 0.04 g/t

**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 10, 2006

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 7 days in a double-cone blender. Splits were taken and sent to 12 laboratories for round robin assaying.

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

The ore was supplied by Pacific Sentinel from the Casino Property in British Columbia. Copper-gold-molybdenum mineralization is genetically related to a breccia and microbreccia pipe of fine grained quartz monzonites, intrusion breccias, and plagioclase-porphyritic intrusions that may be subvolcanic in origin, comprising part of the 72-74 Ma Casino Intrusive Complex. Roughly centred on the microbreccia pipe, both the alteration and mineralization are zoned. Innermost is the potassic alteration suite consisting of K-feldspar, biotite, magnetite, anhydrite, gypsum, and pyrite, chalcocopyrite, molybdenite, and gold.

### **Approximate chemical composition is as follows:**

	Percent			Percent
SiO <sub>2</sub>	67.3		MgO	1.4
Al <sub>2</sub> O <sub>3</sub>	13.2		K <sub>2</sub> O	4.6
Fe <sub>2</sub> O <sub>3</sub>	4.9		TiO <sub>2</sub>	0.4
CaO	1.4		LOI	5.4
Na <sub>2</sub> O	0.8			

### **Statistical Procedures:**

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean ± 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined. 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.

### **Results from round-robin assaying are presented on the following page:**

**Assay Procedures:** **Au:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).  
**Cu:** 4-acid digestion, AA or ICP finish.

**STANDARD REFERENCE MATERIAL CDN-CGS-12**

CGS-12	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12
	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)
	0.298	0.292	0.280	0.251	0.306	0.274	0.29	0.33	0.271	0.33	0.26	0.263
	0.333	0.309	0.285	0.337	0.278	0.282	0.28	0.346	0.287	0.32	0.31	0.264
	0.271	0.299	0.280	0.307	0.284	0.285	0.26	0.341	0.278	0.28	0.27	0.271
	0.292	0.314	0.280	0.233	0.334	0.28	0.30	0.369	0.269	0.37	0.31	0.292
	0.320	0.313	0.275	0.276	0.258	0.312	0.27	0.341	0.277	0.28	0.27	0.261
	0.278	0.303	0.270	0.259	0.278	0.338	0.35	0.374	0.252	0.28	0.25	0.268
	0.272	0.295	0.285	0.310	0.273	0.273	0.25	0.338	0.284	0.30	0.23	0.271
	0.299	0.315	0.285	0.325	0.304	0.314	0.27	0.331	0.264	0.33	0.28	0.273
	0.332	0.275	0.280	0.320	0.213	0.328	0.31	0.359	0.282	0.26	0.26	0.285
	0.298	0.318	0.275	0.260	0.307	0.281	0.28	0.332	0.296	0.29	0.28	0.286
Mean	0.299	0.303	0.272	0.288	0.284	0.299	0.286	0.348	0.277	0.303	0.273	0.275
Std. Dev.	0.023	0.013	0.002	0.036	0.033	0.024	0.030	0.016	0.013	0.036	0.026	0.011
%RSD	7.63	4.41	0.85	12.58	11.65	8.02	10.67	4.53	4.77	11.82	9.51	3.89
	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)
	0.261	0.273	0.269	0.270	0.263	0.271	0.256	0.269	0.273	0.251	0.258	0.265
	0.257	0.270	0.277	0.271	0.265	0.271	0.250	0.258	0.271	0.255	0.260	0.263
	0.265	0.277	0.277	0.268	0.264	0.277	0.256	0.260	0.263	0.254	0.259	0.270
	0.265	0.273	0.269	0.275	0.265	0.274	0.250	0.249	0.271	0.259	0.255	0.268
	0.267	0.271	0.269	0.270	0.267	0.272	0.253	0.257	0.276	0.256	0.259	0.264
	0.260	0.268	0.265	0.274	0.267	0.280	0.251	0.256	0.271	0.25	0.261	0.266
	0.255	0.272	0.265	0.269	0.268	0.277	0.259	0.258	0.271	0.264	0.258	0.267
	0.265	0.272	0.265	0.270	0.266	0.281	0.253	0.256	0.278	0.257	0.257	0.266
	0.255	0.272	0.269	0.267	0.270	0.275	0.254	0.247	0.275	0.256	0.261	0.260
	0.261	0.272	0.269	0.265	0.264	0.275	0.255	0.257	0.267	0.258	0.262	0.268
Mean	0.261	0.272	0.269	0.270	0.266	0.275	0.254	0.257	0.272	0.256	0.259	0.266
Std. Dev.	0.004	0.002	0.004	0.003	0.002	0.003	0.003	0.006	0.004	0.004	0.002	0.003
%RSD	1.68	0.85	1.63	1.11	0.80	1.27	1.15	2.29	1.60	1.56	0.80	1.08

Note: Au data from laboratory 8 were excluded from the calculations for failing the "t" test.

**STANDARD REFERENCE MATERIAL CDN-CGS-12**

**Participating Laboratories:**

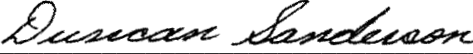
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver  
Assayers Canada Ltd., Vancouver  
ALS Chemex Laboratories, North Vancouver  
Alex Stewart Assayers, Argentina  
Genalysis Laboratory Services Pty. Ltd., Australia  
GTK Laboratory, (Geological Survey of Finland)  
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Certified by

  
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Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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