

# CDN Resource Laboratories Ltd.

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## ORE REFERENCE STANDARD: CDN-CGS-13

Recommended values and the "Between Lab" Two Standard Deviations

*Copper concentration: 0.329 ± 0.018 %*

*Gold concentration 1.01 ± 0.11 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:** April 12, 2007

### **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-porphyratic 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, chalcopyrite, molybdenite, and gold.

Standard CDN-CGS-13 was prepared using 723 kg of Casino ore and 2 kg of a high grade gold ore.

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

	Percent			Percent
SiO <sub>2</sub>	64.7		MgO	1.4
Al <sub>2</sub> O <sub>3</sub>	14.6		K <sub>2</sub> O	5.1
Fe <sub>2</sub> O <sub>3</sub>	6.1		TiO <sub>2</sub>	0.5
CaO	1.3		LOI	5.0
Na <sub>2</sub> O	0.3		S	1.6

### **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.

**STANDARD REFERENCE MATERIAL CDN-CGS-13**

**Results from round-robin assaying:**

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

	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)
CGS-13-1	1.050	1.065	1.05	0.942	0.92	0.980	0.95	0.965	1.041	0.95	1.14	1.010
CGS-13-2	0.999	1.145	0.93	1.090	1.02	1.010	0.93	0.930	1.017	0.93	1.02	1.010
CGS-13-3	0.958	0.966	1.07	0.988	1.06	1.025	0.92	0.748	1.011	1.05	0.99	0.956
CGS-13-4	1.070	1.030	1.02	1.010	0.98	1.073	1.02	0.878	1.005	1.06	1.12	0.971
CGS-13-5	1.020	0.948	0.93	1.020	0.86	0.984	1.14	0.974	1.015	0.97	1.09	0.954
CGS-13-6	0.983	0.950	0.92	1.100	0.91	1.074	1.03	0.960	1.066	0.98	1.00	0.958
CGS-13-7	0.989	0.973	0.92	1.110	1.00	1.072	0.94	0.890	1.077	0.99	0.98	0.976
CGS-13-8	0.992	1.040	0.90	0.984	1.11	1.011	1.00	0.992	1.107	1.07	1.03	1.010
CGS-13-9	1.000	0.901	1.07	1.140	0.95	1.037	0.95	1.070	1.056	1.07	0.96	1.000
CGS-13-10	1.030	0.956	0.90	0.971	1.07	1.071	1.00	0.860	1.033	0.95	1.07	1.020
Mean	1.009	0.997	0.971	1.036	0.988	1.040	0.992	0.922	1.043	1.008	1.028	0.984
Std. Dev.	0.034	0.072	0.072	0.069	0.079	0.034	0.069	0.092	0.035	0.055	0.053	0.026
%RSD	3.32	7.21	7.43	6.62	8.02	3.29	6.92	10.00	3.39	5.45	5.15	2.66
	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)
CGS-13-1	0.325	0.340	0.351	0.342	0.319	0.338	0.329	0.32	0.335	0.321	0.331	0.315
CGS-13-2	0.314	0.334	0.351	0.350	0.323	0.336	0.331	0.33	0.343	0.314	0.327	0.322
CGS-13-3	0.318	0.340	0.341	0.342	0.325	0.339	0.331	0.32	0.329	0.315	0.331	0.320
CGS-13-4	0.323	0.341	0.346	0.342	0.323	0.340	0.336	0.32	0.336	0.322	0.336	0.319
CGS-13-5	0.316	0.333	0.341	0.335	0.325	0.339	0.333	0.32	0.327	0.319	0.332	0.315
CGS-13-6	0.322	0.334	0.341	0.343	0.322	0.339	0.338	0.32	0.338	0.323	0.328	0.318
CGS-13-7	0.324	0.330	0.351	0.338	0.323	0.340	0.339	0.32	0.338	0.316	0.334	0.323
CGS-13-8	0.330	0.330	0.341	0.343	0.322	0.339	0.331	0.32	0.335	0.315	0.326	0.313
CGS-13-9	0.323	0.318	0.346	0.334	0.319	0.336	0.333	0.32	0.335	0.322	0.329	0.317
CGS-13-10	0.325	0.328	0.341	0.331	0.317	0.341	0.333	0.32	0.338	0.310	0.339	0.309
Mean	0.322	0.333	0.345	0.340	0.322	0.339	0.333	0.321	0.335	0.318	0.331	0.317
Std. Dev.	0.005	0.007	0.005	0.006	0.003	0.002	0.003	0.003	0.005	0.004	0.004	0.004
%RSD	1.48	2.08	1.33	1.63	0.83	0.48	0.98	0.99	1.37	1.36	1.24	1.34

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

**STANDARD REFERENCE MATERIAL CDN-CGS-13**

**Participating Laboratories:**

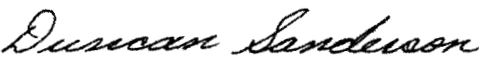
(not in same order as listed in table of results)

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Actlabs, Ancaster, Ontario  
Assayers Canada Ltd., Vancouver  
ALS Chemex Laboratories, North Vancouver  
Alex Stewart Assayers, Argentina  
EcoTech Laboratory, Kamloops, B.C.  
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This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
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Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
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