

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-GS-P4A

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.438 \pm 0.032$  g/t (30g Fire Assay / ICP)**

**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:** May 2, 2011

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

Standard CDN-GS-P4A was prepared using ore supplied by Barrick Gold Inc. from their Cortez Hills Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Northern Carlin Trend in Northern Nevada, USA. The source material is from Devonian carbonates of the Popovich Formation. Gold is strongly associated with oxidized pyrite and other sulfides including the arsenic minerals orpiment and realgar. 42 kg of the Barrick ore was combined with 730 kg of a blank, granitic rock.

### **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 blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	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
Sample	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
GS-P4A-1	0.462	0.439	0.411	0.426	0.415	0.43	0.46	0.435	0.426	0.461	0.44	0.486	0.44	0.43	0.452
GS-P4A-2	0.445	0.447	0.401	0.419	0.420	0.45	0.43	0.437	0.433	0.462	0.44	0.486	0.39	0.44	0.446
GS-P4A-3	0.446	0.437	0.401	0.427	0.449	0.46	0.46	0.447	0.423	0.482	0.44	0.494	0.39	0.44	0.460
GS-P4A-4	0.434	0.450	0.408	0.423	0.451	0.45	0.43	0.425	0.426	0.462	0.44	0.478	0.38	0.44	0.413
GS-P4A-5	0.454	0.444	0.403	0.388	0.435	0.43	0.44	0.467	0.431	0.479	0.42	0.442	0.41	0.47	0.394
GS-P4A-6	0.450	0.436	0.395	0.434	0.441	0.42	0.46	0.437	0.435	0.470	0.45	0.484	0.39	0.43	0.416
GS-P4A-7	0.462	0.438	0.410	0.406	0.421	0.46	0.42	0.447	0.452	0.455	0.43	0.504	0.38	0.43	0.452
GS-P4A-8	0.439	0.436	0.400	0.415	0.433	0.45	0.42	0.433	0.446	0.466	0.44	0.470	0.42	0.44	0.441
GS-P4A-9	0.446	0.437	0.406	0.423	0.443	0.46	0.44	0.447	0.438	0.448	0.43	0.456	0.38	0.46	0.430
GS-P4A-10	0.440	0.434	0.394	0.429	0.422	0.42	0.43	0.427	0.433	0.464	0.44	0.470	0.43	0.44	0.443
Mean	0.448	0.440	0.403	0.419	0.433	0.443	0.439	0.440	0.434	0.465	0.437	0.477	0.401	0.442	0.435
Std. Dev'n	0.0094	0.0053	0.0059	0.0134	0.0129	0.0164	0.0160	0.0122	0.0091	0.0102	0.0082	0.0182	0.0223	0.0132	0.0208
%RSD	2.09	1.21	1.45	3.20	2.99	3.69	3.63	2.77	2.09	2.19	1.88	3.82	5.57	2.98	4.79

*Note: Data from Labs 12 and 13 was excluded for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO <sub>2</sub>	73.6	Na <sub>2</sub> O	2.7
Al <sub>2</sub> O <sub>3</sub>	10.0	MgO	1.4
Fe <sub>2</sub> O <sub>3</sub>	4.8	K <sub>2</sub> O	1.1
CaO	3.2	TiO <sub>2</sub>	0.5
MnO	< 0.1	LOI	2.2
Total S	0.1	Total C	0.4

**REFERENCE MATERIAL: CDN-GS-P4A**

**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 mean and standard deviation 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.

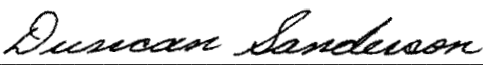
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alfred Knight, Kamloops, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
American Assay Laboratories, Nevada, USA  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Genalysis Lab Services, Australia  
Inspectorate, Richmond, B.C., Canada  
OMAC Laboratories Ltd., Ireland  
SGS, Vancouver, Canada  
SGS, Lima, Peru  
Skyline, Arizona, \usa  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any 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

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

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