

# CDN Resource Laboratories Ltd.

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## GOLD ORE REFERENCE MATERIAL CDN-GS-37

Recommended value and the "Between Laboratory" two standard deviations

<i>Gold</i>	<i>37.08 g/t ± 1.16 g/t</i>	<i>30g FA / Gravimetric</i>	<i>Certified Value</i>
<i>Gold</i>	<i>37.39g/t ± 1.22 g/t</i>	<i>50g FA / Gravimetric</i>	<i>Certified Value</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:** November 24, 2015

### ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-37 was prepared from ore sourced from Nunavut, Canada, consisting of a mix of lower greenschist metamorphosed Banded Iron Formation (BIF) and greywacke units with variable amounts of pyrrhotite, arsenopyrite and lesser pyrite. Gold mineralization is hosted mostly in the BIF with localized silicification, amphibole alteration and pyrrhotite/arsenopyrite replacement of magnetite.”

### 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:

30 g FA	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
Grav	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-37-1	36.80	37.10	36.60	37.31	37.06	37.17	37.80	38.45	37.42	37.60	37.35	37.20	37.00	36.20	36.86
GS-37-2	38.30	37.70	37.00	37.09	37.04	35.68	36.50	36.84	36.04	35.40	36.83	37.90	37.00	38.00	37.06
GS-37-3	37.80	37.80	37.92	37.35	37.14	36.84	37.20	38.35	37.50	37.00	37.12	37.70	36.90	36.90	36.52
GS-37-4	36.50	37.30	37.07	37.00	37.12	36.83	36.40	36.98	38.03	34.90	37.56	36.50	36.60	36.90	36.87
GS-37-5	38.30	37.70	37.83	37.72	36.94	36.21	37.70	37.11	36.11	36.40	36.14	37.40	37.30	32.20	37.52
GS-37-6	38.10	35.00	37.98	37.63	37.20	37.13	36.80	37.36	35.43	35.90	35.86	37.90	36.30	36.50	38.04
GS-37-7	37.70	37.30	37.25	37.19	37.02	37.96	37.10	38.39	36.78	36.30	36.64	36.50	35.80	36.10	37.57
GS-37-8	37.50	36.60	37.58	37.41	37.00	36.90	36.80	37.15	36.63	37.90	36.68	37.00	36.90	36.40	37.28
GS-37-9	37.10	37.90	37.03	37.29	36.99	38.50	37.60	37.52	36.47	36.80	36.52	36.60	37.50	36.60	37.13
GS-37-10	37.90	37.30	36.90	37.45	36.90	36.40	36.60	38.50	36.18	36.30	36.29	36.60	36.40	35.60	37.19
Mean	37.60	37.17	37.32	37.34	37.04	36.96	37.05	37.67	36.66	36.45	36.70	37.13	36.77	36.14	37.21
Std. Devn.	0.6218	0.8551	0.4798	0.2235	0.0922	0.8161	0.5126	0.6772	0.7917	0.9253	0.5353	0.5736	0.5034	1.5218	0.4287
% RSD	1.65	2.30	1.29	0.60	0.25	2.21	1.38	1.80	2.16	2.54	1.46	1.54	1.37	4.21	1.15
50 g FA	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
Grav	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-37-1	37.10	38.10	37.45	37.22	35.84	38.63	38.00	37.12	38.04	37.30	38.00	36.10	35.00	38.00	37.75
GS-37-2	38.60	37.90	37.89	37.02	35.78	35.92	37.70	37.55	36.77	38.20	37.12	37.20	35.70	38.60	37.53
GS-37-3	36.60	38.40	36.71	37.42	36.70	36.03	36.90	37.97	37.51	38.40	37.35	37.60	36.80	36.70	37.51
GS-37-4	37.40	37.20	37.08	37.19	36.62	37.79	37.10	37.09	37.99	37.20	38.06	37.50	35.80	36.50	38.14
GS-37-5	37.30	38.70	36.87	37.64	36.64	37.26	37.00	38.25	36.69	38.10	36.98	37.40	34.70	36.60	38.60
GS-37-6	38.10	38.10	37.85	37.60	36.58	37.45	37.80	36.94	36.07	37.40	36.24	37.00	36.60	37.50	38.18
GS-37-7	37.10	38.00	37.09	37.72	36.54	36.03	37.30	37.56	35.98	38.50	36.53	37.60	34.70	37.80	37.54
GS-37-8	37.60	37.30	36.83	37.31	36.50	37.32	37.10	37.25	37.94	36.90	37.37	37.00	34.10	37.10	37.63
GS-37-9	36.70	37.40	36.55	37.31	36.42	36.05	37.90	37.62	38.26	36.30	38.14	35.80	35.80	37.10	37.54
GS-37-10	38.10	38.00	37.08	37.40	36.58	38.03	37.50	37.93	37.89	37.40	37.92	37.00	33.70	37.90	38.10
Mean	37.46	37.91	37.14	37.38	36.42	37.05	37.43	37.53	37.31	37.57	37.37	37.02	35.29	37.38	37.85
Std. Devn.	0.6450	0.4818	0.4564	0.2197	0.3308	0.9797	0.4029	0.4290	0.8598	0.7119	0.6638	0.6161	1.0225	0.6941	0.3778
% RSD	1.72	1.27	1.23	0.59	0.91	2.64	1.08	1.14	2.30	1.89	1.78	1.66	2.90	1.86	1.00

Note: 50 g FA - Au data from Lab 13 was excluded for failing the t-test.

# GOLD ORE REFERENCE MATERIAL: CDN-GS-37

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

	Percent			Percent
SiO <sub>2</sub>	51.0		Na <sub>2</sub> O	0.2
Al <sub>2</sub> O <sub>3</sub>	3.4		MgO	4.4
Fe <sub>2</sub> O <sub>3</sub>	31.3		K <sub>2</sub> O	0.3
CaO	2.6		TiO <sub>2</sub>	0.1
MnO	0.1		LOI	5.0

## **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:**

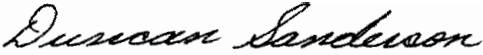
(not in same order as table of assays)

- \* Acme, South America, Santiago, Chile
- \* Activation Laboratories, Ancaster, Ontario, Canada
- \* Activation Laboratories, Thunder Bay, Ontario, Canada
- \* AGAT Labs, Mississauga, Ontario, Canada
- \* ALS Canada, North Vancouver, British Columbia, Canada
- \* ALS Ireland, Loughrea, Ireland
- \* ALS Reno, Nevada, United States
- \* ALS South America, Lima, Peru
- \* American Assay Laboratories, Nevada, United States
- \* Bureau Veritas, Vancouver, British Columbia, Canada
- \* Certimin, Lima, Peru
- \* Met-Solve Analytical, Langley, British Columbia, Canada
- \* SGS, Lima, Peru
- \* SGS, Vancouver, British Columbia, Canada
- \* TSL Laboratories Ltd., Saskatoon, Saskatchewan, Canada


## **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.