

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Ave, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

Certificate of Analysis

REFERENCE MATERIAL: CDN-GS-40B

Recommended values and the “Between Lab” Two Standard Deviations

Gold	29.9 gpt	± 1.2 gpt	30 g FA, Gravimetric Finish	Certified value
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Note 1: Standards with an RSD of near or less than 5% are certified; RSD's of between 5% and 15% are Provisional; RSD's over 15% are Indicated. Provisional and Indicated values cannot be used to monitor accuracy with a high degree of certainty.

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Ali Alizadeh, MSc, MBA, P Geo
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., FGC.
DATE OF CERTIFICATION: December 13th, 2023

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-40B was prepared by using a blend of 380 kg of ore from the Hemlo Mine, Marathon Ontario Canada, with 130Kg of high-grade gold ore supplied by Teuton Resources from their Clone gold property in B.C., Canada.

The Hemlo mine is known for its gold deposits, and the mineralization type there is typically classified as mesothermal lode gold deposits. These deposits are often associated with ancient volcanic activity and are found in veins or lodes within the rock formations. The gold mineralization at Hemlo occurs within quartz veins in the greenstones of the Wawa Subprovince in Ontario, Canada. The gold deposits in this region are generally formed from hydrothermal fluids that circulated through fractures and faults in the Earth's crust, depositing gold within the quartz veins.

Mineralization of Clone gold property is localized within highly silicified semi-massive to massive specular hematite. Gold occurs as fine disseminations and is associated with oxide mineralization. The major lithology is light grey to green andesitic pyroclastic intercalated with fine grained to aphanitic andesite.

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 15 commercial laboratories for round robin assaying.

Assay Procedures:

Au: 30 gr. fire assay pre-concentration, Gravimetric finish.

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 ± 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.

Quality Assurance and Quality Control Procedures:

Screening Test: After completion of homogenization, three samples, 300g each of homogenized material was randomly collected and was re-screened by a testing sieve. Over size material of this standard and based on CDN’s screening test was ~%1.0.

Homogeneity Test:

15 samples were selected selectively throughout the batch and were sent to an independent assay Laboratories for Homogeneity testing following directions of Annex B, Homogeneity and Stability of proficiency test items, ISO 13528:2015 Guidelines.

Assay results went through a statistical work-up by checking the mean, standard deviation, and %RSD. Based on performed statistical works outlined by ISO 13528; CDN-GS-40B is statistically homogenized (Appendix III).

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



Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist



Dr. Barry Smee, PhD, FGC

APPENDIX I:

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 3 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

Analyte	Percent	Analyte	Percent
SiO ₂	61.8	Na ₂ O	0.9
Al ₂ O ₃	12.3	MgO	1.6
Fe ₂ O ₃	12.0	K ₂ O	3.3
CaO	2.1	TiO ₂	0.5
MnO	<0.1	LOI	3.6
Total S	2.9	Total C	<0.1

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

Activation Labs, Ancaster, Ontario, Canada	ALS Canada, North Vancouver, BC, Canada
Activation Labs, Thunder Bay, Ontario, Canada	Bureau Veritas, Perth, Australia
AGAT Labs, Ontario, Canada	Bureau Veritas, Vancouver, BC, Canada
ALS, Brisbane, Australia	Certimin S.A., Lima, Peru
ALS, Perth, Australia	MS Analytical, Langley, BC, Canada
ALS Lima, Peru	SGS Lakefield, ON, Canada
ALS, Loughrea, Ireland	SGS, Vancouver, BC, Canada
ALS Johannesburg, South Africa	

APPENDIX II: Results from round-robin assaying:

Sample	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
	Au (g/t) by Fire Assay, 30g sample size and Gravimetric finish														
GS-40B	27.8	29.3	29.8	30.9	30.7	31.1	30.6	29.5	29.6	30.60	30.02	29.93	31.1	29.8	29.4
	28.8	30.1	29.6	30.0	29.7	29.8	29.8	30.0	29.4	29.93	29.96	29.43	31.0	30.0	30.5
	28.1	30.1	30.0	29.8	28.3	30.4	30.4	28.7	30.0	30.16	29.51	29.61	30.8	30.0	30.3
	29.3	30.2	29.4	30.2	29.1	30.5	30.1	29.0	30.4	30.48	29.47	29.59	28.8	28.7	28.7
	28.8	29.5	29.6	30.3	30.1	29.9	29.1	29.1	30.4	29.74	28.82	29.27	29.4	30.1	30.2
	28.1	29.6	29.2	30.8	30.2	29.7	30.2	28.7	30.4	30.82	30.36	29.39	25.5	29.5	29.2
	29.9	30.0	29.3	30.1	30.4	30.5	29.6	27.6	30.4	30.44	29.98	29.64	27.4	29.4	29.3
	28.7	29.7	28.8	29.5	30.4	29.7	29.6	27.8	30.5	29.74	29.35	30.16	30.8	30.2	29.1
	29.0	29.8	30.4	30.0	30.2	29.5	30.1	30.4	30.4	30.21	30.94	30.07	30.6	29.8	29.5
	30.1	30.1	29.0	29.5	30.3	30.3	29.9	30.4	30.6	29.95	28.96	29.15	29.5	30.2	29.0
Mean	28.9	29.8	29.5	30.1	29.9	30.1	29.9	29.1	30.21	30.21	29.74	29.624	29.5	29.8	29.5
Std. Devn.	0.76	0.31	0.48	0.47	0.73	0.50	0.44	0.98	0.41	0.37	0.64	0.34	1.84	0.46	0.61
% RSD	2.62	1.03	1.62	1.57	2.42	1.66	1.46	3.36	1.35	1.23	2.17	1.14	6.22	1.56	2.06

APPENDIX III: QAQC

Table below illustrates percentages of over size (+275 mesh) material in CDN-GS-40B

Standard	Study Date	Total weight Screened (g)	Total weight Over size (g)	Percentage
GS-40B	10/23/2023	300	3.5	1.2%
	10/23/2023	300	3	1.0%
	10/23/2023	300	3.5	1.2%

Table below shows homogeneity test results of CDN-GS-40B

GS-40B	Au Original	Au Repeat	Between Sample Variance Wt	Sample Avg. Xt	Stdev of Sample Avg	Within-Sample Std.
	30.7	28.6	2.100	29.650	0.011	4.410
	30.3	29.3	1.000	29.800	0.066	1.000
	30.0	30.2	0.200	30.100	0.310	0.040
	30.0	25.5	4.500	27.750	3.216	20.250
	29.0	28.7	0.300	28.850	0.481	0.090
	29.9	30.0	0.100	29.950	0.165	0.010
	29.7	29.6	0.100	29.650	0.011	0.010
	29.9	29.8	0.100	29.850	0.094	0.010
	29.5	29.9	0.400	29.700	0.025	0.160
	30.5	28.3	2.200	29.400	0.021	4.840
	30.2	29.9	0.300	30.050	0.257	0.090
	29.9	29.2	0.700	29.550	0.000	0.490
	29.7	30.3	0.600	30.000	0.209	0.360
	29.0	30.0	1.000	29.500	0.002	1.000
29.3	29.4	0.100	29.350	0.037	0.010	
Statistics			Gavg	SX	SS	
Mean	29.840	29.247	29.543	0.592	0.443	
SD	0.4954	1.1987	C	C SQRT		
RSD	1.660	4.099	1.3676	1.17		
Proof of Homogeneity	Based on Statistical procedures outlined in Annex B, ISO 13528:2015 guidelines, If "SS is < square root of C" Standard is considered homogenous. GS-40B is statistically homogenous					

APPENDIX IV: General Notes

Intended Use

This Certified Reference Material, fit for use as a control sample in routine assay laboratory quality control when inserted within runs of test samples and measured in parallel to test samples. This material can also be used for method development, use as independent calibration verification check standard or for validation of accuracy in a method validation exercise.

This CRM can also be used to assess inter-laboratory or instrument bias and establish within-laboratory precision and within-laboratory reproducibility. The certified concentrations and expanded uncertainty for this material are property values based on an inter-laboratory measurement campaign and reflect consensus results from the laboratories that took part in the exercise.

Handling

Do not use if the seal is broken or there are any signs of contamination.

The material is packaged in either Tin Tie envelopes, foil envelopes or jars that must be shaken before use.

Storage information

The material should be stored in a dry place, in such a way that it does not compromise the integrity of the CRM. The material should be stored in conditions which will ensure it does not absorb moisture.

Certificate is not valid if re-packaged by a third party.

Metrological Traceability

The values quoted herein are based on the consensus values derived from statistical analysis of the data from an inter-laboratory measurement program. Traceability to SI units is via the standards used by the individual laboratories all of which are accredited to the ISO17025 general requirements for the competence of testing and calibration laboratories and who have maintained measurement traceability during the analytical process.

Period of Validity

The certified values are valid for this product, while still sealed in its original packaging, until notification to the contrary. The stability of the material will be subject to continuous testing for every five the duration of the inventory. Should product stability become an issue, all customers will be notified and notification to that effect will be placed on the <http://www.cdnlabs.com/> website.

Minimum Sample Size

Most of the laboratory's reporting used a 0.5g sample size for the ICP and a 30g sample size for the fire assay. Our certified gold values are based on 30 g Fire Assay determinations. For optimal results, we strongly recommend you assay our standards with similar methods using "at least" 30 g of material. Using a smaller sample weight may result in erratic values. These are the recommended minimum sample sizes for the use of this material.