

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-GS-50A

Recommended value and the "Between Laboratory" two standard deviations

Gold	52.3 g/t ± 1.8 g/t	Certified value	30g FA /Gravimetric Finish
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PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Ali Alizadeh, MSc, MBA, P Geo
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: August 16th, 2021

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-50A was prepared by combining 150 kg low grade ore from the Minto Mine (Minto Explorations) in Yukon, Canada, supplied as coarse reject from diamond drilling blended with 75 kg of high-grade gold ore supplied by Teuton Resources from their Clone gold property in B.C., Canada and 25 kg of ore provided by Hecla Green Creek property.

Mineralization in Minto mine is primary chalcopyrite and bornite pervasively disseminated and as stringers within foliated granodiorite units rich in secondary biotite. Sulphide mineralization is typically accompanied by magnetite. Gold is intimately associated with the bornite mineralization and rarely observed as free gold.

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 the oxide mineralization. The major lithology is light grey to green andesitic pyroclastic intercalated with fine grained to aphanitic andesite.

The Greens Creek deposit is a polymetallic, stratiform, massive sulfide deposit. The host rock consists of predominantly marine sedimentary, and mafic to ultramafic volcanic and plutonic rocks, which have been subjected to multiple periods of deformation. Mineralization occurs discontinuously along the contact between a structural hanging wall of quartz mica carbonate phyllites, and a structural footwall of graphitic and calcareous argillite.

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.

ASSAY PROCEDURES:

Au: 30 gr Fire assay pre-concentration, Gravimetric finish.
Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 5 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

Analyte	Percent	Analyte	Percent
SiO ₂	50.4	Na ₂ O	1.6
Al ₂ O ₃	11	MgO	2.8
Fe ₂ O ₃	20	K ₂ O	2.1
CaO	3.8	TiO ₂	0.5
MnO	0.2	LOI	5.6
Total S	2.3	Total C	0.7

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 ± 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.

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.

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 by Fire Assay, 30g sample size and Gravimetric finish														
GS-50A-1	51.6	51.3	48.2	52.2	51.8	53.2	51.5	52.7	52.67	52.60	53.2	52.12	52.8	52.01	49.9
GS-50A-2	53.1	51.1	46.2	51.9	51.9	53.2	52.5	52.6	52.16	52.51	52.6	51.86	53.7	52.36	50.1
GS-50A-3	52.2	51.3	46.7	51.2	52.6	52.1	51.8	53.3	52.07	52.34	53.0	52.11	52.0	52.48	50.9
GS-50A-4	52.7	51.2	47.9	52.3	53.2	51.9	51.9	52.6	52.88	51.88	52.6	51.25	51.0	52.05	50.7
GS-50A-5	51.4	51.7	47.0	53.6	52.6	54.2	49.7	52.1	52.77	52.94	57.7	51.20	52.3	53.08	52.3
GS-50A-6	52.2	51.2	40.6	52.6	57.0	53.5	52.6	53.1	52.50	52.40	52.5	50.82	52.3	52.42	50.8
GS-50A-7	51.9	50.4	45.7	53.1	51.6	54.0	52.5	53.1	52.52	52.60	56.2	51.52	51.7	52.29	51.6
GS-50A-8	52.1	51.1	46.9	52.2	46.5	53.7	52.1	53.0	52.17	53.08	52.2	52.17	54.6	52.49	50.5
GS-50A-9	52.7	52.3	46.2	52.4	54.4	53.6	52.3	53.1	52.01	52.20	52.4	51.83	54.4	52.97	51.0
GS-50A-10	52.9	51.3	48.0	51.4	54.3	54.2	52.4	52.9	52.53	53.06	52.9	51.39	52.6	52.25	51.5
Mean	52.3	51.3	46.3	52.3	52.6	53.4	51.93	52.9	52.43	52.56	53.5	51.63	52.7	52.44	50.9
Std. Devn.	0.561	0.479	2.184	0.717	2.691	0.802	0.860	0.354	0.306	0.385	1.860	0.461	1.164	0.347	0.720
% RSD	1.074	0.935	4.713	1.372	5.118	1.502	1.657	0.669	0.585	0.733	3.475	0.892	2.208	0.662	1.413

Notes:

Au results from Lab 3 were removed for failing the t test.

PARTICIPATING LABORATORIES: (not in same order as table of assays)

Activation Labs, Ancaster, Ontario, Canada	ALS Lima, Peru
Activation Labs, Thunder bay, Ontario, Canada	Argetest-Turkey
AGAT Labs, Ontario, Canada	Bureau Veritas, Perth, Australia
ALS, Loughrea, Ireland	Bureau Veritas, Vancouver, BC, Canada
ALS, Perth Australia	Certimin S.A., Lima, Peru
ALS, Brisbane Australia	MS Analytical, Langley, BC, Canada
ALS Canada, North Vancouver, BC, Canada	TSL Laboratories Ltd., Saskatoon, SK, Canada
ALS Johannesburg, South Africa	

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



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Geochemist



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