

# CDN Resource Laboratories Ltd.

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## REFERENCE MATERIAL: CDN-GS-12B

Recommended value and the "Between Laboratory" two standard deviations

Gold	11.88 g/t ± 0.57 g/t	Certified value	30g FA / Gravimetric
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**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:** July 26<sup>th</sup>, 2018

### ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-12B was prepared from material received from WCM Minerals. Material was collected from Scottie Gold mine near the northwestern tip of Summit Lake, British Columbia, Canada. The Scottie Gold deposit is hosted by steeply east dipping volcanoclastic rocks that consist of green andesitic breccia and conglomerate with thin intercalated volcanic sandstones and tuffaceous bands. The strata are cut by mineralized veins, faults and lamprophyre, microdiorite and porphyry dykes. Several alteration assemblages are developed in the area.

The Scottie deposit consists of several mineralized quartz-carbonate veins. The veins contain lenses of massive sulphide, consisting largely of pyrrhotite and pyrite, with lesser sphalerite, chalcopyrite, galena, arsenopyrite, tetrahedrite and gold.

Alteration to the north of the property is characterized by the development of fine-grained pyrrhotite or pyrite in the volcanic host. To the south, the alteration zone has a gradational contact with less altered Hazelton rocks. Overprinting of the regional assemblage by the Summit Lake stock occurs. To the west of the Morris Summit fault, the Hazelton Group is metamorphosed to greenschist facies and locally altered to a grey to green fine-grained quartz-chlorite-pyrrhotite-pyrite assemblage.

### 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):

	Percent		Percent
SiO <sub>2</sub>	57.9	Na <sub>2</sub> O	1.3
Al <sub>2</sub> O <sub>3</sub>	10.4	MgO	1.8
Fe <sub>2</sub> O <sub>3</sub>	14.8	K <sub>2</sub> O	1.7
CaO	6.0	TiO <sub>2</sub>	0.4
MnO	0.1	LOI	5.0
Total S	2.6	Total C	1.0

### 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 ±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:**

Gravimetric 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	Lab 13	Lab 14	Lab 15
	Au g/t														
GS-12B-1	11.8	11.6	11.2	12.0	11.9	12.6	11.81	11.19	11.8	11.75	12.3	11.86	12.16	11.89	12.20
GS-12B-2	11.7	11.7	11.7	11.1	12.5	12.0	11.51	11.55	12.2	11.85	12.0	11.90	12.02	11.84	12.16
GS-12B-3	11.8	12.1	11.8	12.0	12.6	12.1	12.74	11.56	11.7	11.94	12.5	11.86	11.89	12.01	12.05
GS-12B-4	11.9	11.7	11.5	11.4	12.3	12.1	11.85	11.22	11.6	11.91	12.0	11.79	11.85	12.07	12.09
GS-12B-5	13.2	12.1	12.1	11.8	12.2	11.9	11.85	11.20	11.7	11.91	11.7	11.85	12.04	11.84	12.16
GS-12B-6	11.7	11.9	11.8	11.5	11.7	11.7	11.75	12.26	11.6	11.81	12.1	11.94	11.80	11.97	12.49
GS-12B-7	11.2	12.0	11.7	11.2	11.8	11.7	12.41	11.50	11.6	11.83	12.6	11.82	11.81	11.69	11.84
GS-12B-8	12.7	11.6	11.9	11.7	12.5	11.6	12.17	11.63	12.3	11.75	12.4	11.97	12.16	11.65	12.11
GS-12B-9	12.2	11.8	10.8	11.0	12.2	11.2	11.87	11.32	11.8	11.78	11.8	11.85	11.99	12.00	12.56
GS-12B-10	12.3	11.6	12.0	11.2	12.8	12.5	11.84	11.53	11.7	11.81	12.1	11.90	11.93	11.94	12.00
Mean	12.0	11.8	11.6	11.5	12.2	11.9	11.98	11.50	11.8	11.83	12.2	11.87	11.97	11.89	12.17
Std. Dev.	0.572	0.202	0.392	0.370	0.371	0.414	0.360	0.316	0.249	0.068	0.285	0.053	0.132	0.138	0.215
% RSD	4.75	1.71	3.37	3.22	3.03	3.47	3.01	2.75	2.11	0.57	2.35	0.45	1.10	1.16	1.77

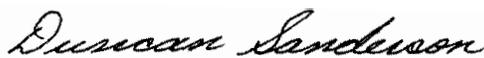
**PARTICIPATING LABORATORIES:** (not in same order as table of assays)

Activation Laboratories, Ancaster, Ontario, Canada	Bureau Veritas, Vancouver, BC, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada	Certimin S.A., Lima, Peru
ALS Canada, North Vancouver, BC, Canada	MS Analytical, Langley, BC, Canada
ALS, Loughrea, Ireland	SGS, Vancouver, BC, Canada
ALS, Lima, Peru	SGS, Lima, Peru
ALS, Perth Australia	SGS, Lakefield, Ontario, Canada
Bureau Veritas, Perth, Australia	TSL Laboratories Ltd., Saskatoon, SK, Canada
Skyline, USA	

**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.