

# CDN Resource Laboratories Ltd.

## REFERENCE MATERIAL: CDN-GS-1AB

Recommended value and the "Between Laboratory" two standard deviations

<b>Gold</b>	<b>1.477 g/t ± 0.072 g/t</b>	<b>Certified value</b>	<b>30g FA / AA or ICP Finish</b>
<b>Arsenic</b>	<b>952 ppm ± 67 ppm</b>	<b>Certified value</b>	<b>Aqua digestion/ Instrumental</b>
<b>Arsenic</b>	<b>999 ppm ± 57 ppm</b>	<b>Certified value</b>	<b>4 Acid digestion/ Instrumental</b>
<b>Mercury</b>	<b>21.0 ppm ± 1.2 ppm</b>	<b>Certified value</b>	<b>Aqua digestion/ Instrumental</b>

**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:** October 24<sup>th</sup>, 2021

### ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-1AB was prepared from material that became available to CDN Resource Laboratories from Nevada Gold Mines, Turquoise Ridge, Nevada.

The Turquoise Ridge deposit is a typical Carlin-type deposit and is characterized by structurally and stratigraphically controlled sediment hosted replacement deposits containing micro-sized gold.

### 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, Instrumental finish.  
**As:** 4 Acid digestion with Instrumental finish  
**As, Hg:** Aqua Regia digestion with Instrumental 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 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.

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" 30g of material. Using a smaller sample weight may result in erratic values.

Results from Round Robin Assaying is available in Appendix 1 and can be provided upon request.

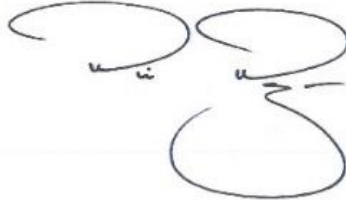
**Quality Assurance and Quality Control Procedures:**

**Screening Test:** After completion of homogenization, three samples, 150g 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.

**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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Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist



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

**APPENDIX I, Notes:**

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 <sub>2</sub>	62.8	Na <sub>2</sub> O	<0.2
Al <sub>2</sub> O <sub>3</sub>	11.3	MgO	2.3
Fe <sub>2</sub> O <sub>3</sub>	5.8	K <sub>2</sub> O	3.1
CaO	3.8	TiO <sub>2</sub>	<1
MnO	<0.1	LOI	8.9
Total S	4	Total C	1.6

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

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

Au results from Lab 14 were removed for failing the t test.

As results, from assaying by 4 Acid digestion from Lab 12 and 13 were removed for failing the t test.

10 Labs were selected for assaying Arsenic and Mercury.

**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
<b>Au (g/t) by Fire Assay, 30g sample size and Instrumental finish</b>															
GS-1AB-1	1.31	1.50	1.40	1.495	1.455	1.500	1.395	1.40	1.512	1.473	1.538	1.46	1.53	1.414	1.457
GS-1AB-2	1.40	1.51	1.44	1.460	1.460	1.505	1.475	1.39	1.505	1.476	1.510	1.41	1.52	1.310	1.453
GS-1AB-3	1.43	1.51	1.43	1.420	1.450	1.500	1.480	1.31	1.488	1.476	1.521	1.45	1.51	1.320	1.485
GS-1AB-4	1.42	1.50	1.46	1.495	1.475	1.495	1.505	1.29	1.494	1.503	1.518	1.56	1.49	1.330	1.495
GS-1AB-5	1.45	1.51	1.44	1.500	1.470	1.510	1.480	1.40	1.506	1.469	1.553	1.57	1.51	1.333	1.500
GS-1AB-6	1.49	1.51	1.47	1.505	1.470	1.500	1.425	1.40	1.500	1.502	1.484	1.44	1.51	1.342	1.495
GS-1AB-7	1.47	1.52	1.47	1.505	1.460	1.495	1.355	1.31	1.493	1.472	1.504	1.41	1.43	1.336	1.509
GS-1AB-8	1.42	1.54	1.44	1.505	1.465	1.480	1.430	1.35	1.481	1.484	1.405	1.47	1.50	1.357	1.487
GS-1AB-9	1.47	1.52	1.48	1.520	1.465	1.495	1.445	1.37	1.478	1.487	1.467	1.43	1.50	1.316	1.506
GS-1AB-10	1.49	1.51	1.45	1.515	1.455	1.490	1.455	1.41	1.513	1.480	1.486	1.43	1.51	1.316	1.475
Mean	1.44	1.51	1.45	1.492	1.463	1.497	1.445	1.36	1.497	1.482	1.499	1.463	1.50	1.337	1.486
Std. Devn.	0.054	0.012	0.022	0.030	0.008	0.008	0.045	0.045	0.012	0.012	0.042	0.057	0.027	0.030	0.019
% RSD	3.749	0.766	1.538	2.012	0.541	0.550	3.119	3.300	0.821	0.809	2.785	3.907	1.816	2.273	1.296
<b>As (ppm) by Aqua Regia and Instrumental finish</b>															
GS-1AB-1	931	979	>250		>250	941	>250			988	921.5	1097	974		
GS-1AB-2	903	956	>250		>250	941	>250			990	953.9	1124	984		
GS-1AB-3	959	956	>250		>250	935	>250			991	922.6	1108	965		
GS-1AB-4	907	939	>250		>250	926	>250			1006	921.6	1122	979		
GS-1AB-5	923	973	>250		>250	930	>250			1009	911.5	1132	968		
GS-1AB-6	933	934	>250		>250	942	>250			999	927.4	1103	982		
GS-1AB-7	972	944	>250		>250	933	>250			1006	931.6	1096	962		
GS-1AB-8	1000	947	>250		>250	930	>250			1019	912.9	1080	986		
GS-1AB-9	1010	973	>250		>250	938	>250			1010	924.8	1109	975		
GS-1AB-10	1000	957	>250		>250	930	>250			1007	926.9	1109	973		
Mean	954	956				935				1003	925.5	1108	975		
Std. Devn.	40.08	15.30				5.66				10.15	11.76	15.29	8.09		
% RSD	4.20	1.60				0.61				1.01	1.27	1.38	0.83		
<b>As (ppm) by 4 Acid digestion and Instrumental finish</b>															
GS-1AB-1	1010	1260	1015		>500	991	964			1014	975.0	949	488		
GS-1AB-2	1020	1250	1020		>500	994	983			998	969.1	882	423		
GS-1AB-3	1020	1260	1025		>500	1005	972			1007	927.4	906	400		
GS-1AB-4	1000	1260	1020		>500	966	951			1032	961.2	902	401		
GS-1AB-5	1010	1230	1035		>500	897	987			1017	952.7	917	432		
GS-1AB-6	1060	1280	1060		>500	984	1005			1014	967.4	902	447		
GS-1AB-7	1040	1200	1050		>500	947	1005			1031	968.0	899	364		
GS-1AB-8	980	1300	1010		>500	963	993			1006	987.9	892	399		
GS-1AB-9	990	1210	1030		>500	1010	968			1011	969.1	922	400		
GS-1AB-10	960	1220	1050		>500	1025	973			1000	970.0	934	396		
Mean	1009	1247	1032			978	980			1013	964.8	911	415		
Std. Devn.	28.85	31.64	16.84			36.99	17.74			11.48	15.91	20.17	34.27		
% RSD	2.86	2.54	1.63			3.78	1.81			1.13	1.65	2.21	8.26		
<b>Hg (ppm) by Aqua Regia and Instrumental finish</b>															
GS-1AB-1	21.2	20.5	20.8		21.4	20.90	21.2			24	21.040	22.34	20.68		
GS-1AB-2	20.8	20.4	21.0		21.3	20.80	21.6			24	21.252	22.39	20.16		
GS-1AB-3	21.2	21.2	22.0		21.7	20.80	20.6			24	21.153	21.64	21.04		
GS-1AB-4	20.0	21.1	21.2		21.8	19.95	21.6			24	21.527	22.65	21.59		
GS-1AB-5	20.6	21.0	20.8		21.2	20.60	23.0			25	20.568	21.92	20.76		
GS-1AB-6	21.1	21.4	20.7		21.5	20.80	21.9			24	20.930	21.98	20.43		
GS-1AB-7	20.1	20.9	20.4		21.4	20.40	22.8			25	20.919	21.90	20.60		
GS-1AB-8	21.0	20.1	20.1		21.6	20.20	20.6			25	20.833	21.72	20.76		
GS-1AB-9	21.5	20.7	20.5		21.6	20.40	20.4			24	21.344	22.36	20.99		
GS-1AB-10	20.3	21.1	20.9		21.7	20.50	22.2			24	20.896	22.91	20.80		
Mean	20.8	20.8	20.8		21.5	20.54	21.6			24	21.046	22.18	20.78		
Std. Devn.	0.5	0.4	0.5		0.2	0.3	0.9			0.5	0.3	0.4	0.4		
% RSD	2.5	1.9	2.5		0.9	1.5	4.2			2.0	1.3	1.9	1.8		