

# CDN Resource Laboratories Ltd.

## REFERENCE MATERIAL: CDN-GS-2Z

Recommended value and the "Between Laboratory" two standard deviations

<b>Gold</b>	<b>2.376 g/t ± 0.087 g/t</b>	<b>Certified value</b>	<b>30g FA / AA or ICP Finish</b>
<b>Arsenic</b>	<b>4555 ppm ± 232 ppm</b>	<b>Certified value</b>	<b>Aqua digestion/ Instrumental</b>
<b>Arsenic</b>	<b>4666 ppm ± 318 ppm</b>	<b>Certified value</b>	<b>4 Acid digestion/ Instrumental</b>
<b>Mercury</b>	<b>25.14 ppm ± 1.51 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-2Z 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.

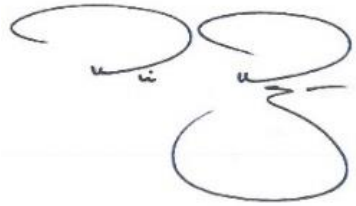
**Quality Assurance and Quality Control Procedures:**

**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



Ali Alizadeh, MSc, MBA, P.Geo.

Geochemist



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>	65.4	Na <sub>2</sub> O	0.05
Al <sub>2</sub> O <sub>3</sub>	6.9	MgO	3.5
Fe <sub>2</sub> O <sub>3</sub>	4.2	K <sub>2</sub> O	1.9
CaO	5.9	TiO <sub>2</sub>	0.4
MnO	0.02	LOI	11
Total S	2.8	Total C	2.6

**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 Labs 8 and 14 were removed for failing the t test.

As results, from assaying by 4 Acid digestion from Lab 2, 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-2Z-1	2.38	2.32	2.36	2.31	2.34	2.18	2.19	2.403	2.355	2.430	2.44	2.38	2.129	2.331	2.38
GS-2Z-2	2.42	2.31	2.40	2.34	2.38	2.33	2.27	2.363	2.341	2.363	2.46	2.39	2.175	2.366	2.42
GS-2Z-3	2.39	2.37	2.41	2.32	2.34	2.33	2.22	2.315	2.311	2.510	2.41	2.45	2.255	2.429	2.39
GS-2Z-4	2.43	2.27	2.40	2.30	2.39	2.35	2.22	2.410	2.382	2.438	2.44	2.41	2.281	2.378	2.43
GS-2Z-5	2.41	2.33	2.38	2.29	2.38	2.37	2.28	2.439	2.316	2.509	2.40	2.43	2.205	2.384	2.41
GS-2Z-6	2.40	2.29	2.39	2.32	2.36	2.4	2.11	2.429	2.338	2.456	2.39	2.41	2.195	2.417	2.40
GS-2Z-7	2.41	2.32	2.39	2.30	2.31	2.43	2.30	2.359	2.377	2.371	2.43	2.39	2.222	2.466	2.41
GS-2Z-8	2.40	2.31	2.37	2.31	2.35	2.37	2.23	2.386	2.327	2.405	2.47	2.36	2.193	2.386	2.40
GS-2Z-9	2.43	2.33	2.40	2.34	2.38	2.46	2.41	2.387	2.339	2.411	2.41	2.42	2.187	2.394	2.43
GS-2Z-10	2.42	2.33	2.38	2.32	2.41	2.36	2.20	2.441	2.370	2.319	2.48	2.35	2.173	2.349	2.42
Mean	2.41	2.32	2.39	2.32	2.36	2.36	2.24	2.393	2.346	2.421	2.433	2.40	2.202	2.390	2.41
Std. Devn.	0.017	0.027	0.015	0.016	0.030	0.075	0.079	0.040	0.025	0.061	0.031	0.031	0.043	0.039	0.017
% RSD	0.690	1.147	0.649	0.713	1.249	3.191	3.542	1.667	1.057	2.534	1.256	1.295	1.957	1.649	0.690
<b>As (ppm) by Aqua Regia and Instrumental finish</b>															
GS-2Z-1	4740	4410	>250		>250	4470	>250			4675	4492.2	4568	4680		
GS-2Z-2	4750	4400	>250		>250	4500	>250			4651	4446.0	4668	4630		
GS-2Z-3	4580	4320	>250		>250	4490	>250			4655	4400.6	4623	4570		
GS-2Z-4	4560	4350	>250		>250	4490	>250			4665	4496.3	4747	4590		
GS-2Z-5	4510	4430	>250		>250	4520	>250			4657	4450.3	4822	4560		
GS-2Z-6	4550	4350	>250		>250	4490	>250			4703	4414.5	4755	4700		
GS-2Z-7	4610	4500	>250		>250	4480	>250			4655	4446.2	4692	4650		
GS-2Z-8	4530	4250	>250		>250	4430	>250			4658	4447.2	4688	4560		
GS-2Z-9	4440	4280	>250		>250	4450	>250			4711	4600.3	4586	4670		
GS-2Z-10	4410	4410	>250		>250	4400	>250			4702	4497.9	4721	4520		
Mean	4568	4370				4472				4673	4469.2	4687	4613		
Std. Devn.	111.14	74.83				35.84				23.25	56.65	79.20	61.11		
% RSD	2.43	1.71				0.80				0.50	1.27	1.69	1.32		
<b>As (ppm) by 4 Acid digestion and Instrumental finish</b>															
GS-2Z-1	4780	5620	4540		>500	4520	4450			4758	4522.1	3918	1310		
GS-2Z-2	4940	5800	4800		>500	4610	4490			4739	4601.8	3921	2220		
GS-2Z-3	4910	5690	4630		>500	4580	4390			4758	4536.2	4124	1840		
GS-2Z-4	4880	5670	4850		>500	4860	4380			4730	4585.2	3962	1330		
GS-2Z-5	4830	5680	4840		>500	4580	4440			4775	4493.2	4024	1550		
GS-2Z-6	4830	5840	4790		>500	4630	4540			4784	4455.4	3968	2020		
GS-2Z-7	4870	5960	4830		>500	4610	4460			4796	4562.0	4032	1970		
GS-2Z-8	5050	5690	4820		>500	4850	4430			4798	4537.4	3893	1470		
GS-2Z-9	4800	5680	4710		>500	4770	4380			4797	4477.0	3980	1280		
GS-2Z-10	4830	5640	4770		>500	4600	4440			4714	4627.0	3971	1330		
Mean	4872	5727	4758			4661	4440			4765	4539.7	3979	1632		
Std. Devn.	79.415	106.359	101.850			120.227	50.332			30.065	55.350	67.342	349.088		
% RSD	1.630	1.857	2.141			2.579	1.134			0.631	1.219	1.692	21.390		
<b>Hg (ppm) by Aqua Regia and Instrumental finish</b>															
GS-2Z-1	25.2	25.4	24.1			25.7	26.0			27	25.295	25.02	24.25		
GS-2Z-2	25.0	25.1	24.8			26.0	26.1			27	24.952	23.98	25.35		
GS-2Z-3	25.9	24.5	24.2			26.0	25.9			27	24.798	24.68	24.59		
GS-2Z-4	24.3	24.7	24.9			25.3	26.5			27	24.834	25.13	24.08		
GS-2Z-5	24.1	23.7	24.7			25.6	29.5			28	25.511	25.93	24.47		
GS-2Z-6	24.3	24.4	24.3			25.3	24.6			26	25.256	25.12	24.79		
GS-2Z-7	23.6	25.2	25.0			25.4	28.0			28	25.177	25.18	24.67		
GS-2Z-8	25.3	24.3	24.6			25.0	26.4			28	25.318	24.97	24.55		
GS-2Z-9	25.3	24.6	24.4			25.3	27.5			29	26.107	24.28	24.32		
GS-2Z-10	24.7	24.5	25.0			25.0	26.8			29	25.220	25.04	24.75		
Mean	24.8	24.6	24.6			25.5	26.7			28	25.247	24.9	24.58		
Std. Devn.	0.695	0.495	0.333			0.360	1.342			0.966	0.377	0.532	0.352		
% RSD	2.804	2.008	1.355			1.413	5.019			3.500	1.495	2.134	1.431		