

# CDN Resource Laboratories Ltd.

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

## REFERENCE MATERIAL: CDN-GS-P3A

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.338 \pm 0.022$  g/t (30g Fire Assay / ICP)**

**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 16, 2010

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P3A was prepared using ore supplied by Barrick Gold Inc. from their Bald Mountain Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Battle Mountain-Eureka Trend in Northern Nevada, USA. The material is from breccias near the contact between the Mississippian Pilot Shale and the underlying Devonian Guilmette formation. Near the center of the system, micron-sized native Au occurs with base metal sulfides and sulfosalts. In peripheral deposits and in later stages of mineralization, Au is typically submicron in size and resides in pyrite or arsenopyrite.

### **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 14 commercial laboratories for round robin assaying. Round robin results are displayed below:

|            | 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 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sample     | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t |
| GS-P3A-1   | 0.349  | 0.354  | 0.330  | 0.32   | 0.348  | 0.335  | 0.340  | 0.276  | 0.291  | 0.36   | 0.36   | 0.334  | 0.37   | 0.335  |
| GS-P3A-2   | 0.317  | 0.346  | 0.320  | 0.32   | 0.338  | 0.349  | 0.340  | 0.280  | 0.284  | 0.34   | 0.34   | 0.333  | 0.35   | 0.325  |
| GS-P3A-3   | 0.326  | 0.345  | 0.351  | 0.32   | 0.340  | 0.338  | 0.350  | 0.295  | 0.272  | 0.34   | 0.34   | 0.331  | 0.34   | 0.327  |
| GS-P3A-4   | 0.332  | 0.336  | 0.354  | 0.31   | 0.342  | 0.340  | 0.340  | 0.273  | 0.289  | 0.35   | 0.34   | 0.335  | 0.35   | 0.326  |
| GS-P3A-5   | 0.336  | 0.332  | 0.333  | 0.31   | 0.340  | 0.347  | 0.330  | 0.289  | 0.274  | 0.35   | 0.32   | 0.340  | 0.33   | 0.343  |
| GS-P3A-6   | 0.338  | 0.330  | 0.335  | 0.34   | 0.337  | 0.341  | 0.340  | 0.275  | 0.291  | 0.36   | 0.36   | 0.326  | 0.37   | 0.294  |
| GS-P3A-7   | 0.332  | 0.339  | 0.329  | 0.32   | 0.335  | 0.345  | 0.340  | 0.289  | 0.268  | 0.37   | 0.33   | 0.341  | 0.33   | 0.292  |
| GS-P3A-8   | 0.350  | 0.349  | 0.328  | 0.30   | 0.341  | 0.354  | 0.350  | 0.294  | 0.285  | 0.35   | 0.34   | 0.340  | 0.35   | 0.338  |
| GS-P3A-9   | 0.330  | 0.342  | 0.330  | 0.30   | 0.333  | 0.350  | 0.350  | 0.286  | 0.321  | 0.35   | 0.33   | 0.333  | 0.35   | 0.295  |
| GS-P3A-10  | 0.346  | 0.328  | 0.341  | 0.31   | 0.328  | 0.349  | 0.340  | 0.286  | 0.311  | 0.35   | 0.34   | 0.337  | 0.36   | 0.315  |
| Mean       | 0.336  | 0.340  | 0.335  | 0.314  | 0.338  | 0.345  | 0.342  | 0.284  | 0.289  | 0.352  | 0.341  | 0.335  | 0.350  | 0.319  |
| Std. Dev'n | 0.0105 | 0.0086 | 0.0106 | 0.0108 | 0.0055 | 0.0061 | 0.0063 | 0.0079 | 0.0167 | 0.0092 | 0.0117 | 0.0047 | 0.0141 | 0.0191 |
| %RSD       | 3.14   | 2.53   | 3.17   | 3.45   | 1.61   | 1.76   | 1.85   | 2.77   | 5.79   | 2.61   | 3.44   | 1.39   | 4.04   | 5.99   |

*Note: Data from both Labs 8 and 9 was removed for failing the t test.*

### APPROXIMATE CHEMICAL COMPOSITION:

|                                | Percent |                   | Percent |    | ppm |
|--------------------------------|---------|-------------------|---------|----|-----|
| SiO <sub>2</sub>               | 60.9    | Na <sub>2</sub> O | 0.5     | As | 560 |
| Al <sub>2</sub> O <sub>3</sub> | 11.2    | MgO               | 0.2     | Sb | 50  |
| Fe <sub>2</sub> O <sub>3</sub> | 9.1     | K <sub>2</sub> O  | 1.7     |    |     |
| CaO                            | 0.6     | TiO <sub>2</sub>  | 0.9     |    |     |
| MnO                            | < 0.1   | LOI               | 13.6    |    |     |
| Total S                        | 3.2     | Total C           | 0.1     |    |     |
| Sulphide S                     | 2.8     | Inorganic C       | 0.1     |    |     |

**REFERENCE MATERIAL: CDN-GS-P3A**

**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.


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

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
AGAT Laboratories Ltd., Mississauga, Ontario, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
ALS Chemex, Nevada, USA  
American Assay Laboratories, Nevada, USA  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Genalysis Lab Services, Australia  
Labtium Inc., Finland  
OMAC Laboratories Ltd., Ireland  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia


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.