

CDN Resource Laboratories Ltd.

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

REFERENCE MATERIAL: CDN-CGS-27

Recommended values and the "Between Lab" Two Standard Deviations

Copper concentration: 0.379 ± 0.015 %

Gold concentration: 0.432 ± 0.046 g/t

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: April 5, 2011

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 laboratories for round robin assaying.

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-CGS-27 was prepared using a North American calc-alkalic copper-gold-molybdenum porphyry ore. It is derived from altered granodiorite, mafic to intermediate volcanic and volcanoclastic sedimentary rocks. Mineralization is principally pyrite, chalcopyrite and molybdenite that occurs in veins, stockworks and disseminations.

Approximate chemical composition is as follows:

| | Percent | | Percent |
|--------------------------------|---------|------------------|---------|
| SiO ₂ | 58.5 | MgO | 1.7 |
| Al ₂ O ₃ | 15.3 | K ₂ O | 7.3 |
| Fe ₂ O ₃ | 6.9 | TiO ₂ | 0.8 |
| CaO | 0.6 | LOI | 4.0 |
| Na ₂ O | 1.9 | S | 2.3 |

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 means and standard deviations 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.

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Results from round-robin assaying:

Assay Procedures: **Au:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).
 Cu: 4-acid digestion, AA or ICP 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 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 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 |
| CGS-27-1 | 0.427 | 0.443 | 0.392 | 0.455 | 0.38 | 0.423 | 0.383 | 0.445 | 0.455 | 0.44 | 0.408 | 0.435 | 0.483 | 0.433 |
| CGS-27-2 | 0.442 | 0.407 | 0.403 | 0.424 | 0.37 | 0.420 | 0.374 | 0.465 | 0.471 | 0.42 | 0.455 | 0.447 | 0.470 | 0.431 |
| CGS-27-3 | 0.478 | 0.446 | 0.411 | 0.414 | 0.44 | 0.434 | 0.401 | 0.420 | 0.432 | 0.44 | 0.439 | 0.415 | 0.485 | 0.381 |
| CGS-27-4 | 0.489 | 0.424 | 0.401 | 0.410 | 0.37 | 0.462 | 0.407 | 0.435 | 0.460 | 0.44 | 0.463 | 0.459 | 0.519 | 0.428 |
| CGS-27-5 | 0.414 | 0.407 | 0.404 | 0.420 | 0.43 | 0.462 | 0.360 | 0.405 | 0.452 | 0.46 | 0.419 | 0.423 | 0.505 | 0.412 |
| CGS-27-6 | 0.458 | 0.431 | 0.404 | 0.457 | 0.45 | 0.447 | 0.408 | 0.395 | 0.447 | 0.46 | 0.470 | 0.455 | 0.456 | 0.378 |
| CGS-27-7 | 0.467 | 0.458 | 0.422 | 0.432 | 0.39 | 0.424 | 0.363 | 0.400 | 0.446 | 0.46 | 0.359 | 0.426 | 0.498 | 0.387 |
| CGS-27-8 | 0.450 | 0.408 | 0.418 | 0.411 | 0.42 | 0.452 | 0.401 | 0.465 | 0.471 | 0.47 | 0.455 | 0.442 | 0.493 | 0.441 |
| CGS-27-9 | 0.422 | 0.415 | 0.412 | 0.404 | 0.42 | 0.435 | 0.357 | 0.435 | 0.464 | 0.44 | 0.470 | 0.440 | 0.497 | 0.404 |
| CGS-27-10 | 0.425 | 0.401 | 0.392 | 0.450 | 0.43 | 0.430 | 0.367 | 0.410 | 0.412 | 0.45 | 0.451 | 0.442 | 0.457 | 0.387 |
| Mean | 0.447 | 0.424 | 0.406 | 0.428 | 0.410 | 0.439 | 0.382 | 0.428 | 0.451 | 0.448 | 0.439 | 0.438 | 0.486 | 0.408 |
| Std. Dev'n | 0.0256 | 0.0197 | 0.0100 | 0.0198 | 0.0298 | 0.0158 | 0.0205 | 0.0256 | 0.0182 | 0.0148 | 0.0348 | 0.0140 | 0.0205 | 0.0240 |
| %RSD | 5.71 | 4.65 | 2.46 | 4.63 | 7.27 | 3.61 | 5.37 | 6.00 | 4.04 | 3.29 | 7.93 | 3.18 | 4.21 | 5.88 |
| | | | | | | | | | | | | | | |
| | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % | Cu % |
| CGS-27-1 | 0.373 | 0.375 | 0.391 | 0.374 | 0.37 | 0.376 | 0.359 | 0.39 | 0.381 | 0.363 | 0.373 | 0.370 | 0.384 | 0.383 |
| CGS-27-2 | 0.382 | 0.378 | 0.386 | 0.378 | 0.38 | 0.371 | 0.368 | 0.40 | 0.385 | 0.368 | 0.378 | 0.377 | 0.388 | 0.382 |
| CGS-27-3 | 0.369 | 0.376 | 0.393 | 0.381 | 0.38 | 0.375 | 0.374 | 0.40 | 0.385 | 0.372 | 0.372 | 0.368 | 0.387 | 0.382 |
| CGS-27-4 | 0.376 | 0.375 | 0.395 | 0.377 | 0.37 | 0.380 | 0.370 | 0.40 | 0.379 | 0.371 | 0.377 | 0.376 | 0.387 | 0.386 |
| CGS-27-5 | 0.379 | 0.378 | 0.393 | 0.378 | 0.39 | 0.377 | 0.371 | 0.40 | 0.383 | 0.377 | 0.373 | 0.380 | 0.387 | 0.381 |
| CGS-27-6 | 0.374 | 0.379 | 0.388 | 0.375 | 0.38 | 0.377 | 0.362 | 0.41 | 0.386 | 0.367 | 0.370 | 0.377 | 0.386 | 0.389 |
| CGS-27-7 | 0.383 | 0.383 | 0.395 | 0.374 | 0.38 | 0.373 | 0.366 | 0.40 | 0.382 | 0.372 | 0.372 | 0.371 | 0.382 | 0.387 |
| CGS-27-8 | 0.375 | 0.378 | 0.392 | 0.375 | 0.37 | 0.383 | 0.377 | 0.40 | 0.382 | 0.374 | 0.374 | 0.358 | 0.380 | 0.382 |
| CGS-27-9 | 0.374 | 0.377 | 0.390 | 0.377 | 0.38 | 0.380 | 0.370 | 0.40 | 0.387 | 0.364 | 0.362 | 0.372 | 0.386 | 0.384 |
| CGS-27-10 | 0.378 | 0.379 | 0.388 | 0.379 | 0.39 | 0.371 | 0.371 | 0.40 | 0.384 | 0.373 | 0.376 | 0.361 | 0.386 | 0.383 |
| Mean | 0.376 | 0.378 | 0.391 | 0.377 | 0.379 | 0.376 | 0.369 | 0.399 | 0.383 | 0.370 | 0.373 | 0.371 | 0.385 | 0.384 |
| Std. Dev'n | 0.0043 | 0.0023 | 0.0031 | 0.0023 | 0.0074 | 0.0041 | 0.0053 | 0.0039 | 0.0025 | 0.0045 | 0.0045 | 0.0071 | 0.0025 | 0.0028 |
| %RSD | 1.13 | 0.62 | 0.79 | 0.61 | 1.95 | 1.08 | 1.44 | 0.99 | 0.64 | 1.21 | 1.21 | 1.92 | 0.66 | 0.72 |

Note: Au data from Labs 7 and 13 was excluded for failing the t test.

STANDARD REFERENCE MATERIAL CDN-CGS-27

Participating Laboratories:

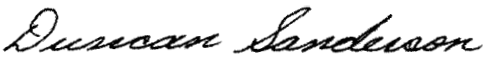
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Actlabs, Ancaster, Ontario, Canada
Actlabs, Thunder Bay, Ontario, Canada
ALS Chemex Laboratories, North Vancouver, B.C., Canada
Alaska Assay Laboratories, Alaska, USA
ASA Argentina, Mendoza, Argentina
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada
Genalysis Laboratory Services Pty. Ltd., Australia
Inspectorate, Richmond, B.C., Canada
OMAC Laboratories Ltd., Ireland
SGS, Lima, Peru
Skyline Assayers & Laboratories, Arizona, USA
TSL Laboratories, Saskatoon, Canada
Ultra Trace Analytical Laboratories, Australia

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This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no 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.