

CDN Resource Laboratories Ltd.

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REFERENCE MATERIAL: CDN-GS-P4J

Recommended value and the "Between Laboratory" two standard deviations

Gold	0.479 g/t ± 0.049 g/t	Certified value	30g, FA / Instrumental
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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, PhD, P Geo
DATE OF CERTIFICATION: September 25th, 2019

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-P4J was prepared by combining 4250 kg of a low-grade Au, Cu ore blended with 12 kg of high-grade gold ore supplied by Teuton Resources from their Clone gold property in B.C., Canada.

Low-grade Au ore was provided from a copper-gold porphyry project, located in south-central British Columbia. The deposit represents a large regional depositional belt commonly dominated by alkalic volcanic units and related volcanoclastic lithologies and hosts both alkaline and calc-alkaline porphyry copper+/-gold+/-molybdenum deposits.

In this large regional depositional belt alkali-porphyry deposits typically are hosted in basalts and andesitic flows, fragmental rocks and alkalic intrusive complexes. They are generally mineralized with gold and copper and do not have large quantities of pyrite. Sulfide mineralization is developed adjacent to and within concentrically-zoned alkalic plutons.

Mineralization of Clone gold property is localized within highly silicified semi-massive to massive specular hematite. Gold occurs as fine disseminations and is associated with the oxide mineralization. The major lithology is light grey to green andesitic pyroclastic intercalated with fine grained to aphanitic andesite.

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 blender. Splits were taken and sent to 14 commercial laboratories for round robin assaying.

ASSAY PROCEDURES:

Au: 30 gr Fire assay pre-concentration, Instrumental finish.

Whole rock analysis and 30 element ICP analysis (4-acid digestion) were also conducted on 10 samples.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO ₂	56.9	Na ₂ O	3.5
Al ₂ O ₃	15.5	MgO	3.0
Fe ₂ O ₃	6.5	K ₂ O	1.9
CaO	6.6	TiO ₂	0.5
MnO	0.1	LOI	4.7
Total S	0.6	Total C	0.9

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:

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
	Au (g/t) by Fire Assay, 30g sample size and Instrumental finish													
GS-P4J-1	0.465	0.506	0.543	0.486	0.465	0.462	0.498	0.440	0.474	0.506	0.515	0.458	0.445	0.432
GS-P4J-2	0.475	0.476	0.500	0.534	0.475	0.489	0.477	0.458	0.476	0.493	0.465	0.481	0.548	0.492
GS-P4J-3	0.508	0.487	0.503	0.516	0.508	0.531	0.495	0.456	0.476	0.520	0.484	0.458	0.527	0.456
GS-P4J-4	0.488	0.546	0.498	0.525	0.488	0.495	0.498	0.452	0.447	0.516	0.456	0.471	0.488	0.455
GS-P4J-5	0.450	0.488	0.489	0.485	0.450	0.491	0.476	0.459	0.489	0.501	0.451	0.492	0.501	0.501
GS-P4J-6	0.501	0.435	0.445	0.464	0.501	0.473	0.493	0.443	0.473	0.488	0.499	0.484	0.481	0.482
GS-P4J-7	0.497	0.564	0.498	0.436	0.497	0.462	0.496	0.454	0.470	0.496	0.472	0.477	0.447	0.465
GS-P4J-8	0.485	0.454	0.494	0.431	0.485	0.449	0.479	0.476	0.465	0.502	0.527	0.485	0.503	0.547
GS-P4J-9	0.470	0.467	0.531	0.484	0.470	0.477	0.482	0.440	0.481	0.524	0.541	0.426	0.540	0.533
GS-P4J-10	0.519	0.465	0.447	0.536	0.519	0.485	0.476	0.443	0.450	0.477	0.524	0.474	0.485	0.533
GS-P4J-11	0.480	0.479	0.480	0.435	0.480	0.461	0.490	0.461	0.452	0.496	0.458	0.496	0.476	0.510
GS-P4J-12	0.473	0.506	0.441	0.456	0.473	0.431	0.497	0.456	0.478	0.474	0.434	0.441	0.464	0.502
GS-P4J-13	0.506	0.445	0.482	0.523	0.506	0.460	0.477	0.446	0.465	0.471	0.445	0.421	0.499	0.443
GS-P4J-14	0.469	0.477	0.483	0.485	0.469	0.469	0.482	0.457	0.495	0.521	0.448	0.468	0.492	0.471
GS-P4J-15	0.463	0.569	0.457	0.542	0.463	0.414	0.478	0.464	0.440	0.483	0.516	0.469	0.541	0.477
Mean	0.483	0.491	0.486	0.489	0.483	0.470	0.486	0.454	0.469	0.498	0.482	0.467	0.496	0.487
Std. Devn.	0.020	0.041	0.030	0.039	0.020	0.028	0.009	0.010	0.016	0.017	0.035	0.022	0.032	0.034
% RSD	4.04	8.32	6.09	7.93	4.04	5.92	1.87	2.20	3.35	3.48	7.27	4.82	6.50	7.08


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

ALS Perth, Australia	SGS, Lima, Peru
ALS Reno, Nevada, USA	SGS, Lakefield, Ontario, Canada
ALS Canada, North Vancouver, BC, Canada	SGS, Vancouver, BC, Canada
ALS, Loughrea, Ireland	Skyline Assayers & Laboratories, AZ, USA
ALS, Lima, Peru	MS Analytical, Langley, BC, Canada
Bureau Veritas, Perth, Australia	TSL Laboratories Ltd., Saskatoon, SK, Canada
Bureau Veritas, Vancouver, BC, Canada	
Certimin S.A., Lima, Peru	

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.