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Certificate of Participation

This is to certify that

Zarazma Minerals Studies Company

has participated in the April 2011
Geostats Survey of International Laboratories

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Managing Director

Geostats Laboratory Survey
April 2011

Prepared for
Zarazma Minerals Studies Company

Confidential

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To the reader,

This survey of laboratories undertaken by Geostats is performed as a service to both the Mining Industry and the Analytical Industry. It is envisaged that it can be used as a tool for the maintenance of high standards in both industries.

The report to the Mining Houses identifies most commercial laboratories and should be treated as confidential information. Some commercial facilities prefer to pay for the inclusion of their sites and these are not identified to the Mining Houses. This report should not be circulated outside of the Client Company or reproduced for the benefit of other mining groups.

It is not the intent of this survey to provide marketing tools for the analytical industry. A laboratory report is available which identifies only the laboratory or group requesting the report. This allows the laboratory to assess their performance in relation to the rest of the analytical industry. All the laboratories identified have taken advantage of this report and included it as part of their ongoing quality control procedures. Participation in these surveys is an indication of the laboratory's interest in quality and should be regarded as a positive sign regardless of the outcome.

Many thanks to both the laboratories and the Mining Houses for their ongoing support of this survey.

Stuart Romero
Operations Manager
Geostats Pty Ltd
20th May 2011

Geostats Pty Ltd, O'Connor, Western Australia.
Listing of Participating Laboratories for Round Robin - April 2011

Western Australia

ACTLABS PER
 ALSM KAL
 ALSM PERTH
 AMMTEC
 AURUM BECK
 BV KAL
 BV ULTRA TRACE
 GEN PER
 KALGOORLIE AL
 LABWEST
 LEONORA AL
 SAR LAB
 SGS NEWBURN
 SGS ORETEST

New South Wales

ALSM ORANGE
 SGS WYALONG

Queensland

ALSM BRIS
 ALSM TVL
 BV MT ISA
 GEN TOWNSVILLE
 SGS TOWNSVILLE

South Australia

BV ADL
 GEN ADEL

Argentina

STEWART MENDOZA

Brazil

SGS LF BELO HOR

Burkina Faso

ALSM OUAGADOUGOU
 SGS OUAGADOUGOU

Canada

ACCURASSAY
 ACME VAN
 ACTLABS CAN
 ACTLABS TB
 AGAT ONTARIO
 ALSM QUEBEC
 ALSM VAN
 BECQUEREL-NAA
 BOURLAMAQUE
 ECO TECH CAN
 SGS LAKEFIELD
 SGS TORONTO
 TSL SASKATCHEWAN

Chile

ACME CHILE
 ALSM LASERENA
 VIGALAB CHILE

China

ALSM CHINA
 ITS BEIJING

Finland

LABTIUM FIN

Ghana

ALSM GHANA
 ITS GHANA
 SGS TARKWA

India

SHIVA INDIA

Indonesia

GEOSERVICES IND
 ITS GOSOWONG
 ITS INDO

Iran

ZARAZMA

Ireland

OMAC

Kyrgyz Republic

STEWART KYRGYZ

Laos

ALSM LAOS

Mali

ALSM MALI
 SGS KAYES

Mexico

ACTLABS MEXICO

Mongolia

ACTLABS MONGOLIA
 STEWART MONGOLIA

New Zealand

BV NZ MACRAES
 BV NZ REEFTON

Papua New Guinea

ITS MOROBE

Peru

ACTLABS LIMA
 ALSM LIMA
 CIMM PERU
 INSPECTORATE PERU
 SGS LIMA

Phillippines

McPHAR

Romania

ALSM ROMANIA

Russia

ALSM CHITA
 STEWART MOSCOW
 VSEGEI RUSSIA

South Africa

AR JOBURG
 AR BMP
 ALSM JOBURG
 MINTEK SA
 PERF PLR
 PERF PLW
 SCI SER
 SET POINT SA
 SGS JOBURG

Suriname

FILAB SURINAME

Tanzania

TMAA TANZANIA

United States of America

ALASKA AL
 ALSM RENO
 AALLABS
 FLORIN RENO
 INSPECTORATE NEV
 MCCLELLAND NEV
 SKYLINE ARIZONA

Venezuela

ACTLABS VENE
 PHOENIX EL CALLAO
 PHOENIX LA CAMORRA

Zimbabwe

ANTECH

Mine Laboratories

AG GHANA ASSA
 AG GHANA CHEM
 AG GHANA ENVI
 ANATOLIA TURK
 AVOCET IND
 BALD MOUNT
 BARRICK VAN
 BHP CANNINGTON
 BHP OLYMPIC
 BULYANHULU TANZ
 BUZWAGI
 CHATREE THAI
 CHELOPECH MINE
 CHEM LAB XSTR
 CORTEZ MINE
 DARLOT MINE
 FREEPOR IND
 GC GUATEMALA
 GEITA TANZ
 GOLD FIELDS CHARL
 GOLD SUNLIGHT MINE
 GOLDEN GROVE
 GOLDSTRIKE
 GRANITES
 HEMLO MINE
 IRGIREDMET RUSSIA
 KOZAGOLD TURKEY
 KUMTOR KYRGYZ
 LAGUNAS MINE
 LIHIR
 MARIGOLD MINES
 MIDROC BULLUN
 MIDROC LEGADEMBI
 MMG CENTURY
 MTA TURKEY
 MUPANE BOTS
 MUSSELWHITE
 NEW AHAFO GHANA
 NEW GC
 NEW LONE
 NEW MET SER
 NEW PERU
 NEW TWIN CM
 NEWCREST TELFER
 NIFTY CU OP
 NORTH MARA
 OMI URUGUAY
 PENJOM MALAYSIA
 PIERINA MINE
 PLUTONIC MINE
 PORGERA
 ROUND MOUNT MINE
 SADIOLA MALI
 SEPON LAOS
 SGM EGYPT
 SGS CHITA
 SGS DIKULUSHI
 SGS GOLDEN PRIDE
 SGS JUNDEE
 SGS MAURITANIA
 SGS MWANZA
 SGS SABODALA
 SGS SIGUIRI
 TGM BOROKO
 TOMS RUSSIA
 TSNIGRI RUSSIA
 TULAWAKA TANZ
 TUPRAG TURK
 TURQ RIDGE MINE
 VAAL RIVER SA
 VELADERO MINE
 WAY LINGGO

Anglo Research, Crown Mines - AS
 Anglo Research, Crown Mines - BMP
 ALS Minerals - Johannesburg
 Mintek Analytical Services Division
 Performance Laboratories (PLR)
 Performance Laboratories (PLW)
 Scientific Services Pty Ltd
 Set Point Laboratories
 SGS South Africa Booyens

Filab Suriname

Tanzania Minerals Audit Agency (TMAA)

AHK Geochem
 ALS Minerals - Reno
 American Assay Laboratories
 Florin Analytical Services
 Gen. Mgr. Analytical Services
 McClelland Laboratories, Inc.
 Skyline Assayers & Laboratories

Actlabs - Venezuela
 Phoenix Corporacion C.A.
 Phoenix Corporacion C.A.

Antech Laboratories

AngloGold Ashanti - Assay Lab
 AngloGold Ashanti - Chemical Lab
 AngloGold Ashanti - Environmental Lab
 ANAGOLD MADENCILIK SAN VE TIC.A.S.
 PT. Avocet Bolaang Mongondow
 Bald Mountain Mine Assay Lab
 Barrick Technology Centre
 BHP Billiton Cannington
 BHP Billiton
 Bulyanhulu Mine Assay Lab
 Pangea Minerals Ltd
 Chatree Gold Mine Laboratory
 Chelopech Mine Laboratory
 Xstrata Chemical Laboratory
 Cortez JV Mine Assay Lab
 Darlot Gold Mine Assay Lab
 74 QC Laboratory
 Marlin Mine
 Geita Gold Mine Laboratory
 Gold Fields West Wits Analytical Laboratories
 Golden Sunlight Mine Assay Lab
 MMG Golden Grove
 Barrick Analytical Laboratory
 Granites Gold Mine
 Williams Operating Corporation
 IRGIREDMET JSC
 Koza Gold Mine Laboratory
 Kumtor Kyrgyz
 Minera Barrick Misquichilca - Unidad Lagunas Norte
 Lihir Gold - Minesite Laboratory
 Marigold Mining Company - Assay Lab
 Midroc Gold Mine PLC - Bullun
 Midroc Gold Mine PLC - Legadembi
 MMG Century Mine
 MTA Genel Mudurlugu
 Mupane Gold Project Lab
 Musselwhite Mine Laboratory
 Ahafo Mine Site Laboratory
 Newmont Mining Corporation - Carlin Assay Lab
 Newmont - Lone Tree Mine
 Newmont Metallurgical Services
 Minera Yanacocha SRL - Newmont Lab (Peru)
 Newmont - Twin Creek Mine
 Newcrest Mining Limited - Telfer Gold Mine Lab
 Nifty Minesite Laboratory
 North Mara Minesite Laboratory
 Triselco S.A Laboratory
 Penjom Gold Mine
 Minera Barrick Misquichilca - Unidad Pierina
 Barrick Gold Plutonic - Laboratory
 Porgera Gold Mine Laboratory
 Round Mountain Gold Assay Lab
 Sadiola Mine Site Laboratory
 Lane Xang Minerals
 Sukari Gold Mines
 SGS Chita
 Mawson West / Anvil Mining Congo
 Golden Pride Mine Site Lab
 SGS Jundee
 SGS Mineral Services Mauritania
 African Assay Laboratories (Tanzania) Ltd
 SGS Sabodala
 SGS Mineral Services (Guinee) SARL
 TGM Mill Assay Laboratory
 TOMS-Irkutsk
 Tsnigri Assay Laboratory
 Tulawaka Mine Assay Lab
 Tuprag Kisladag Gold Mine
 Turquoise Ridge JV Mine Assay Lab
 Vaal River Chemical Laboratory
 Veladero Project Assay Lab
 PT. Geoservices Ltd - Way Linggo

REPORT ON LABORATORY SURVEY – April 2011

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 170 laboratories was conducted during April 2011. The results of this survey are a measure of the ability of a laboratory to accurately analyse a pre-prepared pulp.

The ability of a laboratory to crush, split and prepare the sample without contamination is not measured by this survey. Knowledge of sampling machinery and the ability to design efficient flow systems with in-built homogeneity checks is required in order to develop confidence in the sample preparation.

The reference samples submitted to the laboratories consisted of:

- 10 gold standards
- 5 low level gold standards
- 6 gold and silver on carbon standards
- 10 geochemical base metal standards
- 6 ore-grade base metal standards
- 10 sulphur standards

Companies operating more than one laboratory have received extra filler samples, which are not used in the calculations. The Geostats numbering system makes it extremely difficult for any cross collation of results from one laboratory to the next. This provides a level playing field for all laboratories, whether they are sole operators or members of a large laboratory group.

We use a double entry system to build an accurate database. Two individuals enter all the data and when complete these two files are cross-checked and the source data is consulted to rectify any errors. The mean values used for calculations in this study are checked visually by preparing histograms. Outliers are removed and the remaining population distributions are tested for normality. All outliers are checked back to the original assay report for a third and final time.

GOLD SAMPLES

Three lots of gold samples were submitted to the laboratories, one lot for fire assay, one for aqua regia digest (or similar) and one for low-level (<200 ppb) gold. Becquerel Canada performed Neutron Activation Analysis on all samples, reporting a gold + 33 element analysis which has been included at the end of this report. Becquerel Canada can be contacted through Steven Simpson at ssimpson@becquerellabs.com

GOLD AND SILVER ON CARBON SAMPLES

Six gold and silver on carbon standards were included in this survey, both loaded and barren. The method of analysis for these samples was left up to the individual laboratories.

GEOCHEM BASE METAL SAMPLES

The base metal samples were analysed for copper, lead, zinc, nickel, arsenic, silver and cobalt. The method of analysis for base metal samples was left to the discretion of the laboratory manager. Becquerel Canada performed Neutron Activation Analysis and some mine laboratories performed XRF analyses. Digest levels were read on ICP or AAS. Methods are listed in the results page for the respective analyte.

ORE GRADE BASE METAL SAMPLES

Six ore-grade and concentrate samples are included in the survey. These are assayed primarily for copper, lead, zinc, nickel, silver and sulphur. Other elements are reported but not in sufficient numbers for inclusion in the report. These high-grade materials are analysed at the chemist's discretion but almost always using ore-grade techniques. Some use classical analyses while others use XRF or other methods. However, some of these products have, for example, high lead but low copper and the method for copper analysis may be inappropriate for low levels. Owing to this characteristic, only higher grade analyses are plotted in the related charts.

SULPHUR SAMPLES

Ten sulphur and carbon standards were prepared for the survey. These ten new standards are a good mix of values with sulphur values up to 30% and carbon values up to 3%.

All the standards used in this survey are available for purchase.

RESULTS

The results of the analyses are presented in three forms:

1. A table showing values as reported from the laboratories. These are presented in columns according to their respective sample identifiers, with each result's standardised Z value also displayed. Outliers are highlighted and assigned a Z value of 3.00 or -3.00. General statistics are listed at the top of each table.
2. Bar chart for each element showing the sum of absolute standardised values divided by the count of absolute standardised values.
3. Bar chart for the mean of standardised values.

EXAMINATION OF RESULTS - METHODOLOGY

1. Double entry of all data and validation by cross-checking. Confirm any anomalous values.
2. Produce basic statistics on results, including:
 - a. count
 - b. mean
 - c. median
 - d. standard deviation
 - e. minimum
 - f. maximum
 - g. error (95% Confidence Interval)
 - h. percentage error of mean (error as a percentage of the calculated mean).
3. Produce summary statistics and assay sheet.
4. Run outlier macro to find obvious outlier values.
5. Generate 'Z' intervals for remaining data (from calculated mean).
6. Check that median and mean are similar to verify a normal distribution.
7. Standardise remaining values i.e. subtract the mean and divide by the standard deviation.

8. Add results from each laboratory in 'standardised values' calculations (positive and negative) and divide by count.
9. Produce 'Mean of Standardised Values' Bar Charts.
10. Add absolute values from each laboratory in 'standardised values' calculations.
11. Divide result by count of results to calculate average absolute standard value for laboratory performance on each element.
12. Produce 'Mean of Absolute Standardised Values' Bar Charts.

CHARTS

The 'Mean of Standardised Values' charts (blue in reports) indicate any bias shown by laboratories on a particular element, but do not show any general error which might be plus and minus the mean. The 'Mean of Absolute Standardised Values' charts (pink in reports) indicate the general error but no bias.

INTERPRETATION OF RESULTS

SUMMARY STATISTICS AND ASSAY TABLES

These tables are self-explanatory. The row titled 'error' refers to the margin of error expected at 95% confidence. That is, the standard normal probability or 'Z' statistic representing 95% (1.96) is multiplied by the standard deviation and the result is divided by the square root of the population. We can be 95% confident that the true mean lies between mean minus error and mean plus error. The row titled '% error in mean' is simply this margin of error expressed as a percentage of the calculated mean. Outliers are highlighted and not used for calculations at the top of the tables.

STANDARDISED VALUES

These numbers are generated using the following formula. Reported value minus the mean, result of this divided by the standard deviation. This creates a new distribution with mean '0' and standard deviation '1'. Positive and negative numbers result from this calculation depending on whether the reported value is above or below the mean. Laboratories reporting outliers are manually assigned 3.00 or -3.00 as these results have been removed from automatic calculation. The higher the absolute number reported, the further the reported assay is from the calculated mean.

MEAN OF ABSOLUTE STANDARDISED VALUES (RED CHARTS)

The bar representing each laboratory is the mean of the sum of the absolute standardised values reported on all assays of the element in question. That is, the absolute sum of the rows in the Standardised Values Table divided by the number of assays. These charts give a visual representation to the general error shown by the particular laboratories. These charts do not show bias.

MEAN OF STANDARDISED VALUES (BLUE CHARTS)

These charts show the mean of standardised values with negative values included. A direction of error or bias can be interpreted from laboratories showing high values, negative or positive.

BRIEFLY

General error is indicated in absolute column charts.

Bias is indicated in negative/positive column charts.

The column charts show indications of error or direction of error - check the real data in the tables before coming to any decision as to the significance of this error. Also pay attention to the grade of the standard materials with regard to the laboratory level of detection. Some laboratories may report outliers due to the limitations of their methodology.

LEGEND FOR METHODS & READINGS

METHODS

READINGS

1A	1 Acid Digest	AAS	Atomic Absorption Spectroscopy
2A	2 Acid Digest	GRAV	Gravimetric
3A	3 Acid Digest	ICP	Inductively Coupled Plasma - Unspecified
4A	4 Acid Digest	ES	ICP - Emission Spectroscopy
AD	Acid Digest	MS	ICP - Mass Spectroscopy
AR	Aqua Regia	IR	Infrared
CSA	Carbon and Sulphur Analyser	XRF	X-Ray Fluorescence
FA	Fire Assay	DIBK	DIBK Extraction
FUS	Fusion	MIBK	MIBK Extraction
GRAV	Gravimetric		
LW	Leachwell		
MAD	Multi-Acid Digest		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
VOL	Volumetric		

CONTENTS

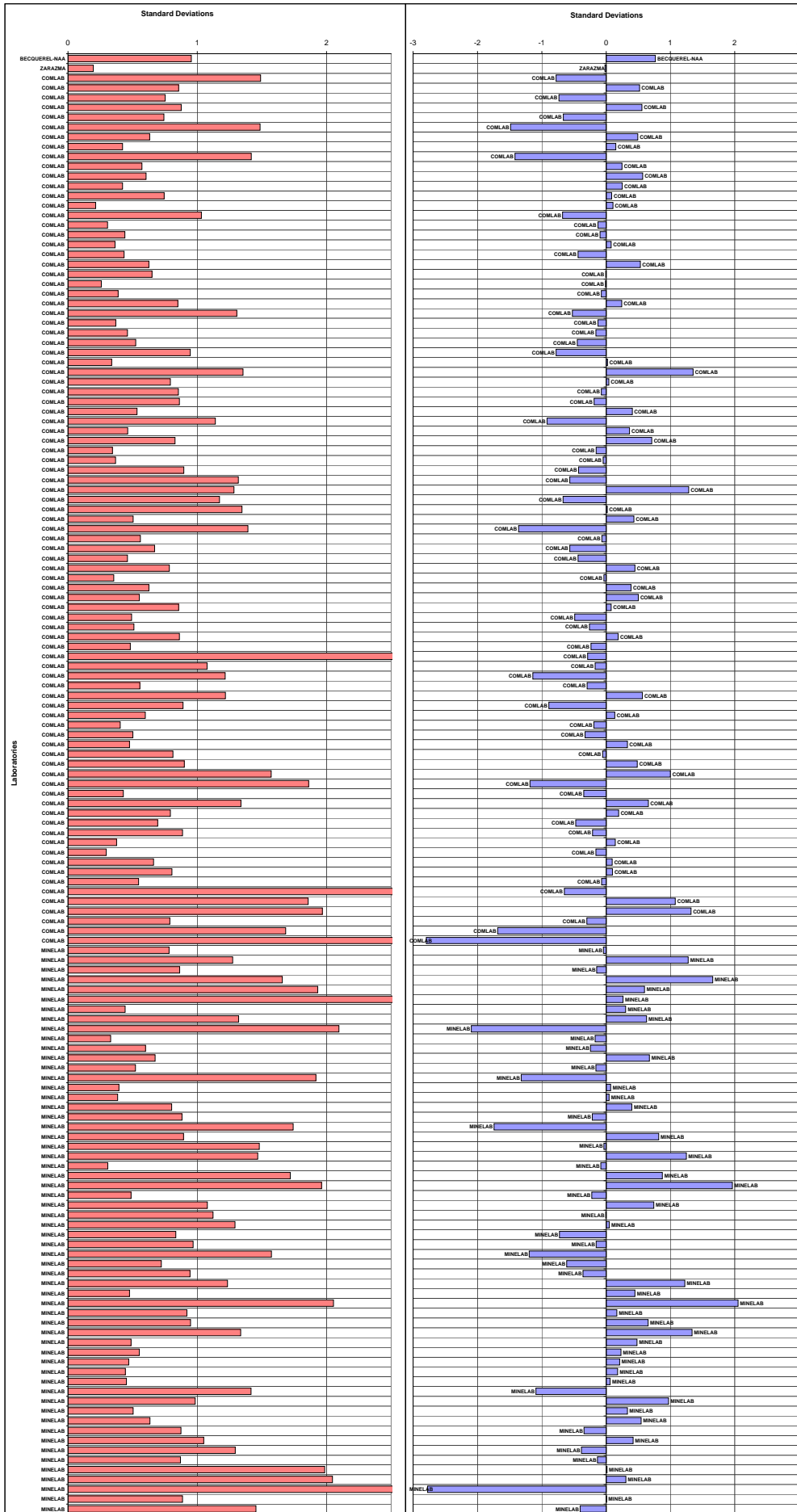
RESULTS OF ANALYSES PRESENTED AS TABLES AND PLOTS

ANALYSIS	PAGE	DESCRIPTION
FIRE ASSAY	1	Summary statistics, Assays, Standardised Values
	2	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
AQUA REGIA DIGEST	3	Summary statistics, Assays, Standardised Values
	4	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LOW GRADE GOLD ANALYSIS	5	Summary statistics, Assays, Standardised Values
	6	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
GOLD ON CARBON ANALYSIS	7	Summary statistics, Assays, Standardised Values
	8	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ON CARBON ANALYSIS	9	Summary statistics, Assays, Standardised Values
	10	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ANALYSIS	11	Summary statistics, Assays, Standardised Values
	12	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COPPER ANALYSIS (Geochem)	13	Summary statistics, Assays, Standardised Values
	14	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LEAD ANALYSIS (Geochem)	15	Summary statistics, Assays, Standardised Values
	16	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ZINC ANALYSIS (Geochem)	17	Summary statistics, Assays, Standardised Values
	18	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
NICKEL ANALYSIS (Geochem)	19	Summary statistics, Assays, Standardised Values
	20	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ARSENIC ANALYSIS	21	Summary statistics, Assays, Standardised Values
	22	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COBALT ANALYSIS	23	Summary statistics, Assays, Standardised Values
	24	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
COPPER ANALYSIS (Ore Grade)	25	Summary statistics, Assays, Standardised Values
	26	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
LEAD ANALYSIS (Ore Grade)	27	Summary statistics, Assays, Standardised Values
	28	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
ZINC ANALYSIS (Ore Grade)	29	Summary statistics, Assays, Standardised Values
	30	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
NICKEL ANALYSIS (Ore Grade)	31	Summary statistics, Assays, Standardised Values
	32	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SILVER ANALYSIS (Ore Grade)	33	Summary statistics, Assays, Standardised Values
	34	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SULPHUR ANALYSIS (Ore Grade)	35	Summary statistics, Assays, Standardised Values
	36	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
SULPHUR ANALYSIS	37	Summary statistics, Assays, Standardised Values
	38	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
CARBON ANALYSIS	39	Summary statistics, Assays, Standardised Values
	40	Mean of Positive Standardised Values (General Error)
		Mean of Standardised Values (General Bias)
BECQUEREL ANALYSIS	41	Becquerel Gold + 33 element analysis (Gold, Base Metals)

Fire Assay50 Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	G311-1	G311-2	G311-3	G311-4	G311-5	G311-6	G311-7	G311-8	G311-9	G311-10
MEAN (ppm)	0.52	4.93	0.27	1.43	1.32	0.22	0.40	1.57	10.01	7.32
STDEV (ppm)	0.04	0.18	0.02	0.05	0.06	0.02	0.03	0.08	0.48	0.276
95% CI (ppm)	0.01	0.03	0.00	0.01	0.01	0.01	0.01	0.08	0.65	0.48
95% CI (%)	1.14%	0.63%	1.38%	0.65%	0.73%	1.63%	1.93%	0.80%	0.81%	0.64%
MIN (ppm)	0.42	4.40	0.22	1.30	1.16	0.16	0.33	1.37	8.65	6.55
MEDIAN (ppm)	0.52	4.94	0.27	1.43	1.32	0.22	0.40	1.57	10.00	7.34
MAX (ppm)	0.61	5.44	0.33	1.56	1.45	0.27	0.47	1.76	11.13	7.96
QWR (ppm)	0.06	0.26	0.01	0.02	0.02	0.01	0.01	0.02	0.57	0.38
COUNT	138	137	136	137	136	137	136	141	134	134

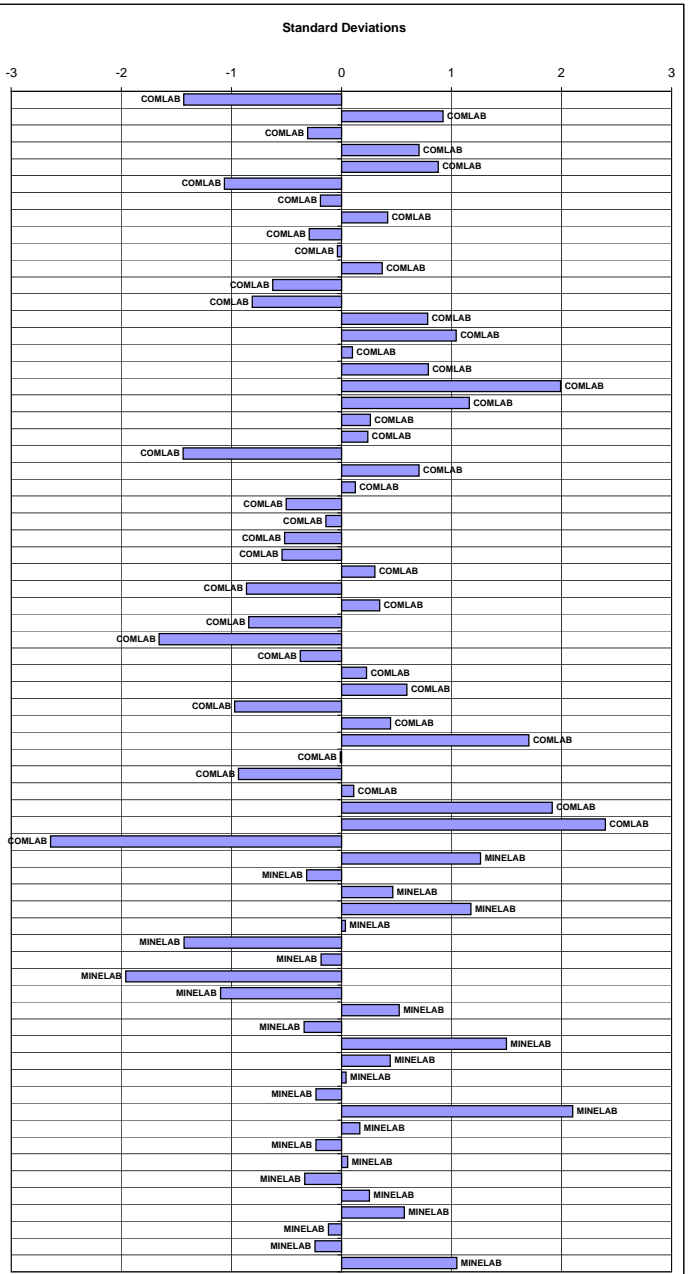
Standard Reference	G311-1	G311-2	G311-3	G311-4	G311-5	G311-6	G311-7	G311-8	G311-9	G311-10	Method	Reading										
LAB REFERENCE	ASSAY	Z-SCORE	ASSAY	Z-SCORE	ASSAY	Z-SCORE	ASSAY	Z-SCORE	ASSAY	Z-SCORE	ASSAY	Z-SCORE										
BEQUEREL-NAA	0.54	0.53	5.40	2.54	0.26	-0.51	1.50	1.45	1.45	2.35	0.23	0.57	0.43	0.86	1.58	0.18	9.80	-0.43	7.35	0.10	NAA	
ZARZAMA	0.52	-0.12	4.98	0.27	0.28	0.26	1.42	-0.32	1.32	-0.02	0.22	-0.09	0.41	1.18	1.57	-0.02	10.09	-0.18	7.18	-0.50	FA	ES
COMLAB	0.44	-2.24	4.80	-0.74	0.28	0.21	1.44	0.07	1.37	0.91	0.20	-0.99	0.36	-1.38	1.75	2.37	4.83	-3.00	6.49	-3.00	FA	AAS
COMLAB	0.53	0.13	5.14	1.13	0.20	0.12	1.51	1.15	1.20	0.22	0.12	-0.39	0.71	1.42	1.57	1.42	9.70	-0.64	7.27	-1.18	FA	AAS
COMLAB	0.47	-1.34	4.77	-0.87	0.27	-0.29	1.38	-1.06	1.28	-0.67	0.20	-1.04	0.37	-1.06	1.48	-1.11	10.00	-1.01	7.55	0.09	FA	OES,FAAR
COMLAB	0.50	-0.60	5.50	3.00	0.30	1.07	1.47	0.80	1.31	-0.11	0.21	-0.33	0.39	-0.56	1.61	0.58	10.10	-0.20	7.74	1.52	FANAA	AAS,INAA
COMLAB	0.48	-1.08	4.84	-0.48	0.24	-1.41	1.45	0.39	1.30	-0.35	0.20	-0.80	0.37	-0.95	1.52	-0.64	9.67	-0.71	7.15	-0.61	FA	AAS,FAAR
COMLAB	0.46	-1.57	4.40	-2.88	0.25	-0.50	1.34	-2.09	1.22	-1.67	0.19	-1.13	0.36	-1.45	1.43	-1.82	9.40	-1.27	7.25	-0.26	FA	AAS,FAAR
COMLAB	0.51	-0.32	5.22	1.57	0.28	0.39	1.46	0.59	1.34	0.42	0.21	-0.38	0.43	-1.04	1.58	0.18	10.37	0.76	7.51	0.68	FA	AAS,FAAR
COMLAB	0.51	-0.38	4.91	-0.12	0.29	0.89	1.47	0.80	1.34	0.42	0.22	-0.14	0.40	-1.13	1.59	0.31	10.22	-0.45	7.16	-0.58	FA	AAS
COMLAB	0.48	-1.05	4.64	-1.58	0.24	-1.28	1.34	-1.96	1.24	-1.42	0.20	-1.09	0.34	-2.09	1.49	-1.02	9.33	-1.42	6.97	-1.27	FA	AAS,FAAR
COMLAB	0.46	-0.26	5.05	0.44	0.27	0.02	1.46	1.16	1.31	0.24	0.21	-0.38	0.43	-0.70	1.72	0.23	10.05	-0.60	7.33	-0.36	FA	AAS
COMLAB	0.54	0.53	5.00	0.37	0.29	0.84	1.47	0.80	1.35	0.59	0.24	1.04	0.40	0.68	1.59	0.31	10.38	0.78	7.21	-0.19	FA	AAS
COMLAB	0.54	0.50	5.00	0.37	0.29	0.66	1.40	-0.71	1.33	0.24	0.22	-0.04	0.40	-1.10	1.57	0.05	10.30	0.61	7.58	0.94	FA	AAS,FAAR
COMLAB	0.52	-0.04	4.78	-0.82	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS
COMLAB	0.52	-0.04	4.93	-0.01	0.28	0.39	1.48	1.02	1.38	1.12	0.22	0.10	0.42	0.68	1.63	0.84	9.38	-1.31	7.01	-1.13	FA	AAS



Aqua Regia Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	G311-1	G311-2	G311-3	G311-4	G311-5	G311-6	G311-7	G311-8	G311-9	G311-10
MEAN (ppm)	0.51	4.82	0.27	1.40	1.28	0.21	0.40	1.54	7.45	5.54
STDEV (ppm)	0.04	0.29	0.02	0.11	0.11	0.02	0.04	0.11	3.10	1.961
95% CI (ppm)	0.01	0.07	0.01	0.03	0.03	0.00	0.01	0.03	0.75	0.47
95% CI (%)	1.89%	1.46%	2.32%	1.90%	2.18%	2.09%	2.76%	1.65%	10.03%	8.54%
MIN (ppm)	0.44	4.21	0.21	1.11	1.00	0.17	0.28	1.28	1.25	0.32
MEDIAN (ppm)	0.50	4.80	0.27	1.40	1.28	0.21	0.40	1.56	8.87	6.23
MAX (ppm)	0.60	5.59	0.34	1.66	1.54	0.26	0.52	1.73	11.28	8.35
IQR (ppm)	0.05	0.38	0.04	0.12	0.15	0.02	0.05	0.11	5.23	3.23
COUNT	61	67	60	68	66	60	65	67	67	67

Standard Reference	G311-1		G311-2		G311-3		G311-4		G311-5		G311-6		G311-7		G311-8		G311-9		G311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	0.46	-1.31	4.60	-0.77	0.23	-1.90	1.22	-1.66	1.11	-1.43	0.19	-1.46	0.34	-1.33	1.37	-1.59	9.18	0.56	6.96	0.72	AR	MS
COMLAB	0.54	1.03	5.12	1.02	0.28	0.47	1.53	1.12	1.42	1.24	0.23	0.98	0.43	0.67	1.63	0.87	10.20	0.89	7.55	1.03	AR,NAA	GF,INAA
COMLAB	0.48	-0.80	4.79	-0.10	0.27	-0.26	1.47	0.57	1.16	-1.04	0.20	-0.80	0.39	-0.16	1.55	0.13	10.14	0.87	7.66	1.08	FA	AAS
COMLAB	0.54	0.93	5.30	1.64	0.29	0.71	1.43	0.23	1.33	0.46	0.22	0.41	0.43	0.71	1.60	0.58	10.59	1.01	7.70	1.10	FA	AAS,GRAV
COMLAB	0.52	0.42	4.97	0.50	0.32	2.00	1.54	1.21	1.43	1.33	0.22	0.18	0.44	1.00	1.58	0.39	11.00	1.15	7.25	0.87	AR	GF
COMLAB	0.44	-1.75	4.49	-1.14	0.25	-1.02	1.29	-1.04	1.22	-0.51	0.19	-1.26	0.37	-0.58	1.41	-1.19	9.37	0.62	7.20	0.85	FA	AAS
COMLAB	0.47	-0.98	4.92	0.33	0.26	-0.46	1.36	-0.40	1.24	-0.33	0.21	-0.28	0.40	-0.07	1.61	0.68	6.27	-0.38	5.84	0.15	AR	MS
COMLAB	0.52	0.40	5.02	0.68	0.29	0.71	1.43	0.23	1.29	0.11	0.22	0.41	0.41	0.27	1.60	0.58	10.45	0.97	7.97	1.19	PR,AR	MS
COMLAB	0.48	-0.66	4.53	-1.01	0.28	0.31	1.39	-0.13	1.22	-0.50	0.22	0.41	0.39	-0.18	1.48	-0.56	8.87	0.46	6.72	0.60	AR	AAS
COMLAB	0.52	0.40	4.83	0.02	0.27	-0.10	1.40	-0.04	1.28	0.02	0.21	-0.17	0.40	0.04	1.49	-0.46	3.75	-1.20	2.80	-1.40	AR	MS
COMLAB	0.52	0.40	5.45	2.15	0.28	0.43	1.43	0.23	1.28	0.02	0.21	-0.22	0.41	0.24	1.51	-0.27	3.85	-1.23	5.03	-0.26	AR	DIBK
COMLAB	0.47	-0.93	4.75	-0.25	0.25	-0.90	1.37	-0.31	1.23	-0.42	0.20	-0.74	0.38	-0.40	1.43	-1.03	nr	nr	nr	nr	AR	MS
COMLAB	nr	nr	4.50	-1.11	0.27	-0.10	1.21	-1.74	1.20	-0.68	0.21	-0.28	0.43	0.60	1.29	-2.36	6.05	-0.45	3.81	-0.88	AR	MS
COMLAB	0.54	0.93	5.07	0.85	0.28	0.31	1.41	0.05	1.53	2.20	0.22	0.41	0.42	0.49	1.65	1.06	9.97	0.81	7.29	0.89	AR	ICP
COMLAB	0.70	3.00	5.18	1.23	0.28	0.31	1.55	1.30	1.45	1.50	0.21	-0.17	0.42	0.49	1.61	0.68	1.25	-2.00	2.81	-1.39	AR	DIBK
COMLAB	0.50	-0.13	5.07	0.85	0.25	-0.90	1.37	-0.31	1.30	0.19	0.24	1.55	0.39	-0.18	1.51	-0.27	nr	nr	nr	nr	AR	AAS
COMLAB	0.55	1.09	5.00	0.61	0.29	0.59	1.50	0.85	1.30	0.19	0.23	0.98	0.42	0.49	1.70	1.53	4.10	-1.08	4.90	-0.33	AR	MS
COMLAB	0.66	3.00	5.36	1.84	0.50	3.00	1.53	1.13	1.40	1.04	0.29	3.00	0.47	1.56	1.68	1.36	5.56	-0.61	5.29	-0.13	AR	DIBK
COMLAB	0.80	3.00	4.80	-0.08	0.30	1.11	1.80	3.00	1.10	-1.55	0.50	3.00	0.30	-2.19	2.00	3.00	3.50	-1.28	4.00	-0.78	AR	AAS
COMLAB	0.51	0.24	4.98	0.54	0.27	-0.18	1.41	0.05	1.38	0.89	0.22	0.35	0.40	-0.07	1.57	0.30	10.70	1.05	7.06	0.78	AR	MS
COMLAB	0.54	0.90	4.63	-0.66	0.26	-0.46	1.46	0.46	1.26	-0.18	0.24	1.78	0.41	0.27	1.52	-0.18	10.09	0.85	7.21	0.85	FA	AAS
COMLAB	0.45	-1.46	4.60	-0.77	0.21	-2.51	1.34	-0.58	1.30	0.19	0.08	-3.00	0.28	-2.63	1.46	-0.75	4.18	-1.06	4.06	-0.75	AR	AAS,DIBK
COMLAB	0.57	1.72	5.23	1.40	0.27	-0.10	1.49	0.76	1.41	1.15	0.21	-0.17	0.39	-0.18	1.65	1.06	10.05	0.84	7.50	1.00	FA	DIBK
COMLAB	0.45	-1.46	4.84	0.06	0.29	0.71	1.39	-0.13	1.28	0.02	0.22	0.41	0.44	0.93	1.59	0.49	6.77	-0.22	4.53	-0.51	AR	AAS
COMLAB	0.48	-0.66	4.80	-0.08	0.25	-0.90	1.39	-0.13	1.23	-0.42	0.19	-1.31	0.40	0.04	1.48	-0.56	7.64	0.06	3.46	-1.06	AR	AAS,MIBK
COMLAB	0.53	0.66	4.75	-0.25	0.25	-0.90	1.30	-0.94	1.26	-0.16	0.21	-0.17	0.40	0.04	1.60	0.58	6.07	-0.45	5.46	-0.04	AR	DIBK
COMLAB	0.47	-0.93	4.91	0.30	0.24	-1.31	1.31	-0.85	1.26	-0.16	0.20	-0.74	0.36	-0.85	1.58	0.39	6.72	-0.24	5.01	-0.27	AR	DIBK
COMLAB	0.44	-1.72	4.87	0.16	0.25	-0.90	1.43	0.23	1.16	-1.03	0.22	0.41	0.40	0.04	1.38	-1.51	3.00	-1.29	3.00	-1.29	AR	DIBK
COMLAB	0.50	-0.13	5.02	0.68	0.27	-0.10	1.47	0.58	1.33	0.46	0.22	0.41	0.40	0.04	1.59	0.49	6.76	-0.22	3.12	-1.23	AR	DIBK
COMLAB	0.49	-0.34	4.25	-1.97	0.26	-0.34	1.25	-1.39	1.05	-1.99	0.20	-0.85	0.38	-0.31	1.57	0.30	9.70	0.73	6.23	0.35	AR	GF
COMLAB	0.54	0.95	4.95	0.43	0.27	-0.30	1.45	0.40	1.39	1.01	0.22	0.41	0.39	-0.20	1.55	0.09	7.47	0.01	6.29	0.38	AR	MS
COMLAB	0.44	-1.72	4.76	-0.22	0.16	-3.00	1.28	-1.12	1.36	0.72	0.20	-0.74	0.36	-0.85	1.56	0.20	9.88	0.79	6.76	0.62	FA	DIBK
COMLAB	0.47	-0.93	4.34	-1.66	0.48	3.00	1.22	-1.65	0.91	-3.00	0.13	-3.00	0.20	-3.00	1.10	-3.00	7.90	0.15	7.12	0.81	FA	GRAV
COMLAB	0.49	-0.40	4.65	-0.59	0.24	-1.31	1.46	0.49	1.34	0.54	0.21	-0.17	0.40	0.04	1.37	-1.60	8.40	0.31	6.03	0.25	FA	AAS
COMLAB	0.53	0.74	4.60	-0.78	0.30	0.95	1.40	-0.02	1.19	-0.76	0.23	0.86	0.43	0.80	1.54	0.01	9.88	0.78	7.10	0.79	AR	DIBK
COMLAB	0.58	1.91	5.22	1.37	0.28	0.35	1.40	-0.08	1.17	-0.93	0.22	0.35	0.40	0.00	1.73	1.80	11.23	1.22	7.57	1.03	AR	AAS
COMLAB	0.48	-0.66	4.21	-2.10	0.26	-0.50	1.36	-0.40	1.20	-0.68	0.18	-1.89	0.32	-1.74	1.52	-0.18	4.51	-0.95	2.26	-1.67	AR	DIBK
COMLAB	0.55	1.19	5.11	0.99	0.27	-0.10	1.49	0.76	1.31	0.28	0.20	-0.74	0.43	0.71	1.59	0.49	7.52	0.02	2.71	-1.44	AR	DIBK
COMLAB	0.64	3.00	5.79	3.00	0.47	3.00	1.40	-0.04	1.33	0.46	0.22	0.41	0.50	2.27	1.70	1.53	1.54	-1.91	2.97	-1.31	AR	AAS
COMLAB	0.52	0.40	4.90	0.26	0.28	0.15	1.37	-0.31	1.28	0.03	0.21	-0.22	0.39	-0.27	1.53	-0.10	10.30	0.92	7.90	1.20	FA	AAS,GRAV
COMLAB	0.47	-0.93	4.70	-0.42	0.26	-0.50	1.24	-1.47	1.17	-0.94	0.20	-0.74	0.35	-1.07	1.39	-1.41	10.48	0.98	7.05	0.77	PR,AR	DIBK
COMLAB	0.59	2.15	4.77	-0.18	0.33	2.16	1.19	-1.97	1.14	-1.22	0.21	-0.11	0.39	-0.29	1.58	0.34	9.60	0.69	7.87	1.19	AR	DIBK
COMLAB	0.60	2.52	5.20	1.29	0.40	3.00	1.56	1.39	1.46	1.59	0.37	3.00	0.59	3.00	1.49	-0.46	9.93	0.80	6.70	0.59	PR,AR	DIBK
COMLAB	0.63	3.00	5.04	0.74	0.43	3.00	1.66	2.28	1.76	3.00	0.36	3.00	0.63	3.00	1.66	1.15	10.06	0.84	6.67	0.58	PR,AR	DIBK
COMLAB	0.17	-3.00	4.34	-1.66	0.14	-3.00	1.24	-1.47	0.92	-3.00	0.14	-3.00	0.20	-3.00	1.20	-3.00	10.30	0.92	5.69	0.08	PR,AR	AAS
MINELAB	0.49	-0.32	4.56	-0.90	0.44	3.00	1.32	-0.77	1.74	3.00	0.85	3.00	0.52	2.60	1.59	0.50	9.16	0.55	6.94	0.71	AR	DIBK
MINELAB	0.49	-0.40	4.80	-0.08	0.25	-0.90	1.38	-0.22	1.32	0.37	0.20	-										



Low Grade Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GLG311-1	GLG311-2	GLG311-3	GLG311-4	GLG311-5
MEAN (ppb)	2	80	52	27	4
STDEV (ppb)	1	7	4	3	2
95% CI (ppb)	0	2	1	1	0
95% CI (%)	15.54%	2.13%	2.02%	3.23%	12.96%
MIN (ppb)	1	62	43	18	1
MEDIAN (ppb)	2	81	51	26	4
MAX (ppb)	5	99	62	34	7
IQR (ppb)	1	6	5	3	2
COUNT	32	65	63	61	45

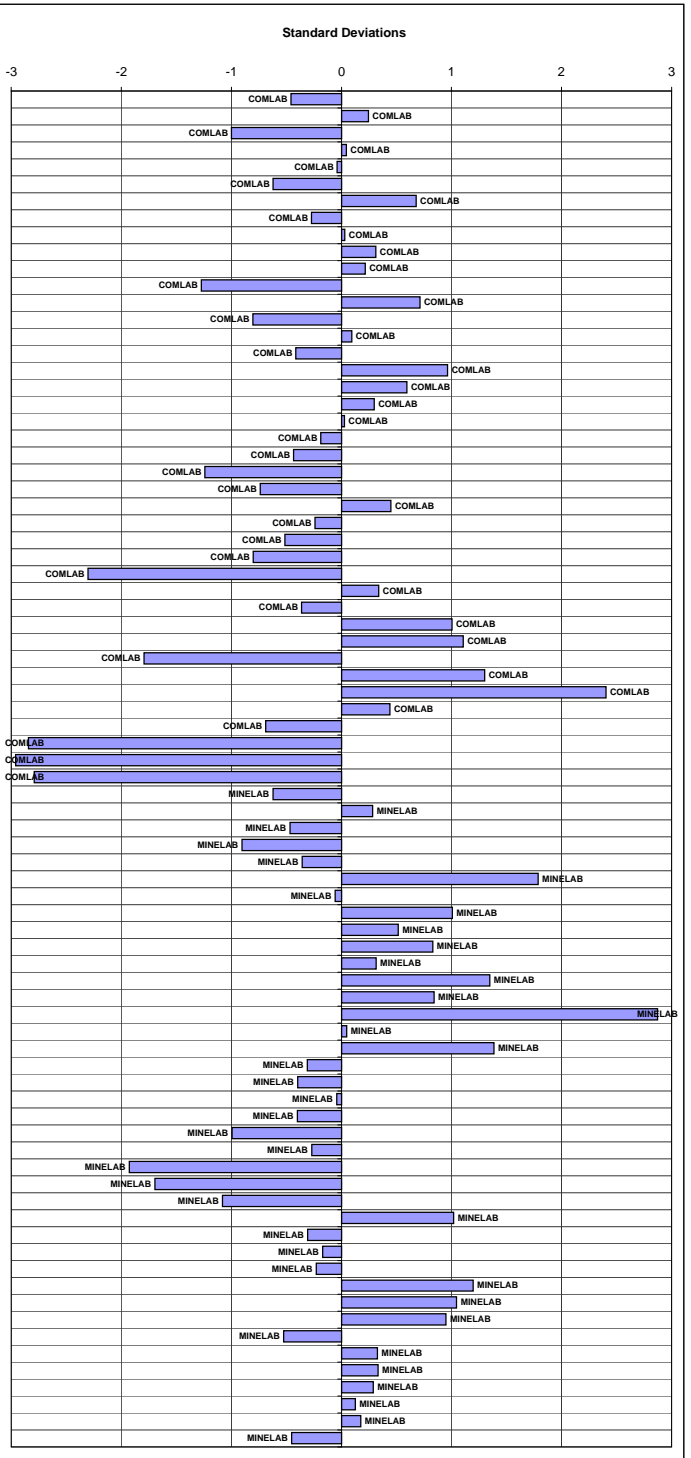
Standard Reference	GLG311-1		GLG311-2		GLG311-3		GLG311-4		GLG311-5		Method	Reading	
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score			
BECQUEREL-NAA	<2	bld	76	-0.58	51	-0.13	25	-0.45	3	-0.36	NAA	AAS	
ZARAZMA	2	-0.40	80	0.00	52	0.11	25	-0.45	4	0.28	FA	AAS	
COMLAB	<5	bld	76	-0.58	46	-1.33	28	0.43	6	1.56	FA	AAS	
COMLAB	<2	bld	83	0.43	52	0.11	27	0.14	4	0.28	FA	MS	
COMLAB	<1	bld	76	-0.58	46	-1.33	23	-1.04	1	-1.64	FA	MS	
COMLAB	<5	bld	77	-0.43	62	2.50	27	0.14	<5	bld	FA,NAA	AAS,INAA	
COMLAB	<5	bld	75	-0.72	50	-0.37	25	-0.45	<5	bld	FA	AAS	
COMLAB	3	0.54	65	-2.15	45	-1.56	28	0.43	4	0.28	FA	AAS	
COMLAB	2	-0.40	82	0.28	50	-0.37	23	-1.04	3	-0.36	FA	AAS	
COMLAB	<5	bld	89	1.29	52	0.11	26	-0.16	<5	bld	FA	AAS	
COMLAB	<5	bld	87	1.00	57	1.30	28	0.43	7	2.20	FA	AAS	
COMLAB	3	0.54	72	-1.15	50	-0.37	24	-0.75	4	0.28	FA	AAS	
COMLAB	2	-0.40	77	-0.43	48	-0.85	25	-0.45	4	0.28	FA	MS	
COMLAB	2	-0.40	83	0.43	61	2.26	28	0.43	3	-0.36	PR,AR	MS	
COMLAB	1	-1.33	80	0.00	49	-0.61	25	-0.45	1	-1.64	FA	ES	
COMLAB	<1	bld	76	-0.58	43	-2.04	20	-1.93	<1	bld	FA	OES	
COMLAB	<1	bld	83	0.43	51	-0.13	25	-0.45	1	-1.64	FA	OES	
COMLAB	2	-0.40	86	0.86	55	0.82	29	0.73	4	0.28	FA	AAS	
COMLAB	2	-0.40	88	1.15	49	-0.61	25	-0.45	3	-0.36	FA	ES	
COMLAB	<2	bld	76	-0.58	48	-0.85	25	-0.45	3	-0.36	FA	AAS	
COMLAB	1	-1.33	80	0.00	50	-0.37	24	-0.75	1	-1.64	FA	OES	
COMLAB	3	0.44	93	1.79	56	1.06	28	0.43	6	1.24	FA	ES	
COMLAB	71	3.00	236	3.00	153	3.00	105	3.00	49	3.00	AR	DIBK	
COMLAB	3	0.54	71	-1.29	52	0.11	29	0.73	1	-1.64	AR	DIBK	
COMLAB	6	3.00	84	0.57	57	1.30	33	1.91	9	3.00	FA	AAS	
COMLAB	1	-1.33	90	1.43	57	1.30	28	0.43	2	-1.00	FA	OES	
COMLAB	4	1.47	65	-2.15	38	-3.00	14	-3.00	5	0.92			
COMLAB	<0.5	bld	82	0.28	54	0.59	28	0.43	4	0.28	AR	MS	
COMLAB	2	-0.40	62	-2.58	45	-1.56	26	-0.16	3	-0.36	FA	ES	
COMLAB	<5	bld	66	-2.01	44	-1.80	18	-2.52	<5	bld	FA	AAS	
COMLAB	1	-1.33	85	0.71	51	-0.13	26	-0.16	2	-1.00	FA	AAS	
COMLAB	2	-0.40	86	0.86	55	0.82	26	-0.16	5	0.92	FA	AAS	
COMLAB	<1	bld	80	0.00	51	-0.13	25	-0.45	2	-1.00	FA	MS	
COMLAB	1	-1.33	81	0.14	51	-0.13	30	1.02	3	-0.36	AR	GF,MIBK	
COMLAB	1	-1.33	77	-0.43	47	-1.09	25	-0.45	3	-0.36	FA	MS	
COMLAB	<1	bld	75	-0.72	44	-1.80	23	-1.04	<1	bld	AR	DIBK	
COMLAB	2	-0.40	82	0.28	54	0.59	29	0.73	4	0.28	FA	GF	
COMLAB	2	-0.40	80	0.00	51	-0.13	25	-0.45	2	-1.00	FA	AAS,MIBK	
COMLAB	<1	bld	82	0.26	50	-0.31	23	-1.07	3	-0.65	FA	OES	
COMLAB	2	-0.40	83	0.37	54	0.59	26	-0.27	3	-0.10	AR	MS	
COMLAB	4	1.47	81	0.14	50	-0.37	31	1.32	21	3.00	FA	OES	
COMLAB	4	1.47	78	-0.29	51	-0.13	27	0.14	5	0.92	FA	OES	
COMLAB	<5	bld	81	0.14	51	-0.13	24	-0.75	14	<5	bld	FA	AAS
COMLAB	5	2.41	83	0.43	58	1.54	34	2.20	9	3.00	FA	AAS,OES	
COMLAB	<1	bld	66	-2.01	45	-1.56	21	-1.63	<1	bld	AR	MS	
COMLAB	8	3.00	82	0.28	52	0.11	28	0.43	21	3.00	FA	DIBK	
COMLAB	<1	bld	86	0.86	55	0.82	25	-0.45	<1	bld	FA	OES	
COMLAB	64	3.00	82	0.28	50	-0.37	34	2.20	4	0.28	FA	OES	
COMLAB	7	3.00	85	0.71	50	-0.37	28	0.43	6	1.56	FA	AAS	
COMLAB	3	0.54	71	-1.29	52	0.11	27	0.14	3	-0.36	FA	MS	
COMLAB	2	-0.40	81	0.14	51	-0.13	26	-0.16	<1	bld	FA	AAS	
COMLAB	<5	bld	90	1.43	55	0.82	25	-0.45	<5	bld	FA	AAS	
COMLAB	<2	bld	81	0.14	54	0.59	28	0.43	<2	bld	FA	AAS	
COMLAB	<2	bld	83	0.43	51	-0.13	28	0.43	2	-1.00	FA	OES	
COMLAB	2	-0.40	77	-0.43	48	-0.85	23	-1.04	2	-1.00	FA	AAS	
COMLAB	4	1.47	83	0.43	49	-0.61	25	-0.45	5	0.92	FA	AAS	
COMLAB	<5	bld	77	-0.43	57	1.30	24	-0.75	<5	bld	FA	AAS	
COMLAB	3	0.26	37	-3.00	30	-3.00	8	-3.00	4	0.47	PR,3A	AAS	
MINELAB	100	3.00	200	3.00	160	3.00	140	3.00	100	3.00	FA	AAS	
MINELAB	4	1.47	82	0.28	52	0.11	33	1.91	5	0.92	FA	AAS	
MINELAB	50	3.00	53	-3.00	45	-1.52	64	3.00	42	3.00	FA	AAS	
MINELAB	34	3.00	11	-3.00	75	3.00	6	-3.00	35	3.00	FA,AR	AAS,GRAY	
MINELAB	bld	bld	69	-1.57	37	-3.00	20	-1.99	4	-0.01	AR	AAS	
MINELAB	10	3.00	81	0.16	52	0.13	30	1.06	10	3.00	AR	AAS	
MINELAB	14	3.00	79	-0.15	55	0.82	34	2.20	7	2.20	FA	AAS	
MINELAB	31	3.00	99	2.72	69	3.00	38	3.00	14	3.00	FA	AAS	
MINELAB	3	0.54	82	0.28	53	0.35	29	0.73	5	0.92	AR	DIBK	
MINELAB	<10	bld	80	0.00	60	2.02	40	3.00	<10	bld	FA	AAS	
MINELAB	<10	bld	77	-0.43	56	1.06	32	1.61	17	3.00	FA	AAS	
MINELAB	10	3.00	95	2.15	55	0.82	40	3.00	5	0.92	FA	AAS	

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. Insufficient results were received for the highlighted material. These results do not contribute to the error charts.

Gold on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBC311-1	GBC311-2	GBC311-3	GLC311-1	GLC311-2	GLC311-3
MEAN (ppm)	641	375	864	4339	1866	2817
STDEV (ppm)	28	20	38	222	75	109
95% CI (ppm)	6	5	9	50	17	25
95% CI (%)	0.99%	1.21%	0.99%	1.16%	0.93%	0.90%
MIN (ppm)	568	337	785	3726	1719	2589
MEDIAN (ppm)	642	373	860	4336	1859	2823
MAX (ppm)	708	425	955	4916	2040	3043
IQR (ppm)	35	23	46	258	98	153
COUNT	75	75	75	76	72	72

Standard Reference	GBC311-1		GBC311-2		GBC311-3		GLC311-1		GLC311-2		GLC311-3		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	624	-0.61	374	-0.05	844	-0.53	4272	-0.30	1820	-0.62	2748	-0.63	FA,PR	GRAV
COMLAB	642	0.04	382	0.37	873	0.25	4450	0.50	1860	-0.08	2860	0.40	FA	GRAV
COMLAB	1084	3.00	766	3.00	745	-3.00	1391	-3.00	1068	-3.00	1118	-3.00	FA	GRAV
COMLAB	678	1.33	385	0.52	884	0.54	4215	-0.56	1802	-0.86	2740	-0.70	FA	AAS
COMLAB	664	0.83	401	1.32	837	-0.71	nr	nr	1790	-1.02	2750	-0.61	FA	GRAV
COMLAB	627	-0.50	360	-0.73	817	-1.25	4161	-0.80	1910	0.59	2704	-1.03	FA	GRAV
COMLAB	849	0.29	386	0.57	871	0.19	4550	0.95	1950	1.12	2920	0.95	PR,AR	AAS
COMLAB	627	-0.50	372	-0.13	840	-0.63	4290	-0.22	1880	0.18	2780	-0.34	PR,AR	AAS
COMLAB	647	0.22	375	0.02	876	0.33	4300	-0.17	1855	-0.15	2810	-0.06	FA	GRAV
COMLAB	627	-0.50	381	0.32	841	-0.61	4530	0.86	1950	1.12	2890	0.67	FA	AAS
COMLAB	650	0.31	380	0.25	879	0.41	4391	0.24	1868	0.03	2825	0.08	FA	GRAV
COMLAB	620	-0.75	360	-0.73	808	-1.49	4030	-1.39	1750	-1.56	2630	-1.71	FUS	XRF
COMLAB	708	2.40	366	-0.43	887	0.62	4434	0.43	1919	0.71	2877	0.55	AR,3A	AAS
COMLAB	619	-0.78	360	-0.75	848	-0.42	4019	-1.44	1812	-0.73	2739	-0.71	FA	GRAV
COMLAB	643	0.07	366	-0.43	853	-0.28	4505	0.75	1793	-0.98	2975	1.45	PR	AAS
COMLAB	633	-0.30	367	-0.38	846	-0.49	4218	-0.55	1824	-0.56	2795	-0.20	FA	GRAV
COMLAB	664	0.82	400	1.25	901	0.98	4507	0.76	1913	0.62	2963	1.34	FA	GRAV
COMLAB	680	1.38	405	1.50	903	1.04	4382	0.19	1874	0.10	2767	-0.65	PR,AR	AAS
COMLAB	641	0.00	367	-0.38	883	0.51	4293	-0.21	1920	0.72	2941	1.14	FA	AAS
COMLAB	645	0.13	375	0.01	873	0.24	4353	0.07	1857	-0.12	2799	-0.16	FA	GRAV
COMLAB	642	0.04	350	-1.23	855	-0.23	4354	0.07	1870	0.05	2837	0.19	FA	GRAV
COMLAB	626	-0.53	364	-0.53	859	-0.13	4241	-0.44	1829	-0.50	2765	-0.47	FA	GRAV
COMLAB	619	-0.78	367	-0.38	825	-1.03	4037	-1.36	1719	-1.97	2608	-1.92	PR,AR	AAS
COMLAB	663	0.79	348	-1.34	844	-0.53	4230	-0.49	1750	-1.56	2675	-1.30	AR	AAS
COMLAB	668	0.97	389	0.72	898	0.91	4310	-0.13	1880	0.18	2820	0.03	AR	OES
COMLAB	638	-0.10	369	-0.28	858	-0.15	4242	-0.44	1839	-0.36	2806	-0.10	FA,PR	GRAV
COMLAB	643	0.08	364	-0.53	838	-0.69	4300	-0.17	1760	-1.42	2780	-0.34	FA	GRAV
COMLAB	635	-0.21	370	-0.23	822	-1.11	4200	-0.62	1750	-1.56	2700	-1.07	FA	GRAV
COMLAB	580	-2.18	339	-1.79	788	-2.01	3932	-1.83	1620	-3.00	2482	-3.00	FA	GRAV
COMLAB	651	0.35	383	0.40	885	0.58	4423	0.38	1877	0.14	2837	0.19	FA,PR	GRAV
COMLAB	585	-2.00	367	-0.38	890	0.70	4345	0.03	1925	0.79	2675	-1.30	FA	GRAV
COMLAB	617	-0.85	418	2.18	921	1.52	4571	1.05	1932	0.88	2953	1.25	PR,AR	AAS
COMLAB	640	-0.03	391	0.82	894	0.81	4792	2.04	2040	2.33	2890	0.67		
COMLAB	570	-2.54	351	-1.18	785	-2.10	3990	-1.57	1750	-1.56	2620	-1.81	FA	AAS,GRAV
COMLAB	682	1.47	402	1.38	923	1.58	4620	1.27	1940	0.99	2940	1.13	AR	AAS
COMLAB	687	1.65	421	2.33	933	1.84	4916	2.60	2257	3.00	3248	3.00	PR,AR	AAS
COMLAB	650	0.33	376	0.07	877	0.35	4490	0.68	1900	0.45	2900	0.77	FA	GRAV
COMLAB	623	-0.64	363	-0.58	846	-0.47	4216	-0.55	1794	-0.97	2717	-0.92	FA	GRAV
COMLAB	459	-3.00	285	-3.00	653	-3.00	3883	-2.05	1570	-3.00	2460	-3.00	FA,PR	GRAV
COMLAB	453	-3.00	268	-3.00	621	-3.00	3726	-2.76	1524	-3.00	2428	-3.00	FA,PR	GRAV
COMLAB	520	-3.00	340	-1.74	699	-3.00	3537	-3.00	1530	-3.00	2323	-3.00	FUS	OES
MINELAB	630	-0.39	360	-0.73	845	-0.50	4362	0.11	1767	-1.33	2720	-0.89	AR	AAS
MINELAB	671	1.06	387	0.62	873	0.24	4137	-0.91	1875	0.12	2879	0.57	FA,PR	AAS
MINELAB	649	0.27	349	-1.29	820	-1.17	4390	0.23	1941	1.00	2616	-1.84	FA	AAS
MINELAB	568	-2.60	347	-1.38	797	-1.77	4482	0.65	1953	1.16	2657	-1.47	AR	AAS
MINELAB	660	0.68	310	-3.00	870	0.17	4370	0.14	1840	-0.35	2840	0.21	FA	AAS,GRAV
MINELAB	669	1.01	425	2.53	955	2.43	4496	0.71	2013	1.96	3043	2.08	FA	
MINELAB	647	0.22	378	0.17	860	-0.10	4303	-0.16	1848	-0.24	2792	-0.23	FA	GRAV
MINELAB	662	0.76	387	0.62	911	1.26	4572	1.05	1951	1.13	2950	1.23	PR,AR	AAS
MINELAB	636	-0.17	337	-1.89	925	1.63	4591	1.14	1951	1.13	2953	1.25	PR,AR	AAS
MINELAB	683	1.51	402	1.38	899	0.94	4436	0.44	1848	-0.24	2921	0.96	FA	PP
MINELAB	672	1.11	396	1.07	839	-0.66	4277	-0.28	1948	1.09	2768	-0.45	FA	GRAV
MINELAB	649	0.30	361	-0.66	875	0.30	4815	2.15	2193	3.00	3187	3.00	AR	AAS
MINELAB	673	1.15	386	0.57	900	0.97	4526	0.84	1909	0.57	2919	0.94	FA	GRAV
MINELAB	752	3.00	445	3.00	980	3.00	5005	3.00	2033	2.23	3300	3.00	AD	AAS
MINELAB	668	0.97	383	0.42	865	0.03	4196	-0.64	1841	-0.34	2799	-0.16	AR	AAS
MINELAB	685	1.58	407	1.63	920	1.50	4722	1.73	1962	1.28	2883	0.61	PR,AR	AAS
MINELAB	635	-0.21	363	-0.58	847	-0.45	4304	-0.16	1814	-0.70	2842	0.23	PR,AR	AAS
MINELAB	633	-0.28	378	0.17	864	0.01	4250	-0.40	1785	-1.09	2730	-0.80	FA	DIBK
MINELAB	633	-0.28	383	0.42	853	-0.29	4285	-0.24	1861	-0.07	2840	0.21	AR	AAS
MINELAB	633	-0.28	366	-0.43	860	-0.10	4277	-0.28	1840	-0.35	2712	-0.96	FA	GRAV
MINELAB	643	0.08	362	-0.63	828	-0.95	4046	-1.32	1551	-3.00	2802	-0.13	FA	GRAV
MINELAB	635	-0.21	368	-0.34	853	-0.28	4294	-0.20	1843	-0.31	2787	-0.27	PR	GRAV
MINELAB	586	-1.96	342	-1.64	791	-1.94	3822	-2.33	1736	-1.74	2605	-1.94	FA	GRAV
MINELAB	581	-2.14	340	-1.74	816	-1.27	4043	-1.33	1747	-1.60	2589	-2.09	FA	GRAV
MINELAB	622	-0.68	349	-1.29	820	-1.17	4191	-0.67	1738	-1.72	2710	-0.98	PR,AR	AAS
MINELAB	648	0.25	396	1.07	922	1.55	4460	0.55	1972	1.42	2955	1.27	FA	AAS
MINELAB	628	-0.46	355	-0.98	859	-0.13	4326	-0.06	1829	-0.50	2847	0.28	AR	AAS
MINELAB	636	-0.17	371	-0.18	869	0.14	4280	-0.26	1830	-0.48	2810	-0.06	AR	AAS
MINELAB	617	-0.85	361	-0.68	848	-0.42	4450	0.50	1850	-0.22	2850	0.31	PR	AAS
MINELAB	675	1.22	416	2.08	930	1.76	4397	0.26	1955	1.19	2890	0.67	AR	AAS
MINELAB	668	0.97	383	0.42	920	1.50	4590	1.13	1970	1.39	2910	0.86	AR	AAS
MINELAB	652	0.40	400	1.27	897	0.89	4473	0.61	1954	1.17	2964	1.35	FA	GRAV
MINELAB	597	-1.57	368	-0.33	792	-1.91	4170	-0.76	1840	-0.35	3010	1.78	FA	AAS
MINELAB	607	-1.21	373	-0.08	836	-0.74	4700	1.63	1910	0.59	3010	1.78		
MINELAB	621	-0.71	375	0.02	906	1.13	4470	0.59	1908	0.56	2862	0.42	AR	DIBK
MINELAB	661	0.72	385	0.52										

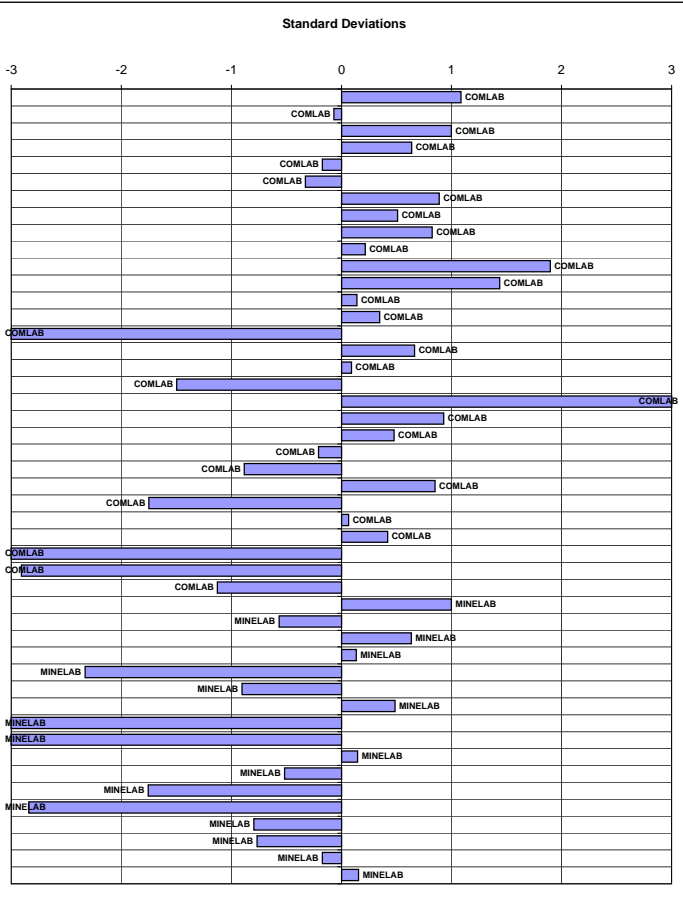


Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBC311-1	GBC311-2	GBC311-3	GLC311-1	GLC311-2	GLC311-3
MEAN (ppm)	901	662	675	1373	953	1118
STDEV (ppm)	64	56	52	119	61	97
95% CI (ppm)	21	19	17	39	21	31
95% CI (%)	2.34%	2.83%	2.53%	2.83%	2.17%	2.76%
MIN (ppm)	738	535	551	1078	819	882
MEDIAN (ppm)	918	670	685	1397	956	1140
MAX (ppm)	1031	779	770	1585	1091	1318
IQR (ppm)	89	69	72	190	72	125
COUNT	37	35	36	37	34	39

Standard Reference	GBC311-1		GBC311-2		GBC311-3		GLC311-1		GLC311-2		GLC311-3		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
Lab Reference														
COMLAB	2055	3.00	1119	3.00	1678	3.00	1078	-2.48	5260	3.00	401	-3.00	FA,PR	GRAV
COMLAB	927	0.40	705	0.78	686	0.27	1260	-0.95	959	0.10	1020	-1.01	FA	GRAV
COMLAB	634	-3.00	380	-3.00	862	-3.00	4302	-3.00	1850	-3.00	2798	-3.00	FA	GRAV
COMLAB	924	0.36	675	0.24	734	1.09	1290	-0.70	1080	2.10	1190	0.74	FA	GRAV
COMLAB	852	-0.76	690	0.51	660	-0.18	1415	0.35	897	-0.92	1115	-0.03	FA	GRAV
COMLAB	918	0.26	662	0.00	685	0.25	1235	-1.16	919	-0.56	1045	-0.75	PR,AR	AAS
COMLAB	943	0.65	670	0.15	717	0.80	1490	0.98	1050	1.60	1230	1.15	FA	GRAV
COMLAB	936	0.54	683	0.38	705	0.58	1444	0.59	974	0.34	1178	0.62	FA	GRAV
COMLAB	962	0.94	712	0.90	739	1.18	1470	0.82	981	0.46	1180	0.64	FUS	XRF
COMLAB	941	0.62	661	-0.01	689	0.32	1380	0.06	952	-0.02	1150	0.33	FA,3A	AAS
COMLAB	1031	2.02	765	1.85	751	1.39	1585	1.78	1091	2.28	1318	2.06	FA	GRAV
COMLAB	1009	1.67	732	1.26	770	1.72	1512	1.17	1043	1.49	1247	1.33	FA	GRAV
COMLAB	906	0.08	675	0.24	683	0.21	1386	0.11	951	-0.03	1142	0.25	FA	GRAV
COMLAB	922	0.32	639	-0.41	702	0.54	1397	0.20	985	0.53	1206	0.91	FA	GRAV
COMLAB	291	-3.00	214	-3.00	266	-3.00	597	-3.00	163	-3.00	600	-3.00	AR	AAS
COMLAB	962	0.94	674	0.22	717	0.80	1480	0.90	976	0.38	1190	0.74	FA	GRAV
COMLAB	907	0.09	660	-0.03	690	0.33	1413	0.34	929	-0.39	1140	0.22	PR,AR	AAS
COMLAB	840	-0.95	421	-3.00	561	-1.89	891	-3.00	894	-0.97	1200	0.84	3A	MS
COMLAB	1158	3.00	943	3.00	938	3.00	1881	3.00	1745	3.00	1709	3.00	FA	GRAV
COMLAB	965	0.99	696	0.61	727	0.97	1499	1.06	1007	0.89	1220	1.05	FA	GRAV
COMLAB	924	0.36	691	0.52	685	0.25	1416	0.36	985	0.53	1200	0.84	AR	AAS
COMLAB	842	-0.92	694	0.58	640	-0.53	1457	0.71	924	-0.48	1060	-0.60	AR	
COMLAB	833	-1.06	598	-1.15	617	-0.93	1300	-0.61	883	-1.16	1080	-0.39	FA	AAS GRAV
COMLAB	936	0.54	725	1.14	684	0.23	1480	0.90	1010	0.94	1250	1.36	AR	AAS
COMLAB	761	-2.18	573	-1.60	599	-1.24	1253	-1.01	748	-3.00	974	-1.49	PR,AR	AAS
COMLAB	902	0.01	779	2.11	645	-0.44	1347	-0.22	909	-0.73	1085	-0.34	FA	GRAV
COMLAB	937	0.56	668	0.11	692	0.37	1433	0.50	967	0.23	1190	0.74	3A	AAS
COMLAB	419	-3.00	416	-3.00	383	-3.00	770	-3.00	582	-3.00	803	-3.00	FA,PR	GRAV
COMLAB	458	-3.00	384	-3.00	394	-3.00	836	-3.00	645	-3.00	882	-2.43	FA,PR	GRAV
COMLAB	817	-1.31	614	-0.86	606	-1.12	1247	-1.06	855	-1.62	1040	-0.81	FUS	OES
MINELAB	546	-3.00	484	-3.00	910	-3.00	2830	-3.00	1350	-3.00	1990	-3.00	AR	AAS
MINELAB	865	-0.56	607	-0.98	507	-3.00	1451	0.66	968	0.24	1142	0.25	FA,PR	AAS
MINELAB	956	0.85	705	0.78	715	0.77	1410	0.31	985	0.53	1174	0.58	FA	AAS, GRAV
MINELAB	917	0.25	666	0.08	676	0.09	1387	0.12	953	0.00	1146	0.29	AR	AAS
MINELAB	738	-2.53	535	-2.28	551	-2.07	1112	-2.19	752	-3.00	934	-1.90	FA,XRF	XRF
MINELAB	847	-0.83	490	-3.00	637	-0.58	1493	1.01	819	-2.21	1138	0.20	AR	AAS
MINELAB	965	0.99	710	0.87	740	1.20	1280	-0.78	960	0.12	1170	0.53	AD	AAS
MINELAB	172	-3.00	234	-3.00	198	-3.00	370	-3.00	368	-3.00	364	-3.00		
MINELAB	89	-3.00	105	-3.00	150	-3.00	366	-3.00	341	-3.00	468	-3.00	AR	AAS
MINELAB	949	0.74	676	0.26	719	0.83	1359	-0.12	907	-0.76	1110	-0.08	FA	GRAV
MINELAB	875	-0.41	634	-0.50	654	-0.29	1275	-0.82	913	-0.66	1078	-0.41	FA	GRAV
MINELAB	795	-1.65	570	-1.65	605	-1.13	1174	-1.67	766	-3.00	979	-1.43	FA	GRAV
MINELAB	284	-3.00	340	-3.00	335	-3.00	521	-3.00	613	-3.00	921	-2.03	PR,AR	AAS
MINELAB	870	-0.48	580	-1.47	680	0.16	1240	-1.12	870	-1.37	1070	-0.50	PR,AR	AAS
MINELAB	839	-0.96	584	-1.40	632	-0.67	1350	-0.19	912	-0.68	1050	-0.70	PR	AAS
MINELAB	889	-0.19	618	-0.79	646	-0.43	1530	1.32	925	-0.46	1070	-0.50	PR	AAS
MINELAB	939	0.59	637	-0.45	669	-0.03	1470	0.82	968	0.25	1095	-0.24		GRAV

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

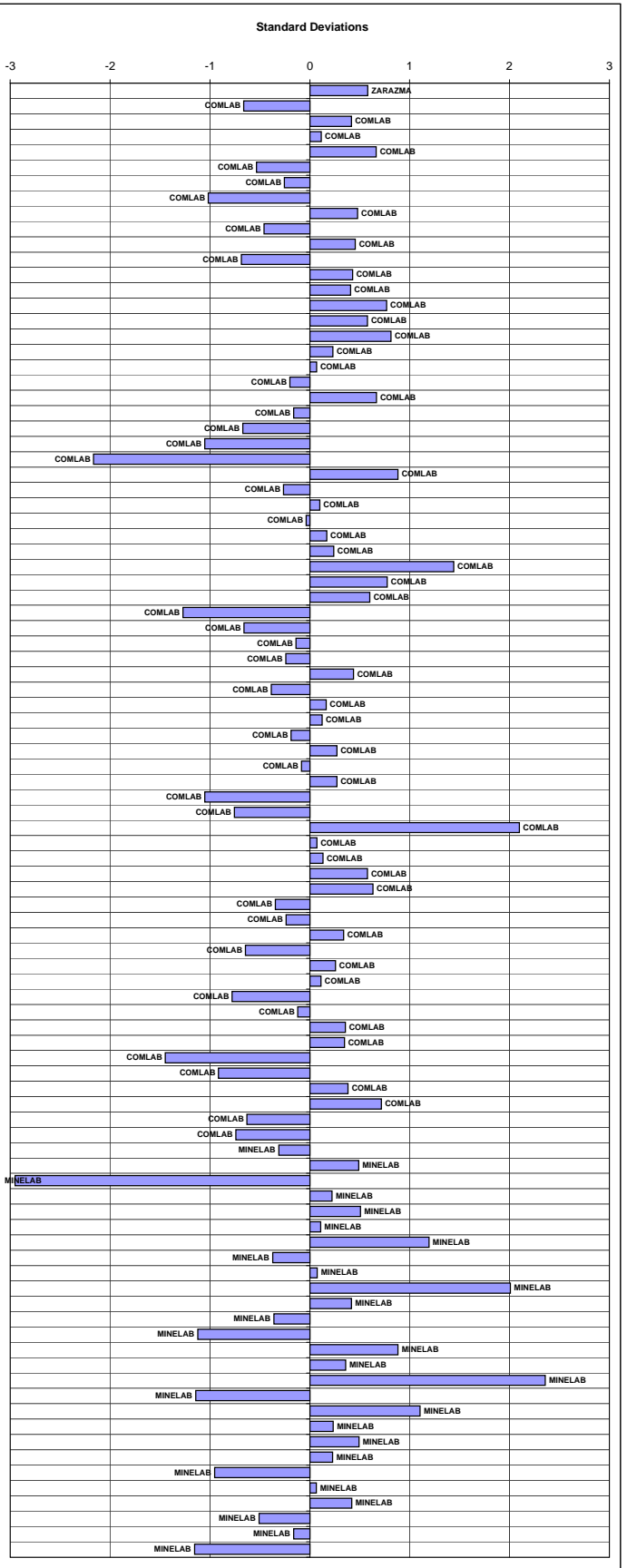
Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	6.0	10.2	20.4	15.0	2.5	4.0	2.0	1.2	0.9	3.8
STDEV (ppm)	0.7	0.9	1.6	1.0	0.4	0.5	0.3	0.2	0.8	0.5
95% CI (ppm)	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.3	0.1
95% CI (%)	2.60%	1.85%	1.61%	1.43%	3.91%	2.62%	3.26%	4.80%	32.76%	2.84%
MIN (ppm)	4.5	8.0	16.1	12.6	1.4	2.9	1.3	0.6	0.1	2.8
MEDIAN (ppm)	6.0	10.0	20.4	15.0	2.4	4.0	2.0	1.2	0.6	3.9
MAX (ppm)	8.0	12.5	24.0	17.5	3.6	5.0	2.7	1.7	2.8	5.0
IQR (ppm)	1.1	1.0	1.9	1.5	0.4	0.4	0.2	0.3	1.1	0.6
COUNT	88	85	89	83	74	77	69	63	32	79

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
Lab Reference	5.0	-1.39	9.0	-1.37	20.0	-0.27	16.0	1.01	3.0	0.93	2.0	-3.00	2.0	-0.05	1.0	-0.64	1.0	0.15	4.0	0.41	NAA	ES
BECCOUREL-NAA	5.0	-1.39	9.0	-1.37	20.0	-0.27	16.0	1.01	3.0	0.93	2.0	-3.00	2.0	-0.05	1.0	-0.64	1.0	0.15	4.0	0.41	AR	ES
ZARAZMA	5.5	-0.77	10.2	-0.02	19.4	-0.66	14.1	-0.82	2.2	-0.56	4.0	-0.11	2.0	-0.05	1.1	-0.34	0.1	-0.95	3.6	-0.41	AR	OES
COMLAB	6.0	-0.05	11.0	0.89	20.0	-0.27	15.0	0.05	3.0	0.93	4.0	-0.11	2.0	-0.05	1.0	-0.64	<1.0	bid	4.0	0.41	4A	OES
COMLAB	5.3	-0.99	9.8	-0.47	18.3	-1.36	14.6	-0.34	1.9	-1.12	3.5	-1.02	1.6	-1.13	1.2	-0.05	<0.5	bid	3.1	-1.44	AR,4A	ES
COMLAB	6.1	0.09	11.3	1.23	21.7	0.81	16.5	1.50	2.9	0.74	4.6	0.98	1.9	-0.32	1.1	-0.34	<0.1	bid	4.1	0.61	AR	MS,OES
COMLAB	5.8	-0.32	9.6	-0.70	19.2	-0.78	14.3	-0.63	2.4	-0.19	4.2	0.25	2.1	0.22	1.3	0.25	<0.3	bid	4.3	1.02	4A	MS,OES
COMLAB	5.7	-0.45	10.1	-0.13	19.6	-0.53	14.7	-0.24	2.4	-0.19	4.2	0.25	2.0	-0.05	1.3	0.25	<4.0	bid	3.6	-0.41	4A	AAS
COMLAB	<1.0	-3.00	4.0	3.00	16.1	-2.79	8.9	-3.00	<1.0	-3.00	<1.0	-3.00	<1.0	-3.00	<1.0	bid	<1.0	bid	<1.0	3.00	1A,AR	AAS
COMLAB	6.4	0.49	10.9	0.78	22.0	1.00	15.9	0.92	2.6	0.18	4.4	0.61	2.0	-0.05	1.5	0.84	0.4	-0.58	4.3	1.02	AR	AAS
COMLAB	6.6	0.76	9.8	-0.47	19.6	-0.53	16.2	1.21	2.4	-0.19	4.2	0.25	2.0	-0.05	1.0	-0.64	<2.0	bid	4.4	1.23	AR	OES
COMLAB	6.8	1.02	11.3	1.23	23.1	1.70	19.3	3.00	2.6	0.18	4.1	0.07	2.2	0.49	1.3	0.25	<0.2	bid	4.2	0.82	AR	OES
COMLAB	6.3	0.35	12.3	2.36	22.9	1.57	18.2	3.00	2.9	0.74	5.0	1.71	2.5	1.30	1.4	0.54	0.6	-0.34	3.8	0.00	4A	OES
COMLAB	5.4	-0.85	8.6	-1.83	17.6	-1.80	12.6	-2.27	2.1	-0.75	3.6	-0.84	1.7	-0.86	1.0	-0.64	0.3	-0.71	3.1	-1.44	4A	MS
COMLAB	6.0	-0.05	10.8	0.66	21.1	0.43	15.6	0.63	2.6	0.18	3.9	-0.30	2.4	1.03	1.0	-0.64	<0.5	bid	3.9	0.20	4A	OES
COMLAB	5.4	-0.85	10.6	0.44	20.9	0.30	14.9	-0.05	1.7	-1.49	2.9	-2.12	1.1	-3.00	0.6	-1.82	<0.5	bid	3.7	-0.21	4A	ES
COMLAB	6.3	0.35	10.8	0.66	21.3	0.55	15.4	0.44	2.6	0.18	4.4	0.61	2.6	1.57	1.6	1.13	<0.5	bid	4.2	0.82	AR	ES
COMLAB	5.5	-0.72	10.5	0.32	22.2	1.13	14.4	-0.53	2.3	-0.38	3.9	-0.30	2.4	1.03	<0.5	bid	<0.5	bid	3.8	0.00	4A	OES
COMLAB	5.9	-0.18	10.1	-0.13	21.2	0.49	14.6	-0.34	2.6	0.18	3.9	-0.30	2.3	0.76	1.5	0.84	<0.5	bid	3.9	0.20	4A	OES
COMLAB	5.8	-0.32	10.3	0.10	21.5	0.68	15.5	0.53	2.5	0.00	4.2	0.25	2.1	0.22	1.2	-0.05	<0.5	bid	4.0	0.41	4A	MS,OES
COMLAB	6.0	-0.05	10.5	0.32	21.1	0.43	15.0	0.05	2.4	-0.19	3.7	-0.66	2.6	1.57	1.1	-0.34	<0.5	bid	3.7	-0.21	4A	OES
COMLAB	6.0	-0.05	10.0	-0.24	21.0	0.36	16.0	1.01	2.0	-0.93	4.0	-0.11	2.0	-0.05	1.0	-0.64	<1.0	bid	3.0	-1.64	AR	AAS
COMLAB	5.9	-0.18	10.9	0.78	22.0	1.00	15.7	0.73	2.7	0.37	4.2	0.25	2.0	-0.05	1.1	-0.34	0.2	-0.83	4.1	0.61	AR	OES
COMLAB	5.7	-0.45	10.8	0.66	21.4	0.62	15.6	0.63	2.2	-0.56	4.1	0.07	2.0	-0.05	1.1	-0.34	<0.2	bid	3.9	0.20	AR	OES
COMLAB	6.0	-0.05	10.0	-0.24	20.0	-0.27	16.0	1.01	2.0	-0.93	6.0	3.00	<2.0	bid	<2.0	bid	<2.0	bid	6.0	3.00	3A	OES
COMLAB	5.8	-0.32	9.7	-0.58	19.6	-0.53	14.8	-0.14	2.6	0.18	4.1	0.07	1.9	-0.32	1.1	-0.34	0.2	-0.83	4.0	0.41	4A	ES
COMLAB	7.0	1.27	8.4	-2.06	19.9	-0.36	13.8	-1.15	5.0	3.00	7.1	3.00	4.0	3.00	4.1	3.00	2.6	2.09	5.4	3.00	AR	AAS
COMLAB	6.0	-0.05	10.0	-0.24	21.0	0.36	15.0	0.05	3.0	0.93	4.0	-0.11	2.0	-0.05	<1.0	bid	<1.0	bid	4.0	0.41	1A	AAS
COMLAB	5.0	-1.39	10.0	-0.24	19.0	-0.91	14.0	-0.91	3.0	0.93	4.0	-0.11	2.0	-0.05	1.0	-0.64	<1.0	bid	nr	nr	4A	MS
COMLAB	6.6	0.76	10.3	0.10	21.4	0.62	15.9	0.92	2.6	0.09	4.0	-0.21	2.2	0.36	1.6	1.13	0.5	-0.52	4.5	1.43	1A	OES
COMLAB	5.7	-0.45	9.9	-0.36	20.0	-0.27	14.1	-0.82	3.4	1.67	3.8	-0.48	1.9	-0.32	0.9	-0.93	<0.1	bid	3.3	-1.03	4A	MS
COMLAB	6.0	-0.05	9.5	-0.81	20.0	-0.27	14.5	-0.43	2.5	0.00	4.0	-0.11	2.0	-0.05	1.5	0.84	<0.5	bid	4.0	0.41	4A	OES
COMLAB	6.1	0.09	10.4	0.21	20.9	0.30	15.4	0.44	2.4	-0.19	4.0	-0.11	2.0	-0.05	1.1	-0.34	<0.2	bid	3.7	-0.21	3A,4A	AAS
COMLAB	5.0	-1.39	10.0	-0.24	20.0	-0.27	16.0	1.01	3.0	0.93	4.0	-0.11	2.0	-0.05	1.0	-0.64	<1.0	bid	3.0	-1.64	AR	AAS
COMLAB	5.9	-0.18	10.2	-0.02	19.7	-0.46	14.4	-0.53	2.4	-0.19	3.9	-0.30	2.0	-0.05	1.3	0.25	<0.5	bid	3.7	-0.21	4A	AAS
COMLAB	10.7	3.00	21.1	3.00	40.4	3.00	30.0	3.00	6.5	3.00	9.1	3.00	4.2	3.00	2.4	3.00	1.8	1.14	7.7	3.00	4A	AAS
COMLAB	6.0	-0.05	10.0	-0.24	21.0	0.36	16.0	1.01	2.0	-0.93	4.0	-0.11	2.0	-0.05	<1.0	bid	<1.0	bid	4.0	0.41	4A	OES
COMLAB	6.3	0.33	10.9	0.72	21.9	0.94	15.1	0.16	2.6	0.24	4.3	0.45	1.9	-0.24	1.6	1.25	0.1	-0.96	3.8	-0.09	4A	MS
COMLAB	5.4	-0.85	9.4	-0.92	19.0	-0.91	14.2	-0.72	2.5	0.00	3.9	-0.30	1.9	-0.32	1.0	-0.64	<0.5	bid	3.5	-0.62	4A	OES
COMLAB	6.0	-0.05	10.4	0.21	20.4	-0.02	14.9	-0.05	2.6	0.18	3.9	-0.30	2.0	-0.05	1.2	-0.05	<0.1	bid	3.6	-0.41	2A	OES
COMLAB	7.0	1.29	11.0	0.89	23.0	1.64	17.0	1.98	5.0	3.00	5.0	1.71	3.0	3.00	3.0	3.00	1.0	0.15	4.0	0.41	3A	AAS
COMLAB	6.0	-0.05	10.0	-0.24	21.1	0.43	16.0	1.01	2.5	0.00	4.1	0.07	2.1	0.22	1.5	0.84	<0.5	bid	4.3	1.02	4A	OES
COMLAB	5.8	-0.28	10.2	-0.02	21.2	0.49	14.6	-0.34	2.3	-0.38	4.3	0.43	2.1	0.09	1.6	1.02	<1.0	bid	3.3	-1.09	AR	OES
COMLAB	5.7	-0.45	9.9	-0.36	19.9	-0.34	14.5	-0.43	2.2	-0.56	3.8	-0.48	1.9	-0.32	1.0	-0.64	0.1	-0.95	3.9	0.20	3A	MS
COMLAB	5.5	-0.72	9.3	-1.03	20.4	-0.02	14.8	-0.14	2.2	-0.56	3.4	-1.21	1.9	-0.32	1.0	-0.64	<0.2	bid	3.5	-0.62	4A	AAS
COMLAB	6.6	0.76	10.0	-0.24	20.9	0.30	14.6	-0.34	2.6	0.18	4.4	0.61	1.9	-0.32	1.3	0.25	<0.5	bid	4.0	0.41	4A	AAS
COMLAB	7.8	2.30	13.5	3.00	24.0	2.27	17.5	2.46	5.0	3.00	6.2	3.00	<5.0	bid	<5.0	bid	<5.0	bid	6.2	3.00	AR	ES
COMLAB	7.8	2.36	80.1	3.00	43.5	3.00	29.4	3.00	9.5	3.00	49.1	3.00	8.1	3.00	7.5	3.00	5.0	3.00	37.4	3.00	3A	OES
COMLAB	5.5	-0.72	9.4	-0.92	19.3	-0.72	13.6	-1.30	2.0	-0.93	3.5	-1.02	1.6	-1.13	1.0	-0.64	<1.0	bid	2.8	-2.06	1A	OES
COMLAB	5.3	-0.99	9.5	-0.81	19.1	-0.85	14.1	-0.82	2.3	-0.38	3.8	-0.48	1.9	-0.32	1.1	-0.34	<0.5	bid	3.8	0.00	3A	AAS
COMLAB	6.0	-0.05	10.0	-0.24	22.0	1.00	15.0	0.05	3.0	0.93	4.0	-0.11	2.0	-0.05	1.0	-0.64	<1.0	bid	4.0	0.41	4A	AAS
COMLAB	5.5	-0.72	9.9	-0.36	19.4	-0.66	14.1	-0.82	2.4	-0.19	3.9	-0.30	1.9	-0.32	1.1	-0.34	<0.3	bid	4.2	0.82	4A	AAS
COMLAB	5.5	-0.72	9.2	-1.15	18.7	-1.10	13.9	-1.01	2.2	-0.56	3.9	-0.30	1.7	-0.86	1.2	-0.05	0.2	-0.83	3.1	-1.44	4A	MS
COMLAB	5.6	-0.58	10.6	0.44	17.8	-1.67	14.4															

Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	1233	2263	10089	6214	3001	1035	941	1349	124	17334
STDEV (ppm)	49	103	400	224	121	46	43	69	10	694
95% CI (ppm)	10	21	85	47	25	10	9	14	2	150
95% CI (%)	0.83%	0.93%	0.84%	0.76%	0.83%	0.92%	0.99%	1.06%	1.65%	0.87%
MIN (ppm)	1100	1998	9300	5751	2700	915	844	1181	100	15655
MEDIAN (ppm)	1233	2263	10055	6200	3000	1040	941	1359	123	17340
MAX (ppm)	1361	2512	11150	6833	3343	1149	1060	1500	145	19207
IQR (ppm)	59	135	459	259	157	69	61	95	12	866
COUNT	91	93	87	87	92	90	85	91	87	83

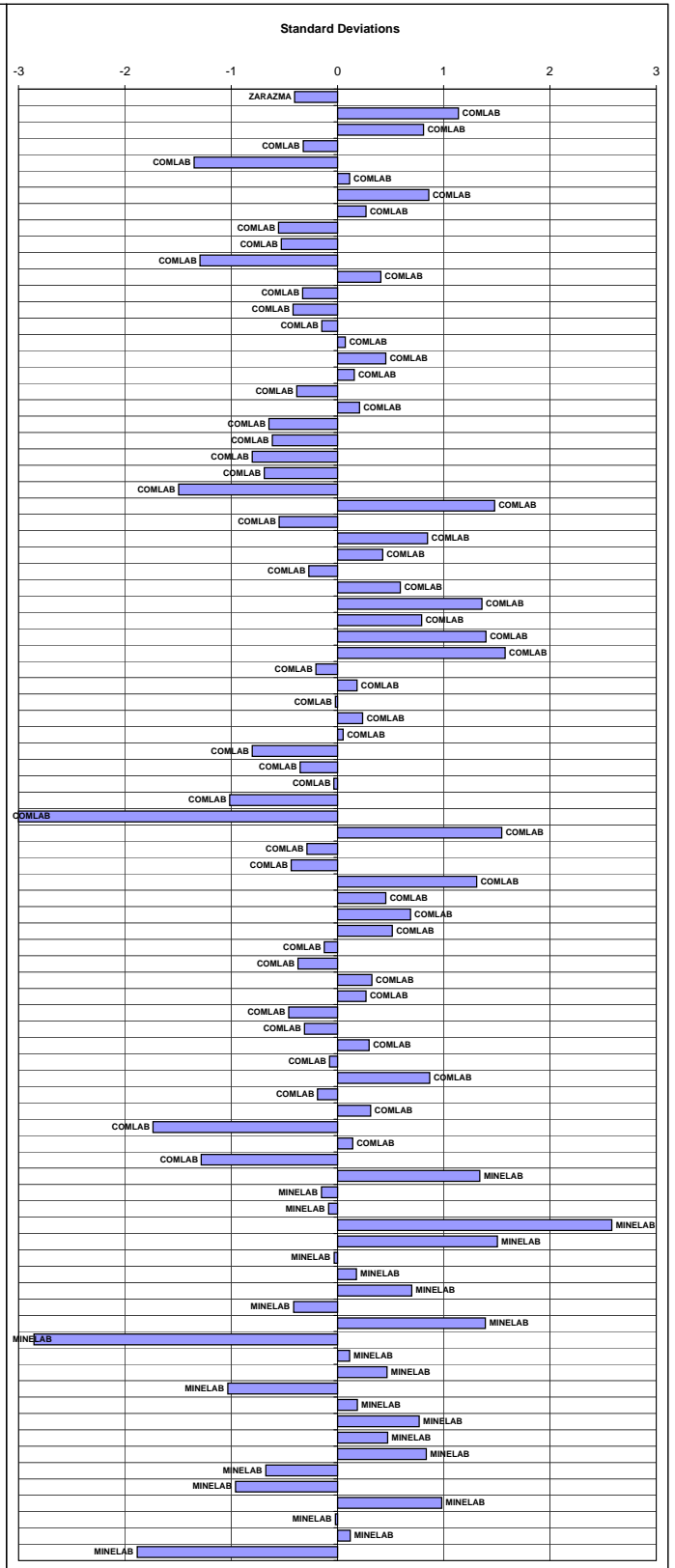
Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	1255	0.43	2346	0.81	10472	0.96	6341	0.57	3040	0.32	1040	0.09	979	0.86	1380	0.45	129	0.51	17889	0.80	AR	ES
COMLAB	1125	-2.19	2218	-0.44	10176	0.22	6304	0.40	2784	-1.79	996	-0.86	905	-0.83	1260	-1.28	116	-0.78	17984	0.94	4A	OES
COMLAB	1269	0.73	2381	1.15	9670	-1.05	6570	1.59	2979	-0.18	1082	1.02	936	-0.12	1431	1.19	129	0.57	16840	-0.71	AR,4A	ES
COMLAB	1287	1.10	2309	0.45	9520	-1.42	6007	-0.93	3182	1.49	1072	0.80	953	0.27	1343	-0.09	118	-0.53	17340	0.01	AR	MS,OES
COMLAB	1200	-0.67	2390	1.24	9790	-0.75	6080	-0.60	3070	0.57	1100	1.41	1060	2.74	1450	1.46	132	0.88	17600	0.38	4A	MS,OES
COMLAB	1211	-0.45	2211	-0.50	9979	-0.27	6242	0.12	2827	-1.43	987	-1.05	912	-0.67	1295	-0.77	125	0.15	17010	-0.47	4A	AAS
COMLAB	810	-3.00	2300	0.36	11150	2.65	6590	1.68	3070	0.57	300	-3.00	190	-3.00	1040	-3.00	180	-3.00	18170	1.21	1A,AR	AAS
COMLAB	1246	0.26	2207	-0.54	10187	0.25	5918	-1.32	2742	-2.13	915	-2.62	897	-1.02	1295	-0.77	109	-1.51	16805	-0.76	AR	AAS
COMLAB	1390	3.00	2280	0.17	9620	-1.17	6290	0.34	3050	0.40	1090	1.19	1000	1.35	1320	-0.41	133	0.98	16600	-1.06	AR	OES
COMLAB	1230	-0.06	2220	-0.42	9410	-1.70	6200	-0.06	2840	-1.33	1040	0.10	950	0.20	1260	-1.28	125	0.15	17200	-0.19	AR	OES
COMLAB	1210	-0.47	2450	1.82	10341	0.63	6290	0.34	3040	0.32	1130	2.06	966	0.57	1380	0.45	122	-0.16	16624	-1.02	4A	OES
COMLAB	1215	-0.37	2165	-0.95	9593	-1.24	5974	-1.07	2921	-0.66	1004	-0.88	895	-1.06	1286	-0.90	124	0.05	17364	0.04	4A	MS
COMLAB	1250	0.34	2400	1.33	10000	-0.22	6200	-0.06	2980	-0.17	1100	1.41	967	0.59	1380	0.45	128	0.46	17450	0.17	4A	OES
COMLAB	1250	0.34	2300	0.36	10100	0.03	6370	0.70	3100	0.82	1070	0.75	952	0.25	1400	0.74	120	-0.37	17650	0.46	4A	ES
COMLAB	1250	0.34	2370	1.04	>10000	ald	6370	0.70	3120	0.98	1060	0.54	965	0.55	1405	0.81	135	1.19	>10000	ald	AR	ES
COMLAB	1270	0.75	2320	0.56	10200	0.28	6170	0.20	3130	1.06	1030	-0.12	1090	3.00	1370	0.31	121	-0.26	17600	0.38	4A	OES
COMLAB	1290	1.15	2210	-0.51	10500	1.03	6350	0.61	3140	1.15	1080	0.97	1020	1.82	1400	0.74	136	1.28	17250	-0.12	4A	OES
COMLAB	1230	-0.06	2270	0.07	10150	0.15	6330	0.52	3080	0.65	1060	0.54	930	-0.26	1300	-0.70	132	0.88	17700	0.53	4A	MS,OES
COMLAB	1220	-0.27	2270	0.07	10050	-0.10	6000	-0.96	2920	-0.67	1050	0.32	1000	1.35	1360	0.16	125	0.15	17750	0.60	4A	OES
COMLAB	1180	-1.08	2110	-0.51	9740	-0.87	6170	-0.20	3090	0.73	992	-0.95	961	0.46	1320	-0.41	125	0.15	17800	0.67	AR	AAS
COMLAB	1270	0.75	2420	1.53	10300	0.53	6330	0.52	3080	0.65	1095	1.30	960	0.43	1395	0.67	120	-0.37	17800	0.67	AR	OES
COMLAB	1205	-0.57	2390	1.24	10000	-0.22	6160	-0.24	2990	-0.09	1045	0.21	938	-0.07	1220	-1.85	124	0.05	17300	-0.05	4A	OES
COMLAB	1176	-1.16	2160	-1.00	9880	-0.52	6138	-0.34	2890	-0.91	1032	-0.07	892	-1.13	1300	-0.70	124	0.05	16700	-0.91	3A	OES
COMLAB	1201	-0.65	2121	-1.38	9710	-0.95	6070	-0.64	2753	-2.04	1008	-0.60	874	-1.55	1192	-2.25	120	-0.37	17280	-0.08	4A	ES
COMLAB	1074	-3.00	1650	-3.00	9421	-1.67	6400	0.83	2392	-3.00	871	-3.00	796	-3.00	1091	-3.00	111	-1.26	16246	-1.57	AR	AAS
COMLAB	1300	1.36	2350	0.85	10050	-0.10	6410	0.87	3040	0.32	1080	0.97	990	1.12	1410	0.88	130	0.67	16840	1.88	1A	AAS
COMLAB	1200	-0.67	2200	-0.61	10400	0.78	6100	-0.51	3000	-0.01	1000	-0.77	900	-0.95	1400	0.74	120	-0.37	nr	nr	4A	MS
COMLAB	1280	0.95	2290	0.26	10125	0.09	6140	-0.33	3130	1.06	1000	-0.77	975	0.78	1390	0.60	118	-0.57	16597	-1.06	FUS	OES
COMLAB	1220	-0.27	2270	0.07	9880	-0.52	6140	-0.33	3000	-0.01	1040	0.10	972	0.71	1370	0.31	120	-0.37	17300	-0.05	4A	OES
COMLAB	1276	0.87	2314	0.50	9752	-0.84	6099	-0.52	2963	-0.31	1042	0.14	955	0.32	1345	-0.05	138	1.50	17400	0.10	4A	OES
COMLAB	1258	0.50	2240	-0.22	10300	0.53	6172	-0.19	3077	0.63	1043	0.17	952	0.25	1355	0.09	126	0.26	17600	0.38	3A,4A	AAS
COMLAB	1319	1.75	2478	2.09	10529	1.10	6489	1.23	3186	1.52	1078	0.93	924	3.00	1397	0.70	169	3.00	16702	-0.91	4A	OES
COMLAB	1289	1.13	2410	1.43	10146	0.14	6162	-0.23	3008	0.06	1077	0.91	1270	0.66	1454	1.52	133	0.98	18133	1.15	3A	MS
COMLAB	1256	0.46	2306	0.42	10350	0.65	6348	0.60	3096	0.78	1072	0.80	979	0.87	1382	0.48	128	0.46	17662	0.47	4A	AAS
COMLAB	1150	-1.69	2130	-1.29	9315	-1.93	5780	-1.94	2835	-1.37	952	-1.82	890	-1.18	1280	-0.99	142	1.92	15655	-2.42	AR	OES
COMLAB	1168	-1.32	2348	0.83	908	-3.00	63280	3.00	2916	-0.70	976	-1.29	852	-2.05	1288	-0.87	117	-0.68	17000	-0.48	4A	AAS
COMLAB	1244	0.22	2260	-0.03	9953	-0.34	6121	-0.42	2955	-0.38	1051	0.34	929	-0.28	1350	0.02	121	-0.26	17162	-0.25	4A	OES
COMLAB	1181	-1.06	2255	-0.08	10265	0.44	6073	-0.63	2946	-0.45	1041	0.12	928	-0.30	1341	-0.11	130	0.67	16644	-0.99	4A	OES
COMLAB	1249	0.32	2337	0.72	10310	0.55	6271	0.25	3083	0.68	1044	0.19	960	0.43	1386	0.54	132	0.88	17210	-0.18	4A	OES
COMLAB	1210	-0.47	2210	-0.51	9690	-1.00	6070	-0.64	2930	-0.58	1030	-0.12	947	0.13	1260	-1.28	134	1.09	17000	-0.48	2A	OES
COMLAB	1150	-1.69	1998	-2.57	12725	3.00	7888	3.00	3738	3.00	924	-2.43	933	-0.19	1038	-3.00	119	-0.47	22398	3.00	3A	AAS
COMLAB	1231	-0.04	2190	-0.71	9970	-0.30	6245	0.14	3032	0.26	1040	0.10	949	0.18	1493	2.08	120	-0.37	17254	-0.11	4A	OES
COMLAB	1237	0.08	2237	-0.25	10055	-0.08	6202	-0.05	2976	-0.21	1015	-0.44	958	0.39	1316	-0.47	120	-0.37	17012	-0.46	AR	OES
COMLAB	1202	-0.63	2226	-0.36	10423	0.84	6391	0.79	2989	-0.10	1053	0.38	936	-0.12	1378	0.42	127	0.36	18122	1.14	3A	MS,OES
COMLAB	1197	-0.73	2173	-0.87	9831	-0.64	6031	-0.82	2881	-0.99	1078	0.93	941	0.00	1361	0.18	215	3.00	16723	-0.88	4A	AAS
COMLAB	1256	0.46	2243	-0.19	10220	0.33	6323	0.49	3039	0.31	1059	0.51	957	0.36	1360	0.16	123	-0.06	17559	0.32	4A	AAS
COMLAB	1169	-1.30	2118	-1.41	10002	-0.22	5862	-1.57	2846	-1.28	955	-1.75	899	-0.97	1282	-0.96</						



Lead Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	152	1895	3522	2760	105	300	135	265	27	505
STDEV (ppm)	11	95	203	130	11	20	13	23	5	33
95% CI (ppm)	2	21	44	28	2	4	3	5	1	7
95% CI (%)	1.62%	1.12%	1.25%	1.03%	2.22%	1.40%	2.07%	1.89%	4.23%	1.48%
MIN (ppm)	132	1640	3000	2460	77	247	100	205	16	412
MEDIAN (ppm)	150	1900	3500	2732	104	300	135	267	27	507
MAX (ppm)	184	2100	4073	3100	134	340	171	320	41	596
IQR (ppm)	13	102	215	157	11	24	14	26	6	44
COUNT	82	77	83	82	81	84	82	85	74	78

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	143	-0.82	1893	-0.02	3383	-0.68	2659	-0.77	104	-0.18	293	-0.34	123	-0.93	248	-0.72	28	0.16	514	0.26	AR	ES
COMLAB	179	2.37	1824	-0.75	3223	-1.47	2469	-2.23	142	3.00	317	0.89	175	3.00	285	0.86	60	3.00	596	2.72	4A	OES
COMLAB	156	0.33	2023	1.35	3733	1.04	2920	1.23	106	0.06	320	1.04	143	0.63	296	1.33	28	0.16	536	0.92	AR,4A	ES
COMLAB	143	-0.82	1910	0.15	3643	0.60	2813	0.40	99	-0.56	280	-1.03	120	-1.18	268	0.15	26	-0.32	485	-0.60	4A	MS,OES
COMLAB	139	-1.17	1690	-2.17	3090	-2.12	2530	-1.76	93	-1.16	272	-1.42	123	-0.93	227	-1.62	26	-0.24	475	-0.90	4A	MS,OES
COMLAB	151	-0.11	1911	0.17	3539	0.08	2757	-0.02	108	0.25	305	0.27	138	0.24	271	0.26	35	1.56	453	-1.56	4A	AAS
COMLAB	150	-0.20	2210	3.00	3950	2.11	2930	1.30	100	-0.50	290	-0.49	130	-0.38	270	0.22	30	0.56	650	3.00	1A,AR	AAS
COMLAB	154	0.16	1949	0.56	3408	-0.56	2658	-0.78	114	0.81	301	0.07	135	0.01	254	-0.46	46	3.00	502	-0.10	AR	AAS
COMLAB	154	0.16	1650	-2.59	3030	-2.42	2680	-0.61	98	-0.69	298	-0.09	141	0.47	224	-1.74	22	-1.03	641	3.00	AR	OES
COMLAB	143	-0.82	1760	-1.43	3430	-0.45	2640	-0.92	101	-0.41	288	-0.60	131	-0.31	250	-0.63	25	-0.44	529	0.71	AR	OES
COMLAB	115	-3.00	1940	0.47	3420	-0.50	2680	-0.61	84	-2.00	250	-2.54	111	-1.86	207	-2.47	25	-0.44	506	0.02	4A	OES
COMLAB	156	0.33	1902	0.07	3597	0.37	2810	0.38	113	0.71	314	0.73	136	0.08	273	0.35	31	0.76	515	0.29	4A	MS
COMLAB	149	-0.29	1865	-0.32	3390	-0.65	2600	-1.23	103	-0.22	297	-0.14	144	0.71	253	-0.50	30	0.56	465	-1.20	4A	OES
COMLAB	149	-0.29	1815	-0.85	3440	-0.40	2690	-0.54	104	-0.13	304	0.22	134	0.07	258	-0.29	33	1.16	405	-3.00	4A	ES
COMLAB	148	-0.38	1900	0.05	3550	0.14	2740	-0.15	98	-0.69	298	-0.09	133	-0.15	269	0.18	24	-0.64	514	0.26	AR	ES
COMLAB	148	-0.38	1880	-0.16	3450	-0.35	2670	-0.69	108	0.25	291	-0.44	152	1.33	266	0.05	27	-0.04	544	1.16	4A	OES
COMLAB	162	0.86	1915	0.21	3500	-0.11	2810	0.38	106	0.06	317	0.89	144	0.71	267	0.09	36	1.76	495	-0.31	4A	OES
COMLAB	150	-0.20	1880	-0.16	3610	0.43	2760	0.00	112	0.62	315	0.78	132	-0.23	255	-0.42	32	0.96	498	-0.22	4A	MS,OES
COMLAB	145	-0.64	1840	-0.58	3470	-0.26	2570	-1.46	101	-0.41	289	-0.55	144	0.71	260	-0.21	31	0.76	465	-1.20	4A	OES
COMLAB	153	0.07	1860	-0.37	3460	-0.30	2680	-0.61	113	0.71	303	0.17	140	0.39	275	0.44	27	-0.04	559	1.61	AR	AAS
COMLAB	145	-0.64	1810	-0.90	3360	-0.80	2600	-1.23	103	-0.22	285	-0.75	130	-0.38	253	-0.50	25	-0.44	486	-0.57	AR	OES
COMLAB	142	-0.91	1860	-0.37	3380	-0.70	2660	-0.77	97	-0.79	297	-0.14	125	-0.77	249	-0.68	24	-0.64	493	-0.37	AR	OES
COMLAB	140	-1.08	1880	-0.16	3520	-0.01	2840	0.61	100	-0.50	275	-1.26	120	-1.16	240	-1.06	20	-1.43	440	-1.95	3A	OES
COMLAB	165	1.13	1727	-1.78	3270	-1.24	2650	-0.84	101	-0.41	281	-0.95	138	0.24	230	-1.49	27	-0.04	455	-1.50	4A	ES
COMLAB	138	-1.24	1515	3.00	3348	-0.86	2685	-0.57	77	-2.66	278	-1.11	113	-1.71	232	-1.42	22	-1.11	464	-1.24	AR	AAS
COMLAB	180	2.46	2010	1.21	3610	0.43	2850	0.69	130	2.31	340	2.06	160	1.95	320	2.36	30	0.56	530	0.74	1A	AAS
COMLAB	150	-0.20	1800	-1.01	3400	-0.60	2700	-0.46	100	-0.20	295	-0.24	135	0.01	230	-1.49	25	-0.44	nr	nr	4A	MS
COMLAB	162	0.86	1905	0.10	3600	0.38	2780	0.15	127	2.03	295	-0.24	142	0.55	315	2.14	30	0.56	570	1.94	FUS	OES
COMLAB	160	0.69	1900	0.05	3550	0.14	2700	-0.46	114	0.81	310	0.53	147	0.94	285	0.86	30	0.56	510	0.14	4A	MS
COMLAB	146	-0.55	1840	-0.58	3528	0.03	2716	-0.34	96	-0.88	306	0.32	134	-0.07	266	0.05	24	-0.64	504	-0.04	4A	OES
COMLAB	156	0.33	1843	-0.55	3776	1.25	2939	1.37	107	1.15	308	0.43	140	0.39	264	-0.03	33	1.16	553	1.43	3A,4A	AAS
COMLAB	177	2.19	1891	-0.04	3425	-0.48	2704	-0.43	133	2.59	330	1.55	165	2.34	305	1.72	49	3.00	544	1.16	3A	MS
COMLAB	155	0.24	1992	1.02	3632	0.54	2834	0.57	112	0.62	325	1.30	142	0.55	282	0.73	35	1.56	nr	nr	4A	AAS
COMLAB	160	0.69	2100	2.17	3900	1.86	3090	2.53	115	0.90	319	0.99	149	1.09	260	-0.21	32	0.96	727	3.00	AR	OES
COMLAB	174	1.93	2040	1.53	3616	0.46	2776	0.12	138	3.00	413	3.00	156	1.64	294	1.25	216	3.00	500	-0.16	4A	AAS
COMLAB	148	-0.38	1848	-0.50	3450	-0.35	2719	-0.31	102	-0.32	304	0.22	132	-0.23	263	-0.08	26	-0.24	510	0.14	4A	OES
COMLAB	150	-0.22	1860	-0.37	3514	-0.04	2650	-0.85	145	3.00	299	-0.05	135	-0.03	276	0.46	33	1.12	466	-1.17	4A	MS
COMLAB	154	0.16	1845	-0.53	3416	-0.52	2718	-0.32	109	0.34	302	0.12	139	0.32	264	-0.03	32	0.96	483	-0.66	4A	OES
COMLAB	162	0.86	1920	0.26	3430	-0.45	2810	0.38	108	0.25	317	0.89	144	0.71	261	-0.16	24	-0.64	514	0.26	2A	OES
COMLAB	147	-0.46	1786	-1.15	3445	-0.38	2793	0.25	105	-0.04	307	0.38	143	0.63	279	0.61	30	0.56	510	0.14	4A	OES
COMLAB	146	-0.55	1839	-0.59	3459	-0.31	2691	-0.53	99	-0.60	294	-0.29	128	-0.54	254	-0.46	20	-1.35	412	-2.79	AR	OES
COMLAB	145	-0.64	1905	0.10	3412	-0.54	2642	-0.91	102	-0.32	293	-0.34	131	-0.31	254	-0.46	27	-0.04	503	-0.07	3A	MS,OES
COMLAB	149	-0.29	1896	0.01	3475	-0.23	2751	-0.07	105	-0.04	298	-0.09	136	0.08	270	0.22	27	-0.04	508	0.08	4A	AAS
COMLAB	142	-0.91	1708	-1.98	3474	-0.24	2573	-1.43	103	-0.22	269	-1.57	171	2.81	225	-1.70	<10	3.00	442	-1.89	AR	ICP
COMLAB	5	-3.00	1166	-3.00	2625	-3.00	1786	-3.00	7	-3.00	44	-3.00	2	-3.00	21	-3.00	1	-3.00	226	-3.00	FUS	ICP
COMLAB	175	2.02	2038	1.51	3803	1.38	2857	0.74	134	2.88	329	1.50	162	2.11	279	0.61	35	1.46	554	1.46	3A	OES
COMLAB	149	-0.29	1906	0.12	3788	1.31	2771	0.08	101	-0.41	297	-0.14	133	-0.15	238	-1.15	21	-1.23	471	-1.02	3A	OES
COMLAB	146	-0.55	1881	-0.15	3417	-0.52	2724	-0.28	104	-0.13	311	0.58	139	0.32	184	-3.00	25	-0.50	501	-0.13	4A	OES
COMLAB	163	0.95	1880	-0.16	3480	-0.21	2920	1.23	123	1.65	321	1										



Zinc Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	629	1926	14291	12194	367	567	453	234	71	841
STDEV (ppm)	37	129	697	509	24	33	43	99	21	80
95% CI (ppm)	8	28	157	117	5	7	9	21	4	17
95% CI (%)	1.30%	1.44%	1.10%	0.96%	1.47%	1.26%	1.99%	8.80%	6.23%	2.05%
MIN (ppm)	532	1597	12581	10859	300	494	341	96	37	645
MEDIAN (ppm)	630	1940	14264	12141	365	568	451	205	75	844
MAX (ppm)	725	2288	16200	13550	429	640	550	472	120	1050
IQR (ppm)	43	156	680	567	32	38	45	190	36	89
COUNT	81	85	77	74	80	83	87	90	84	83

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	670	1.09	2050	0.96	14700	0.59	12200	0.01	380	0.55	590	0.68	480	0.64	370	1.37	100	1.38	850	0.12	NAA	ES
ZARAZMA	593	-0.97	1901	-0.19	13089	-1.72	12439	0.48	369	0.08	538	-0.91	439	-0.33	187	-0.48	85	0.66	854	0.17	AR	ES
COMLAB	596	-0.89	1854	-0.56	14650	0.52	12578	0.75	353	-0.56	688	3.00	474	0.50	148	-0.87	82	0.51	878	0.47	4A	OES
COMLAB	657	0.74	1820	-0.82	14200	-0.13	11900	-0.58	372	0.22	609	1.26	473	0.47	353	1.20	88	0.80	816	-0.31	AR,4A	ES
COMLAB	619	-0.27	2117	1.48	15600	1.88	13200	1.98	339	-1.13	537	-0.92	431	-0.51	343	1.10	71	-0.02	811	-0.37	4A	MS,OES
COMLAB	578	-1.37	1640	-2.21	13700	-0.85	11800	-0.77	325	-1.71	514	-1.62	408	-1.06	273	0.39	74	0.13	789	-0.65	4A	MS,OES
COMLAB	615	-0.38	1895	-0.24	14050	-0.35	11840	-0.69	364	-0.11	558	-0.29	448	-0.12	177	-0.58	79	0.37	760	-1.01	4A	AAS
COMLAB	690	1.63	1730	-1.51	16200	2.74	13550	2.66	400	1.37	620	1.60	490	0.87	150	-0.85	40	-1.52	1000	2.00	1A,AR	AAS
COMLAB	641	0.32	1956	0.23	14443	0.22	12124	-0.14	375	0.34	566	-0.04	451	-0.04	327	0.93	110	1.87	820	-0.26	AR	AAS
COMLAB	658	0.77	1710	-1.67	13900	-0.56	11900	-0.58	348	-0.76	570	0.08	489	0.85	119	-1.16	52	-0.94	1050	2.63	AR	OES
COMLAB	597	-0.86	1760	-1.28	14600	-0.44	12000	-0.38	353	-0.56	532	-1.08	444	-0.21	129	-1.06	50	-1.03	833	-0.10	AR	OES
COMLAB	574	-1.48	1940	0.11	12581	-2.45	10859	-2.62	351	-0.64	571	0.11	341	-2.63	182	-0.53	77	0.28	844	-0.04	4A	OES
COMLAB	557	-1.93	1597	-2.54	14180	-0.16	11503	-1.36	350	-0.68	511	-1.71	410	-1.01	138	-0.97	64	-0.36	691	-1.88	4A	MS
COMLAB	638	0.24	2010	0.65	14150	0.20	12000	-0.38	365	-0.07	590	0.68	481	0.66	363	1.30	92	1.00	770	-0.89	4A	OES
COMLAB	660	0.83	2030	0.81	14500	0.30	12500	0.60	388	0.87	616	1.47	469	0.38	375	1.42	92	1.00	728	-1.42	4A	ES
COMLAB	629	0.00	1940	0.11	>10000	aid	>10000	aid	357	-0.40	555	-0.38	449	-0.09	374	1.41	90	0.90	790	-0.64	AR	ES
COMLAB	630	0.02	1910	-0.12	14300	0.01	12150	-0.09	346	-0.85	550	-0.53	507	1.27	363	1.30	91	0.95	773	-0.85	4A	OES
COMLAB	648	0.50	2080	1.19	14250	-0.06	12550	0.70	398	1.28	598	0.93	504	1.20	403	1.70	103	1.53	855	0.18	4A	OES
COMLAB	633	0.10	1980	0.42	14500	0.30	12400	0.40	386	0.79	595	0.84	469	0.38	368	1.35	92	1.00	813	-0.35	4A	MS,OES
COMLAB	629	0.00	1960	0.26	14400	0.16	12150	-0.09	360	-0.27	579	0.35	506	1.25	363	1.30	90	0.90	777	-0.80	4A	OES
COMLAB	635	0.16	1970	0.34	14600	0.44	12450	0.50	381	0.59	584	0.50	475	0.52	147	-0.88	50	-1.03	866	0.32	AR	AAS
COMLAB	629	0.00	1950	0.19	14400	0.16	12200	0.01	352	-0.60	575	0.23	450	-0.07	148	-0.87	50	-1.03	832	-0.11	AR	OES
COMLAB	623	-0.17	2020	0.73	14300	0.01	12400	0.40	326	-1.67	585	0.53	452	-0.02	142	-0.93	51	-0.99	790	-0.64	AR	OES
COMLAB	600	-0.78	1754	-1.33	13400	-1.28	12000	-0.38	358	-0.35	530	-1.14	414	-0.91	116	-1.19	64	-0.36	758	-1.04	3A	OES
COMLAB	566	-1.69	1713	-1.65	15182	1.28	12575	0.75	322	-1.83	505	-1.90	407	-1.08	127	-1.08	57	-0.70	740	-1.27	4A	ES
COMLAB	478	-3.00	1434	3.00	9873	-3.00	8853	-3.00	270	-3.00	495	-2.20	353	-2.36	132	-1.03	43	-1.38	845	-2.46	AR	AAS
COMLAB	670	1.09	2100	1.35	15050	1.09	12910	1.41	400	1.37	610	1.29	490	0.87	160	-0.75	50	-1.03	920	1.00	1A	AAS
COMLAB	600	-0.78	2000	0.57	14800	0.73	12400	0.40	350	-0.68	550	-0.53	445	-0.19	375	1.42	85	0.66	nr	nr	4A	MS
COMLAB	635	0.16	1905	-0.16	14686	0.57	12331	0.27	365	-0.07	535	-0.98	450	-0.07	215	-0.19	44	-1.32	850	0.12	FUS	OES
COMLAB	638	0.24	1980	0.50	14100	-0.27	11900	-0.58	368	0.06	568	0.02	456	0.07	354	1.21	88	0.80	822	-0.24	4A	OES
COMLAB	706	2.06	2150	1.73	14400	0.16	12400	0.40	406	1.61	634	2.02	518	1.53	414	1.81	118	2.25	978	1.73	4A	OES
COMLAB	642	0.34	1854	-0.56	14500	0.30	12100	-0.18	365	-0.07	572	0.14	448	-0.12	208	-0.26	84	0.61	861	0.25	3A,4A	AAS
COMLAB	704	2.01	2170	1.89	13536	-1.08	11720	-0.93	397	1.25	612	1.34	517	1.51	257	0.23	76	0.23	885	0.56	4A	OES
COMLAB	660	0.83	2093	1.29	15504	1.74	12992	1.57	589	3.00	601	1.02	522	1.62	173	-0.62	84	0.61	957	1.46	3A	MS
COMLAB	624	-0.14	1955	0.23	14137	-0.22	12072	-0.24	383	0.67	582	0.42	466	0.31	195	-0.40	89	0.85	nr	nr	4A	AAS
COMLAB	780	3.00	1980	0.42	12000	-3.00	10100	-3.00	460	3.00	625	1.75	550	2.28	240	0.06	120	2.35	1130	3.00	AR	OES
COMLAB	19280	3.00	2024	0.76	14120	-0.25	12000	-0.38	376	0.38	553	-0.44	431	-0.51	161	-0.74	88	0.80	868	0.34	4A	AAS
COMLAB	633	0.10	1920	-0.05	13895	-0.57	11809	-0.76	365	-0.07	575	0.23	460	0.17	357	1.24	80	0.42	909	0.86	4A	OES
COMLAB	657	0.74	1891	-0.27	13837	-0.65	11481	-1.40	442	3.00	567	-0.01	436	-0.40	301	0.67	91	0.95	851	0.13	4A	OES
COMLAB	618	-0.30	1906	-0.15	15730	2.06	13130	1.84	370	0.14	560	-0.23	437	-0.37	227	-0.07	88	0.80	895	0.68	4A	OES
COMLAB	625	-0.11	1970	0.34	14300	0.01	12600	0.80	370	0.14	575	0.23	470	0.40	265	0.31	62	-0.45	868	0.34	2A	OES
COMLAB	634	0.13	1941	0.12	14069	-0.32	12154	-0.08	383	0.67	592	0.75	474	0.50	384	1.51	86	0.71	942	1.27	4A	OES
COMLAB	626	-0.09	1953	0.21	13830	-0.66	11640	-1.09	367	0.01	569	0.05	452	-0.02	138	-0.97	46	-1.23	766	-0.94	AR	OES
COMLAB	582	-1.26	1840	-0.66	12823	-2.11	11023	-2.30	355	-0.48	545	-0.68	437	-0.37	201	-0.34	83	0.56	777	-0.80	3A	MS,OES
COMLAB	643	0.37	1961	0.27	13866	-0.61	11814	-0.75	382	0.63	579	0.35	466	0.31	337	1.04	90	0.90	843	0.03	4A	AAS
COMLAB	640	0.29	1919	-0.05	12100	-3.00	10100	-3.00	377	0.42	573	0.17	460	0.17	342	1.09	76	0.22	907	0.83	AR	ICP
COMLAB	623	-0.17	1918	-0.06	15290	1.43	12027	-0.33	348	-0.76	559	-0.26	405	-1.13	96	-1.39	8	-3.00	848	0.09	FUS	ICP
COMLAB	725	2.57	2074	1.15	13740	-0.79	11936	3.00	429	2.55	630	1.90	525	1.69	323	0.89	84	0.61	979	1.74		

Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	214	394	642	234	300	338	128	2505	309	31
STDEV (ppm)	13	18	29	15	15	19	13	127	19	7
95% CI (ppm)	3	4	7	4	4	5	3	30	5	2
95% CI (%)	1.46%	1.13%	1.07%	1.52%	1.26%	1.35%	2.42%	1.19%	1.50%	5.11%
MIN (ppm)	185	359	575	196	259	289	92	2160	257	20
MEDIAN (ppm)	215	392	643	234	300	336	128	2503	309	32
MAX (ppm)	242	428	712	274	337	384	163	2800	349	45
IQR (ppm)	18	29	32	12	17	22	12	167	23	12
COUNT	69	65	68	69	65	67	71	70	68	73

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	204	-0.75	385	-0.50	655	0.45	240	0.38	302	0.15	349	0.60	126	-0.13	2520	0.12	328	0.97	28	-0.44	NAA	
ZARAZMA	227	1.00	412	0.99	669	0.94	247	0.85	308	0.54	335	-0.14	138	0.74	2448	-0.45	322	0.63	39	1.17	AR	ES
COMLAB	192	-1.66	373	-1.16	575	-2.33	205	-1.96	277	-1.47	395	3.00	120	-0.59	2432	-0.57	283	-1.35	33	0.29	4A	OES
COMLAB	230	1.23	370	-1.33	690	1.67	263	1.91	313	0.87	367	1.55	127	-0.06	2608	0.82	326	0.86	44	1.90	AR,4A	ES
COMLAB	204	-0.73	393	-0.07	692	1.74	233	-0.09	269	-1.98	312	-1.37	136	0.59	2600	0.75	257	-2.71	41	1.41	4A	MS,OES
COMLAB	215	0.09	367	-1.49	599	-1.49	228	-0.42	293	-0.43	339	0.07	130	0.17	2370	-1.06	309	-0.01	39	1.17	4A	MS,OES
COMLAB	203	-0.82	363	-1.72	653	0.38	220	-0.95	274	-1.67	313	-1.30	120	-0.59	2513	0.07	292	-0.89	32	0.14	4A	AAS
COMLAB	222	0.62	425	1.71	635	-0.24	234	-0.02	334	2.23	333	-0.24	132	0.32	2427	-0.61	340	1.59	25	-0.88	AR	AAS
COMLAB	231	1.31	377	-0.94	609	-1.14	235	0.05	311	0.74	358	1.08	139	0.85	2430	-0.59	317	0.40	26	-0.73	AR	OES
COMLAB	213	-0.06	389	-0.28	655	0.45	252	1.18	313	0.87	346	0.44	131	0.24	2560	0.44	325	0.81	22	-1.31	AR	OES
COMLAB	193	-1.58	399	0.27	614	-0.97	221	-0.89	285	-0.95	335	-0.14	95	-2.48	2290	-1.69	301	-0.43	25	-0.82	4A	OES
COMLAB	159	-3.00	277	-3.00	650	0.28	175	-3.00	220	-3.00	239	-3.00	92	-2.71	2512	0.06	218	-3.00	21	-1.46	4A	MS
COMLAB	210	-0.29	404	0.55	618	-0.83	228	-0.42	289	-0.69	332	-0.30	127	-0.06	2420	-0.67	313	0.19	35	0.58	4A	OES
COMLAB	211	-0.21	394	0.00	650	0.28	235	0.05	293	-0.43	344	0.34	137	0.70	2500	-0.04	299	-0.53	30	-0.15	4A	ES
COMLAB	211	-0.21	392	-0.12	631	-0.38	230	-0.29	301	0.09	334	-0.19	130	0.17	2540	0.28	319	0.50	37	0.87	AR	ES
COMLAB	222	0.62	396	0.11	625	-0.59	228	-0.42	294	-0.37	347	0.50	142	1.08	2540	0.28	308	-0.06	35	0.58	4A	OES
COMLAB	219	0.39	413	1.04	654	0.42	234	-0.02	290	-0.63	349	0.60	129	0.09	2580	0.60	321	0.61	39	1.17	4A	OES
COMLAB	202	-0.90	380	-0.78	646	0.14	222	-0.82	293	-0.43	332	-0.30	125	0.21	2510	0.04	307	-0.12	34	0.44	4A	MS,OES
COMLAB	201	-0.97	390	-0.23	639	-0.10	224	-0.69	285	-0.95	320	-0.93	135	0.55	2440	-0.51	319	0.50	36	0.73	4A	OES
COMLAB	207	-0.52	376	-1.00	587	-1.91	224	-0.69	303	0.22	311	-1.41	123	-0.36	2400	-0.82	293	-0.84	20	-1.61	AR	AAS
COMLAB	202	-0.90	372	-1.22	613	-1.01	225	-0.62	290	-0.63	320	-0.93	123	-0.36	2300	-1.61	279	-1.56	21	-1.46	AR	OES
COMLAB	203	-0.82	404	0.55	644	0.07	230	-0.29	288	-0.76	328	-0.51	122	-0.44	2160	-2.72	299	-0.53	35	0.58	4A	OES
COMLAB	215	0.09	400	0.33	640	-0.07	240	0.38	295	-0.30	320	-0.93	125	-0.21	2400	-0.82	305	-0.22	25	-0.88	3A	OES
COMLAB	229	1.15	412	0.99	648	0.21	244	0.65	303	0.22	352	0.76	137	0.70	2598	0.74	333	1.23	37	0.87	4A	ES
COMLAB	216	0.20	309	-3.00	555	-3.00	217	-1.16	216	-3.00	310	-1.44	118	-0.78	2699	1.53	283	-1.35	34	0.38	AR	AAS
COMLAB	220	0.47	390	-0.23	610	-1.11	240	0.38	310	0.67	340	0.13	130	0.17	2500	-0.04	310	0.04	20	-1.61	1A	AAS
COMLAB	220	0.47	390	-0.23	650	0.28	240	0.38	305	0.35	345	0.39	130	0.17	2500	-0.04	315	0.30	nr	nr	4A	MS
COMLAB	210	-0.29	385	-0.50	645	0.11	235	0.05	310	0.67	320	-0.93	127	-0.06	2395	-0.86	275	-1.77	27	-0.58	FUS	OES
COMLAB	230	1.23	420	1.43	656	0.49	250	1.05	314	0.93	342	0.23	140	0.93	2610	0.83	326	0.86	38	1.02	4A	OES
COMLAB	231	1.31	425	1.71	707	2.26	252	1.18	316	1.06	366	1.50	123	-0.36	2708	1.60	349	2.05	42	1.60	4A	OES
COMLAB	233	1.46	401	0.38	632	-0.34	249	0.98	313	0.87	349	0.60	128	0.02	2565	0.48	329	1.02	27	-0.58	3A,4A	AAS
COMLAB	208	-0.43	422	1.52	662	0.68	247	0.87	361	3.00	349	0.59	155	2.03	2656	1.19	324	0.78	33	0.22	4A	OES
COMLAB	221	0.55	416	1.21	653	0.38	240	0.38	303	0.22	345	0.39	129	0.09	2665	1.27	302	-0.37	25	-0.88	3A	MS
COMLAB	208	-0.44	381	-0.72	642	0.00	223	-0.75	294	-0.37	332	-0.30	125	-0.21	2589	0.67	309	-0.01	33	0.29	4A	AAS
COMLAB	242	2.14	419	1.37	680	1.32	255	1.38	330	1.97	360	1.18	158	2.29	2800	2.33	342	1.69	35	0.58	AR	OES
COMLAB	210	-0.29	392	-0.12	641	-0.03	236	0.11	301	0.09	343	0.28	126	-0.13	2602	0.77	314	0.25	32	0.14	4A	OES
COMLAB	218	0.32	411	0.93	675	1.15	237	0.18	296	-0.24	340	0.13	127	-0.06	2575	0.56	307	-0.12	26	-0.73	4A	OES
COMLAB	213	-0.06	393	-0.06	646	0.14	233	-0.09	295	-0.30	335	-0.14	125	-0.21	2433	-0.56	307	-0.12	38	1.02	4A	OES
COMLAB	212	-0.14	371	-1.27	610	-1.11	233	-0.09	293	-0.43	332	-0.30	128	0.02	2300	-1.61	317	0.40	23	-1.17	2A	OES
COMLAB	217	0.24	382	-0.67	636	-0.21	241	0.45	299	-0.04	343	0.28	131	0.24	2595	0.71	303	-0.32	39	1.17	4A	OES
COMLAB	224	0.77	392	-0.12	673	1.08	241	0.45	305	0.35	344	-0.19	127	-0.06	2424	-0.64	298	-0.58	23	-1.14	AR	OES
COMLAB	214	0.01	386	-0.45	622	-0.69	230	-0.29	296	-0.24	331	-0.35	129	0.09	2404	-0.79	314	0.25	39	1.17	3A	MS,OES
COMLAB	215	0.09	387	-0.39	608	-1.18	231	-0.22	298	-1.11	336	-0.09	130	0.17	2429	-0.60	299	-0.53	41	1.46	4A	AAS
COMLAB	239	1.91	427	1.82	696	1.88	256	1.45	337	2.43	373	1.87	146	1.38	2745	1.90	336	1.38	45	2.04	AR	ES
COMLAB	186	-2.11	304	-3.00	472	-3.00	201	-2.22	3210	3.00	257	-3.00	48	-3.00	2492	-1.10	237	-3.00	23	-1.17	FUS	ICP
COMLAB	238	1.84	417	1.26	629	-0.45	267	2.18	349	3.00	384	2.45	201	3.00	2694	1.49	321	0.61	39	1.17	3A	OES
COMLAB	201	-0.97	359	-1.94	602	-1.39	220	-0.95	274	-1.67	301	-1.94	113	-1.12	2363	-1.12	286	-1.20	30	-0.15	3A	OES
COMLAB	217	0.24	386	-0.45	670	0.98	282	3.00	314	0.93	335	-0.14	154	1.99	2671	1.31	330	1.07	41	1.40	4A	OES
COMLAB	204	-0.75	391	-0.17	633	-0.31	220	-0.95	301	0.09	323	-0.77	133	0.40	2730	1.78	297	-0.63	38	1.02	3A	AAS

Arsenic Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	395	744	359	241	1153	1541	840	57	4	40
STDEV (ppm)	29	50	27	13	65	80	52	6	1	4
95% CI (ppm)	7	12	6	3	15	19	12	2	0	1
95% CI (%)	1.74%	1.59%	1.78%	1.34%	1.33%	1.23%	1.47%	2.77%	11.37%	2.60%
MIN (ppm)	324	627	308	207	992	1351	722	41	2	30
MEDIAN (ppm)	391	747	360	240	1156	1535	834	58	4	40
MAX (ppm)	467	867	428	270	1319	1710	976	71	6	47
IQR (ppm)	24	54	35	16	68	103	55	9	2	5
COUNT	71	70	69	66	70	70	70	59	33	57

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading	
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score			
Lab Reference																							
BECQUEREL-NAA	390	-0.16	750	0.11	380	0.77	260	1.41	1150	-0.05	1520	-0.27	830	-0.20	57	0.03	3	-0.85	41	0.38		NAA	
ZARAZMA	401	0.22	765	0.41	385	0.95	254	0.96	1161	0.12	1568	0.33	858	0.34	60	0.53	2	-1.42	41	0.38		AR	ES
COMLAB	324	-2.42	654	-1.80	308	-1.90	207	-2.57	992	-2.48	1280	-3.00	722	-2.27	59	0.35	12	-3.00	45	1.40		4A	OES
COMLAB	404	0.32	819	1.49	364	0.18	238	-0.24	1173	0.31	1613	0.89	862	0.41	54	-0.46	<5	blid	25	-3.00		AR,4A	ES
COMLAB	398	0.10	776	0.64	351	-0.30	242	0.06	1208	0.85	1609	0.84	813	-0.53	56	-0.07	2	-1.18	37	-0.74		AR	MS,OES
COMLAB	365	-1.01	695	-0.98	341	-0.68	233	-0.62	1070	-1.28	1410	-1.63	753	-1.67	58	0.16	4	-0.20	38	-0.43		4A,NAA	MS,INAA
COMLAB	390	-0.16	743	-0.03	349	-0.38	235	-0.47	1162	0.14	1459	-1.02	826	-0.27	50	-1.12	<20	blid	22	-3.00		4A	AAS
COMLAB	467	2.47	925	3.00	409	1.85	164	-3.00	1280	1.96	1692	1.87	906	1.26	87	3.00	27	3.00	77	3.00		AR	AAS
COMLAB	391	-0.13	654	-1.80	309	-1.86	234	-0.54	1110	-0.67	1370	-2.13	764	-1.46	54	-0.46	3	-0.61	44	1.15		AR	OES
COMLAB	456	2.10	821	1.53	426	2.48	299	3.00	1370	3.00	1710	2.09	1030	3.00	64	1.17	4	0.20	43	0.89		AR	OES
COMLAB	112	-3.00	280	-3.00	76	-3.00	64	-3.00	343	-3.00	581	-3.00	287	-3.00	22	-3.00	10	3.00	22	-3.00		4A	OES
COMLAB	406	0.39	731	-0.27	360	0.03	242	0.06	1142	-0.17	1480	-0.76	816	-0.47	59	0.35	4	0.20	39	-0.13		4A	MS
COMLAB	402	0.25	790	0.91	368	0.33	254	0.96	1175	0.34	1580	0.48	874	0.64	58	0.19	5	1.02	40	0.13		4A	OES
COMLAB	408	0.46	788	0.87	383	0.88	255	1.04	1220	1.03	1640	1.22	869	0.55	65	1.33	<5	blid	42	0.64		4A	ES
COMLAB	398	0.11	768	0.47	381	0.81	251	0.74	1160	0.11	1520	-0.27	860	0.38	62	0.84	6	1.83	39	-0.13		AR	ES
COMLAB	404	0.32	753	0.17	369	0.36	231	-0.77	1185	0.49	1495	-0.58	941	1.93	66	1.50	<5	blid	42	0.64		4A	OES
COMLAB	390	-0.16	720	-0.49	396	1.36	247	0.44	1130	-0.36	1650	1.35	938	1.87	50	-1.12	<5	blid	30	-2.43		4A	OES
COMLAB	396	0.05	741	-0.07	371	0.44	256	1.11	1170	0.42	1630	1.10	845	0.09	52	-0.79	<5	blid	34	-1.41		4A	MS,OES
COMLAB	393	-0.06	754	0.19	377	0.66	240	-0.09	1160	0.11	1550	0.11	906	1.26	65	1.33	5	1.02	37	-0.64		4A	OES
COMLAB	393	-0.06	754	0.19	361	0.07	254	0.96	1190	0.57	1580	0.48	858	0.34	61	0.68	5	1.02	39	-0.13		AR	OES
COMLAB	387	-0.26	761	0.33	353	-0.23	239	-0.17	1165	0.18	1600	0.73	841	0.01	58	0.19	2	-1.42	38	-0.38		AR	OES
COMLAB	380	-0.50	720	-0.49	350	-0.34	240	-0.09	1070	-1.28	1510	-0.39	770	-1.35	50	-1.12	<10	blid	40	0.13		3A	OES
COMLAB	391	-0.13	721	-0.47	336	-0.86	240	-0.09	1105	-0.74	1515	-0.33	863	0.43	52	-0.79	3	-0.61	39	-0.13		AR	ES
COMLAB	350	-1.53	820	1.51	320	-1.45	270	2.16	1200	0.72	1520	-0.27	830	-0.20	80	-3.00	70	3.00	<50	blid		1A	AAS
COMLAB	385	-0.33	700	-0.88	355	-0.16	240	-0.09	1100	-0.82	1700	1.97	900	1.14	60	0.52	10	3.00	nr	nr		4A	MS
COMLAB	400	0.18	745	0.01	370	0.40	250	0.66	1165	0.18	1455	-1.07	845	0.09	60	0.52	<2	blid	46	1.66		FUS	OES
COMLAB	380	-0.50	760	0.31	350	-0.34	234	-0.54	1140	-0.20	1460	-1.01	840	-0.01	57	0.03	5	1.02	38	-0.38		4A	OES
COMLAB	250	-3.00	450	-3.00	200	-3.00	120	-3.00	860	-3.00	995	-3.00	440	-3.00	70	2.15	10	3.00	35	-1.15		4A	OES
COMLAB	391	-0.13	779	0.69	361	0.07	244	0.21	1172	0.29	1565	0.29	847	0.13	53	-0.63	<5	blid	41	0.38		3A,4A	AAS
COMLAB	403	0.27	777	0.65	361	0.06	244	0.18	1198	0.69	1578	0.45	869	0.55	32	-3.00	<2.4	blid	34	-1.43		4A	OES
COMLAB	378	-0.57	736	-0.17	341	-0.68	238	-0.24	1108	-0.70	1501	-0.50	824	-0.31	60	0.52	<10	blid	34	-1.41		3A	MS
COMLAB	391	-0.13	748	0.07	365	0.21	232	-0.69	1186	0.51	1572	0.38	828	-0.24	55	-0.30	<25	blid	36	-0.89		4A	AAS
COMLAB	390	-0.16	780	0.71	350	-0.34	240	-0.09	1245	1.42	1560	0.23	910	1.33	41	-2.59	<5	blid	40	0.13		AR	OES
COMLAB	408	0.46	783	0.77	366	0.25	245	0.28	1221	1.05	1582	0.50	864	0.45	49	-1.28	<2	blid	42	0.64		AR	OES
COMLAB	377	-0.60	718	-0.53	349	-0.38	234	-0.54	1114	-0.60	1473	-0.85	806	-0.66	58	0.19	<10	blid	37	-0.64		4A	OES
COMLAB	379	-0.54	734	-0.21	358	-0.06	237	-0.31	1128	-0.38	1508	-0.42	801	-0.76	58	0.17	4	-0.20	44	1.15		4A	MS
COMLAB	388	-0.23	733	-0.23	369	0.36	249	0.59	1130	-0.36	1486	-0.69	809	-0.60	61	0.68	17	3.00	52	3.00		4A	OES
COMLAB	353	-1.42	657	-1.74	314	-1.68	217	-1.82	1120	-0.51	1550	0.11	747	-1.79	52	-0.79	3	-0.61	40	0.13		AR	OES
COMLAB	380	-0.50	712	-0.64	353	-0.23	250	0.66	1138	-0.23	1477	-0.80	833	-0.14	59	0.35	<10	blid	39	-0.13		4A	OES
COMLAB	376	-0.64	727	-0.35	341	-0.68	237	-0.32	1140	-0.20	1502	-0.49	829	-0.22	48	-1.48	<10	blid	30	-2.43		AR	OES
COMLAB	418	0.80	768	0.47	399	1.48	261	1.49	1172	0.29	1564	0.28	854	0.26	63	1.06	2	-1.42	43	0.79		3A	MS
COMLAB	388	-0.23	719	-0.51	352	-0.27	266	1.86	1136	-0.26	1492	-0.61	834	-0.12	54	-0.46	4	0.20	40	0.13		4A	AAS
COMLAB	448	1.82	826	1.63	401	1.55	243	0.13	1251	1.51	1839	-0.03	941	1.93	137	3.00	<10	blid	19	-3.00		AR	ICP
COMLAB	403	0.28	765	0.41	374	0.55	259	1.34	1206	0.81	1565	0.29	905	1.24	65	1.25	3	-1.01	41	0.38		3A	OES
COMLAB	423	0.97	796	1.03	428	2.55	269	2.09	1290	2.11	1620	0.98	898	1.10	52	-0.79	4	0.20	18	-3.00		3A	AAS
COMLAB	436	1.41	726	-0.37	384	0.92	240	-0.09	1152	-0.02	1617	0.94	820	-0.39	54	-0.46	3	-0.61	31	-2.17		4A	AAS
COMLAB	394	-0.02	740	-0.09	360	0.03	241	-0.02	1139	-0.22	1525	-0.20	828	-0.24	77	-3.00	<15	blid	56	3.00		4A	AAS
COMLAB	410	0.52	716	-0.56	340	-0.71	233	-0.62	1248	1.46	1633	1.14	855	0.28	50	-1.12	2	-1.42	41	0.38		4A	MS
COMLAB	397	0.08	749	0.09	362	0.10	231	-0.77	1123	-0.46	1454	-1.09	812	-0.54	50	-1.12	5	1.02	36	-0.89		4A	OES
COMLAB	391	-0.13	748	0.07	376	0.62	252	0.81	1143	-0.16	1524	-0.22	830	-0.20	54	-0.61	3	-0.61	35	-1.28		FUS	AAS,OES
COMLAB	400	0.18	727	-0.35	361	0.07	246	0.36	1160	0.11	1530	-0.14											

Cobalt Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

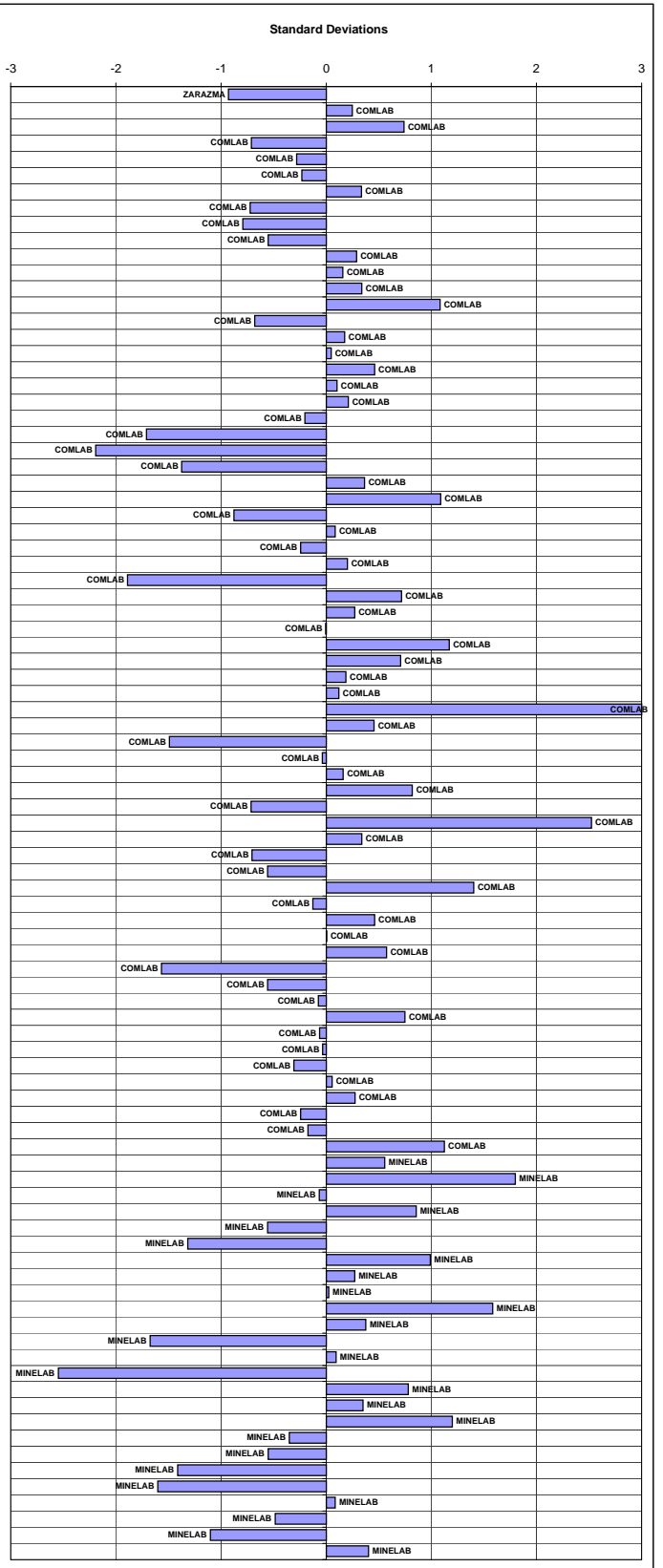
Standard Reference	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10
MEAN (ppm)	34	58	122	88	36	41	28	141	34	65
STDEV (ppm)	2	5	8	6	3	2	2	23	6	8
95% CI (ppm)	1	1	2	2	1	1	1	5	1	2
95% CI (%)	1.76%	2.11%	1.62%	1.73%	1.75%	1.41%	2.08%	3.88%	4.33%	2.84%
MIN (ppm)	28	46	103	72	30	36	22	90	21	48
MEDIAN (ppm)	34	58	121	87	36	40	28	137	36	64
MAX (ppm)	40	72	142	103	43	46	34	190	50	85
IQR (ppm)	3	6	10	8	3	3	2	37	9	9
COUNT	64	69	67	69	65	62	65	70	70	69

Standard Reference	GBM311-1		GBM311-2		GBM311-3		GBM311-4		GBM311-5		GBM311-6		GBM311-7		GBM311-8		GBM311-9		GBM311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	38	1.77	66	1.55	133	1.37	95	1.14	39	1.17	41	0.19	33	2.08	190	2.08	44	1.51	74	1.22	NAA	
ZARAZMA	34	-0.02	61	0.61	108	-1.68	78	-1.46	37	0.40	41	0.19	29	0.48	128	-0.58	36	0.25	60	-0.60	AR	ES
COMLAB	34	0.10	62	0.77	121	-0.09	85	-0.43	38	0.78	38	-1.13	29	0.40	127	-0.62	39	0.72	75	1.35	4A	OES
COMLAB	32	-0.73	52	-1.17	109	-1.56	82	-0.90	36	0.01	40	-0.25	27	-0.44	170	1.22	35	0.09	61	-0.46	AR,4A	ES
COMLAB	36	0.94	62	0.69	142	2.50	98	1.55	37	0.47	44	1.59	31	1.24	182	1.76	38	0.61	79	1.81	4A	MS,OES
COMLAB	34	0.10	59	0.19	118	-0.46	87	-0.12	36	0.01	42	0.62	28	-0.02	176	1.48	39	0.72	65	0.06	4A,NAA	ICP,INAA
COMLAB	35	0.52	57	-0.20	117	-0.58	86	-0.27	36	0.01	41	0.19	30	0.82	124	-0.75	37	0.41	64	-0.07	4A	AAS
COMLAB	35	0.52	55	-0.59	115	-0.82	86	-0.27	36	0.01	42	0.62	27	-0.44	165	1.01	28	-1.02	65	0.06	AR	AAS
COMLAB	35	0.52	70	2.32	113	-1.07	100	1.92	40	1.56	42	0.62	30	0.82	170	1.22	32	-0.38	75	1.35	AR	OES
COMLAB	36	0.94	54	-0.78	128	0.76	96	1.30	42	2.34	42	0.62	29	0.40	127	-0.62	31	-0.54	62	-0.33	AR	OES
COMLAB	24	-3.00	47	-2.18	90	-3.00	79	-1.34	27	-3.00	33	-3.00	22	-2.54	123	-0.79	36	0.26	48	-2.12	4A	OES
COMLAB	35	0.52	57	-0.20	120	-0.21	84	-0.59	36	0.01	39	-0.89	26	-0.86	129	-0.54	25	-1.49	60	-0.59	4A	MS
COMLAB	34	0.10	58	-0.01	119	-0.34	85	-0.43	35	-0.38	41	0.19	27	-0.44	162	0.88	39	0.72	63	-0.20	4A	OES
COMLAB	33	-0.31	56	-0.39	121	-0.09	90	0.35	35	-0.38	41	0.19	28	-0.02	148	0.28	36	0.25	62	-0.33	4A	ES
COMLAB	32	-0.73	52	-1.17	113	-1.07	81	-1.06	31	-1.94	37	-1.57	26	-0.86	102	-1.70	33	-0.23	62	-0.33	AR	ES
COMLAB	33	-0.31	56	-0.39	118	-0.46	84	-0.59	35	-0.38	39	-0.69	30	0.82	155	0.58	37	0.41	69	0.58	4A	OES
COMLAB	33	-0.31	59	0.19	121	-0.09	88	0.04	33	-1.16	43	1.06	27	-0.44	158	0.71	39	0.72	69	0.58	4A	OES
COMLAB	32	-0.73	55	-0.59	122	0.03	86	-0.27	33	-1.16	39	-0.69	29	0.40	151	0.41	35	0.09	65	0.06	4A	MS,OES
COMLAB	32	-0.73	56	-0.39	120	-0.21	82	-0.90	33	-1.16	38	-1.13	29	0.40	150	0.37	39	0.72	63	-0.20	4A	OES
COMLAB	30	-1.56	52	-1.17	111	-1.31	80	-1.21	33	-1.16	36	-2.00	24	-1.70	115	-1.14	24	-1.65	53	-1.50	AR	OES
COMLAB	31	-1.14	58	-0.01	119	-0.34	84	-0.59	34	-0.77	39	-0.69	26	-0.86	nr	nr	37	0.41	62	-0.33	4A	OES
COMLAB	30	-1.56	55	-0.59	125	0.40	85	-0.43	35	-0.38	40	-0.25	25	-1.28	120	-0.92	30	-0.70	60	-0.59	3A	OES
COMLAB	43	-3.00	65	1.35	133	1.37	98	1.61	40	1.56	48	-3.00	37	-3.00	130	-0.49	48	2.15	85	2.65	4A	ES
COMLAB	41	-3.00	53	-1.05	103	-2.26	79	-1.35	35	-0.42	50	-3.00	31	1.07	108	-1.45	28	-1.10	53	-1.51	AR	AAS
COMLAB	40	2.60	80	-3.00	150	-3.00	110	-3.00	50	-3.00	60	-3.00	40	-3.00	160	0.79	30	-0.70	70	0.71	1A	AAS
COMLAB	36	0.94	65	1.35	125	0.40	90	0.35	38	0.78	43	1.06	30	0.82	170	1.22	41	1.04	nr	nr	4A	MS
COMLAB	37	1.35	64	1.16	137	1.86	97	1.45	41	1.95	42	0.62	29	0.40	124	-0.75	29	-0.86	64	-0.07	FUS	OES
COMLAB	34	0.10	62	0.77	128	0.76	90	0.35	36	0.01	38	-1.13	30	0.82	170	1.22	38	0.56	68	0.45	4A	OES
COMLAB	32	-0.73	57	-0.20	110	-1.43	65	-3.00	34	-0.77	40	-0.25	19	-3.00	151	0.41	37	0.41	65	0.06	4A	OES
COMLAB	33	-0.31	62	0.77	128	0.76	95	1.14	34	-0.77	39	-0.69	25	-1.28	144	0.11	26	-1.33	65	0.06	3A,4A	AAS
COMLAB	44	-3.00	72	2.67	141	2.34	103	2.38	47	-3.00	49	-3.00	39	-3.00	153	0.49	50	2.48	84	2.51	4A	OES
COMLAB	34	0.10	61	0.58	126	0.52	86	-0.27	37	0.40	42	0.62	27	-0.44	131	-0.45	26	-1.33	57	-0.98	3A	MS
COMLAB	35	0.52	58	-0.01	124	0.27	90	0.35	37	0.40	42	0.62	29	0.40	130	-0.49	37	0.41	66	0.19	4A	AAS
COMLAB	32	-0.73	55	-0.59	116	-0.70	85	-0.43	33	-1.16	38	-1.13	27	-0.44	112	-1.27	31	-0.54	69	0.58	AR	OES
COMLAB	35	0.52	58	-0.01	126	0.52	91	0.51	37	0.40	44	1.50	30	0.82	172	1.31	40	0.88	73	1.09	4A	OES
COMLAB	36	1.02	63	0.94	131	1.12	92	0.62	39	1.17	44	1.37	29	0.57	178	1.55	40	0.90	73	1.07	4A	MS
COMLAB	35	0.52	57	-0.20	119	-0.34	87	-0.12	36	0.01	40	-0.25	30	0.82	124	-0.75	42	1.20	70	0.71	4A	OES
COMLAB	33	-0.31	57	-0.20	116	-0.70	84	-0.59	38	0.78	42	0.62	28	-0.02	138	-0.15	29	-0.86	54	-1.37	AR	OES
COMLAB	34	0.10	57	-0.20	128	0.76	95	1.14	36	0.01	41	0.19	28	-0.02	176	1.48	38	0.56	74	1.22	4A	OES
COMLAB	32	-0.73	54	-0.76	119	-0.34	86	-0.29	34	-0.69	38	-1.08	26	-0.90	115	-1.14	25	-1.49	54	-1.39	AR	OES
COMLAB	33	-0.52	57	-0.14	114	-0.95	83	-0.76	36	-0.11	40	-0.30	28	-0.15	125	-0.71	37	0.41	64	-0.05	3A	MS,OES
COMLAB	33	-0.31	56	-0.39	111	-1.31	85	-0.43	34	-0.77	38	-1.13	27	-0.44	150	0.37	37	0.41	63	-0.20	4A	AAS
COMLAB	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	<10	blnd	<10	-3.00	AR	ES
COMLAB	10	-3.00	39	-3.00	110	-1.43	74	-2.15	21	-3.00	24	-3.00	8	-3.00	122	-0.84	9	-3.00	34	-3.00	FUS	ICP
COMLAB	34	0.10	57	-0.30	119	-0.34	88	0.04	36	0.01	40	-0.25	29	0.19	144	0.11	35	0.01	63	-0.20	3A	OES
COMLAB	32	-0.73	55	-0.59	119	-0.34	86	-0.27	34	-0.77	38	-1.13	26	-0.86	117	-1.05	31	-0.54	57	-0.98	3A	OES
COMLAB	38	1.73	65	1.27	134	1.49	99	1.80	40	1.48	46	2.25	32	1.83	185	1.87	43	1.42	74	1.16	4A	OES
COMLAB	31	-1.14	58	-0.01	127	0.64	89	0.20	35	-0.38	42	0.62	29	0.40	126	-0.67	39	0.72	66	0.19	3A	AAS
COMLAB	35	0.52	59	0.19	120	-0.21	89	0.20	39	1.17	42	0.62	29	0.40	166	1.05	42	1.20	69	0.58	4A	AAS
COMLAB	34	0.10	54	-0.78	113	-1.07	80	-1.21	34	-0.77	39	-0.69	28	-0.02	116	-1.09	37	0.41	64	-0.07	4A	AAS
COMLAB	39	2.19	64	1.16	128	0.76	93	0.82	43	2.73	46	2.38	31	1.24	165	1.01	44	1.51	78	1.74	4A	AAS

Ore Grade Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (ppm)	14565	10188	2344	17501	237501	13140
STDEV (ppm)	508	325	147	667	8218	449
95% CI (ppm)	109	70	62	142	1790	99
95% CI (%)	0.75%	0.68%	2.62%	0.81%	0.75%	0.75%
MIN (ppm)	13300	9400	2037	15620	215000	12000
MEDIAN (ppm)	14600	10250	2300	17600	237196	13175
MAX (ppm)	15830	11100	2689	19117	257950	14340
IQR (ppm)	528	400	122	753	7345	525
COUNT	85	85	23	86	82	80

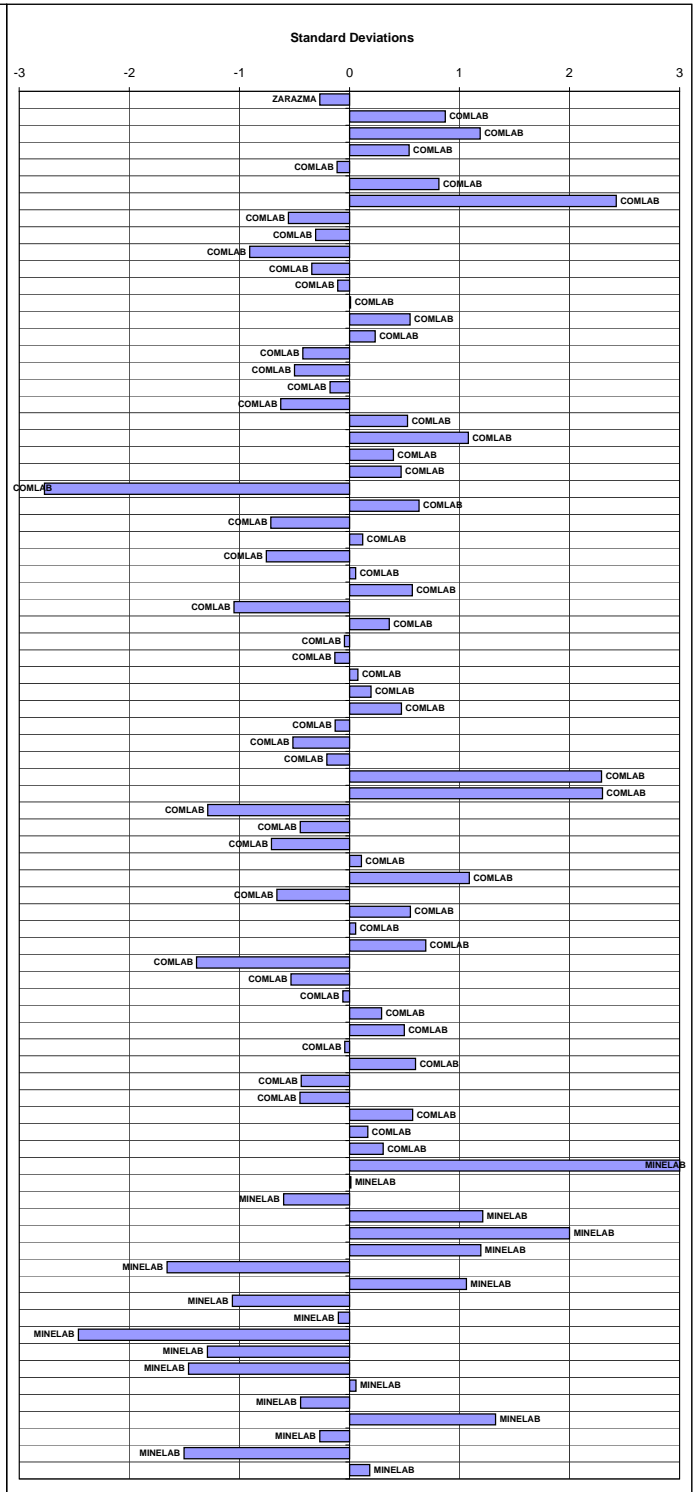
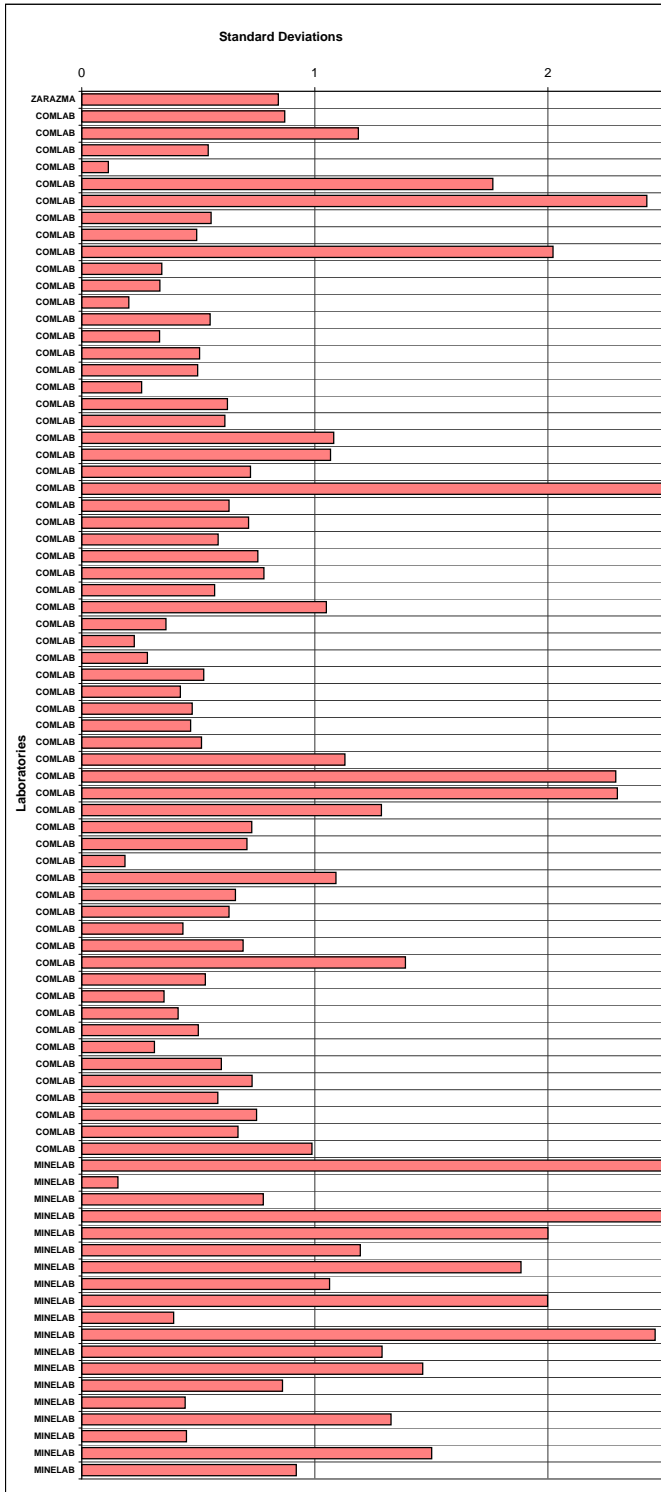
Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	14274	-0.57	10104	-0.26	nr	nr	17135	-0.55	222708	-1.80	12479	-1.47	AR	ES
COMLAB	14577	0.02	10497	0.95	2352	0.05	17494	-0.01	231658	-0.71	13589	1.00	4A	AAS
COMLAB	15430	1.70	10570	1.18	2320	-0.16	18450	1.42	235300	-0.27	12990	-0.33	AR	OES
COMLAB	14300	-0.52	9680	-1.56	nr	nr	17200	-0.45	239000	0.18	12600	-1.20	4A,FUS	OES
COMLAB	14600	0.07	10000	-0.58	nr	nr	17100	-0.60	235800	-0.21	13100	-0.09	4A	VOL
COMLAB	14360	-0.40	10420	0.71	nr	nr	18030	0.79	243580	0.74	11580	-3.00	1A,AR	AAS
COMLAB	14300	-0.52	10400	0.65	nr	nr	18200	1.05	246000	1.03	12900	-0.53	AR	AAS
COMLAB	13900	-1.31	9930	-0.79	nr	nr	17600	0.15	241000	0.43	12200	-2.09	4A	OES
COMLAB	14000	-1.11	9750	-1.35	nr	nr	17100	-0.60	240000	0.30	12600	-1.20	4A	OES
COMLAB	13300	-2.49	10600	1.27	2250	-0.64	17300	-0.30	230000	-0.91	13000	-0.31	FUS	OES
COMLAB	14600	0.07	10350	0.50	nr	nr	17900	0.60	236000	-0.18	13350	0.47	4A	OES
COMLAB	14600	0.07	10250	0.19	nr	nr	17900	0.60	235000	-0.30	13250	0.24	4A	ES
COMLAB	14560	-0.01	10320	0.41	nr	nr	17480	-0.03	236040	-0.18	13820	1.51	4A	ES
COMLAB	15000	0.86	11100	2.80	nr	nr	17850	0.52	242000	0.55	13450	0.69	4A	OES
COMLAB	nr	nr	9990	-0.61	nr	nr	16800	-1.05	236000	-0.18	12750	-0.87	4A	AAS
COMLAB	14700	0.27	10450	0.81	nr	nr	17050	-0.68	244000	0.79	13000	-0.31	4A	AAS
COMLAB	14950	0.76	10300	0.35	nr	nr	17500	0.00	233000	-0.55	13000	-0.31	4A	OES
COMLAB	14500	-0.13	10250	0.19	nr	nr	17700	0.30	257000	2.37	12950	-0.42	AR	AAS
COMLAB	14700	0.27	10200	0.04	nr	nr	17700	0.30	233000	-0.55	13350	0.47	AR	OES
COMLAB	14700	0.27	10400	0.65	nr	nr	17600	0.15	236300	-0.15	13200	0.13	4A	AAS
COMLAB	14400	-0.33	10500	0.96	nr	nr	16100	-2.10	242000	0.55	13100	-0.09	4A	OES
COMLAB	13300	-2.49	8690	-3.00	nr	nr	15810	-2.54	238800	0.13	12850	-0.65	4A	ES
COMLAB	13300	-2.49	9400	-2.42	nr	nr	15300	-3.00	215000	-2.74	13000	-0.31	FUS	OES
COMLAB	14528	-0.07	9655	-1.64	nr	nr	15829	-2.51	224424	-1.59	12662	-1.07	AR	AAS
COMLAB	14880	0.62	10160	-0.09	nr	nr	17800	0.45	244400	0.84	13140	0.00	1A	AAS
COMLAB	15300	1.45	10600	1.27	nr	nr	18600	1.65	238000	0.06	13600	1.02	4A	MS
COMLAB	14200	-0.72	9930	-0.79	2290	-0.37	17300	-0.30	241000	0.43	11750	-3.00	FUS	XRF
COMLAB	14800	0.46	10400	0.65	nr	nr	17600	0.15	235000	-0.30	12900	-0.53	4A	OES
COMLAB	14700	0.27	10600	1.27	2293	-0.35	17900	0.60	219900	-2.14	12600	-1.20	4A	AAS
COMLAB	14800	0.46	10500	0.96	nr	nr	17800	0.45	234800	-0.33	12900	-0.53	3A	VOL
COMLAB	13420	-2.25	10030	-0.48	nr	nr	15620	-2.82	106900	-3.00	12740	-0.89	4A	OES
COMLAB	15122	1.10	10379	0.59	nr	nr	18118	0.92	236604	-0.11	13631	1.09	3A	MS
COMLAB	14800	0.46	10400	0.65	nr	nr	17800	0.45	234700	-0.34	13200	0.13	4A	AAS
COMLAB	15160	1.17	9800	-1.19	nr	nr	17400	-0.15	242800	0.64	12920	-0.49	4A	AAS
COMLAB	15167	1.18	10627	1.35	nr	nr	17934	0.65	253087	1.90	13487	0.77	4A	OES
COMLAB	14528	-0.07	10478	0.89	nr	nr	17360	-0.21	249168	1.42	13824	1.52	4A	OES
COMLAB	14500	-0.13	10300	0.35	nr	nr	17600	0.15	243000	0.67	13100	-0.09	4A	AAS
COMLAB	15000	0.86	10000	-0.58	nr	nr	17600	0.15	236000	-0.18	13300	0.36	3A	AAS
COMLAB	18132	3.00	11806	3.00	2074	-1.84	19652	3.00	303336	3.00	16307	3.00	3A	AAS
COMLAB	14700	0.27	10300	0.35	2280	-0.44	17700	0.30	244000	0.79	13400	0.58	AR	OES
COMLAB	14111	-0.89	9866	-0.99	nr	nr	16832	-1.00	219241	-2.22	12086	-2.35	3A	MS,OES
COMLAB	14254	-0.61	10023	-0.51	2290	-0.37	16779	-1.08	238119	0.08	14017	1.95	1A,4A	AAS
COMLAB	14606	0.08	10350	0.50	nr	nr	17142	-0.54	238819	0.16	13412	0.60	4A	AAS
COMLAB	14400	-0.33	10500	0.96	2400	0.38	17600	0.15	240000	0.30	16200	3.00	AR	ES
COMLAB	15519	1.88	9044	-3.00	nr	nr	17463	-0.06	22863	-3.00	13417	0.62	FUS	ICP
COMLAB	16530	3.00	11400	3.00	nr	nr	18930	2.14	252300	1.80	14340	2.67	3A	AAS
COMLAB	14868	0.60	10242	0.17	2295	-0.33	17958	0.68	235050	-0.30	13385	0.54	3A	OES
COMLAB	14112	-0.89	9719	-1.44	nr	nr	17610	0.16	234640	-0.35	12687	-1.01	4A	OES
COMLAB	14400	-0.33	10000	-0.58	nr	nr	17000	-0.75	234400	-0.38	12800	-0.76	4A	AAS
COMLAB	15200	1.25	10500	0.96	2300	-0.30	18700	1.80	237600	0.01	15500	3.00	4A	AAS
COMLAB	14500	-0.13	10400	0.65	nr	nr	17500	0.00	232400	-0.62	12900	-0.53	4A	AAS
COMLAB	14800	0.46	10100	-0.27	nr	nr	18000	0.75	244000	0.79	13400	0.58	4A	AAS
COMLAB	14600	0.07	9904	-0.87	nr	nr	17200	-0.45	246925	1.15	13200	0.13	4A	OES
COMLAB	14200	-0.72	10300	0.35	nr	nr	17200	-0.45	254000	2.01	13900	1.69	4A	OES
COMLAB	12500	-3.00	10000	-0.58	nr	nr	18000	0.75	221000	-2.01	9100	-3.00	4A,FUS	OES
COMLAB	14086	-0.94	9674	-1.58	2289	-0.38	17140	-0.54	242731	0.64	12977	-0.36	4A	OES
COMLAB	14100	-0.92	10100	-0.27	nr	nr	17500	0.00	239500	0.24	13400	0.58	3A	OES
COMLAB	15130	1.11	10280	0.28	nr	nr	18410	1.36	237000	-0.06	13610	1.05	AR	AAS
COMLAB	14360	-0.40	10080	-0.33	nr	nr	17680	0.27	234150	-0.41	13390	0.56	3A	OES
COMLAB	14206	-0.71	10129	-0.18	nr	nr	17481	-0.03	240185	0.33	13331	0.42	4A	OES
COMLAB	14110	-0.90	10120	-0.21	2270	-0.50	17330	-0.26	237220	-0.03	13080	-0.13	3A	ES
COMLAB	14330	-0.46	10270	0.25	2270	-0.50	17870	0.55	235060	-0.30	13250	0.24	3A	OES
COMLAB	14785	0.43	10311	-0.24	2311	-0.23	17740	0.36	237354	-0.02	13516	0.84	3A	OES
COMLAB	14640	0.15	10250	0.19	nr	nr	17620	0.18	217220	-2.47	13470	0.73	4A	AAS
COMLAB	14500	-0.13	10300	0.35	nr	nr	17700	0.30	ald	ald	12600	-1.20	3A,4A	AAS
COMLAB	14960	0.78	10720	1.64	nr	nr	18240	1.11	247300	1.19	13550	0.91	3A	OES
MINELAB	14760	0.38	10213	0.08	nr	nr	nr	nr	238100	0.07	13900	1.69	AR	AAS
MINELAB	22449	3.00	14603	3.00	nr	nr	27251	3.00	695	-3.00	18729	3.00	AR	AAS
MINELAB	14600	0.07	10100	-0.27	nr	nr	17600	0.15	236000	-0.18	13100	-0.09	4A	AAS
MINELAB	15130	1.11	10440	0.78	nr	nr	18070	0.85	242700	0.63	13550	0.91	AR	AAS,ICP
MINELAB	14400	-0.33	10300	0.35	2400	0.38	17100	-0.60	212300	-3.00	13500	0.80	3A	OES
MINELAB	14094	-0.93	9680	-1.56	nr	nr	2272	-3.00	232042	-0.66	12950	-0.42	FUS	XRF
MINELAB	14828	0.52	10891	2.16	2689	2.34	17818	0.47	243294	0.70	13632	1.09	AR	AAS
MINELAB	14774	0.41	10253	0.20	nr	nr	18244	1.11	237171	-0.04	12993	-0.33	AR	OES
MINELAB	1													



Ore Grade Lead Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (ppm)	10802	3600	24	508	3329	2119
STDEV (ppm)	596	162	13	44	198	139
95% CI (ppm)	133	37	9	20	45	32
95% CI (%)	1.23%	1.02%	35.64%	4.01%	1.36%	1.50%
MIN (ppm)	9281	3190	4	438	2900	1790
MEDIAN (ppm)	10800	3600	22	500	3306	2117
MAX (ppm)	12000	4000	50	600	3800	2460
IQR (ppm)	690	200	14	40	215	169
COUNT	78	75	10	19	74	74

Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	10448	-0.59	3336	-1.63	nr	nr	nr	nr	3417	0.44	2217	0.71	AR	ES
COMLAB	11030	0.38	3787	1.16	80	3.00	548	0.91	3469	0.71	2290	1.23	4A	AAS
COMLAB	11900	0.84	3800	1.24	<200	blid	500	-0.18	3600	1.37	2300	1.31	4A	OES
COMLAB	11800	1.67	3650	0.31	nr	nr	nr	nr	3350	0.10	2130	0.08	4A,FUS	OES
COMLAB	10700	-0.17	3600	0.00	nr	nr	nr	nr	3300	-0.15	2100	-0.14	4A	AAS,VOL
COMLAB	9670	-1.90	3650	0.31	nr	nr	500	-0.18	3800	2.38	2460	2.46	1A,AR	AAS
COMLAB	11900	1.84	4000	2.47	nr	nr	nr	nr	3800	2.38	2700	-3.00	AR	AAS
COMLAB	10500	-0.51	3540	-0.37	nr	nr	nr	nr	3190	-0.70	2030	-0.64	4A	OES
COMLAB	10400	-0.67	3490	-0.68	nr	nr	nr	nr	3280	-0.25	2170	0.37	4A	OES
COMLAB	9680	-1.88	3340	-1.60	<50	blid	510	0.05	3770	2.23	1790	-2.37	FUS	OES
COMLAB	10800	0.00	3520	-0.49	nr	nr	nr	nr	3240	-0.45	2060	-0.42	4A	OES
COMLAB	10350	-0.76	3580	-0.12	nr	nr	nr	nr	3390	0.31	2140	0.15	4A	ES
COMLAB	10600	-0.34	3620	0.13	nr	nr	nr	nr	3320	-0.05	2160	0.30	4A	ES
COMLAB	11150	0.58	3720	0.74	nr	nr	nr	nr	3430	0.51	2170	0.37	4A	OES
COMLAB	nr	nr	3690	0.56	nr	nr	nr	nr	3300	-0.15	2160	0.30	4A	AAS
COMLAB	10900	0.16	3530	-0.43	nr	nr	nr	nr	3160	-0.86	2040	-0.57	4A	AAS
COMLAB	10550	-0.42	3530	-0.43	nr	nr	nr	nr	3160	-0.86	2080	-0.28	4A	OES
COMLAB	10900	0.16	3550	-0.31	nr	nr	nr	nr	3260	-0.35	2090	-0.21	AR	AAS
COMLAB	10800	0.00	3450	-0.92	nr	nr	nr	nr	3160	-0.86	2020	-0.71	AR	OES
COMLAB	10700	-0.17	3700	0.62	nr	nr	nr	nr	3400	0.36	2300	1.31	4A	AAS
COMLAB	11400	1.00	3840	1.48	nr	nr	nr	nr	3520	0.96	2240	0.87	4A	OES
COMLAB	10080	-1.21	3580	-0.12	nr	nr	nr	nr	3480	0.76	2420	2.17	4A	ES
COMLAB	10500	-0.51	3600	0.00	nr	nr	nr	nr	3400	0.36	2400	2.03	FUS	OES
COMLAB	9281	-2.55	3190	-2.53	nr	nr	nr	nr	2046	-3.00	1217	-3.00	AR	AAS
COMLAB	11640	1.41	3680	0.50	nr	nr	nr	nr	3380	0.26	2170	0.37	1A	AAS
COMLAB	10300	-0.84	3500	-0.62	nr	nr	nr	nr	3150	-0.91	2050	-0.50	4A	MS
COMLAB	10250	-0.93	3600	0.00	50	1.96	560	1.18	3450	0.61	2230	0.80	FUS	XRF
COMLAB	9950	-1.43	3470	-0.80	nr	nr	nr	nr	3200	-0.65	2100	-0.14	4A	MS
COMLAB	11800	1.67	3568	-0.20	4	-1.53	456	-1.18	3202	-0.64	2034	-0.61	4A	AAS
COMLAB	11000	0.33	3798	1.23	nr	nr	nr	nr	3401	0.36	2169	0.36	4A	AAS
COMLAB	10713	-0.15	3301	-1.84	nr	nr	nr	nr	3046	-1.43	2012	-0.77	3A	MS
COMLAB	11100	0.50	3600	0.00	nr	nr	nr	nr	3400	0.36	2200	0.59	4A	AAS
COMLAB	10480	-0.54	3636	0.22	nr	nr	nr	nr	3332	0.01	2136	0.12	4A	AAS
COMLAB	10370	-0.72	3583	-0.10	nr	nr	nr	nr	3337	0.04	2155	0.26	4A	OES
COMLAB	10300	-0.84	3722	0.76	nr	nr	nr	nr	3417	0.44	2112	-0.05	4A	MS
COMLAB	10700	-0.17	3800	1.24	nr	nr	nr	nr	3300	-0.15	2100	-0.14	4A	AAS
COMLAB	11000	0.33	3700	0.62	nr	nr	nr	nr	3400	0.36	2200	0.59	3A	AAS
COMLAB	10900	0.16	3510	-0.55	21	-0.22	485	-0.52	3430	0.51	2030	-0.64	AR	OES
COMLAB	10205	-1.00	3544	-0.34	nr	nr	nr	nr	3235	-0.48	2087	-0.23	3A	MS,OES
COMLAB	11744	1.58	3643	0.27	nr	nr	nr	nr	3021	-1.56	1965	-1.11	4A	AAS
COMLAB	10900	0.16	4300	3.00	1400	3.00	1200	3.00	4800	3.00	4300	3.00	AR	ES
COMLAB	11646	1.42	4599	3.00	nr	nr	nr	nr	4370	3.00	2365	1.78	FUS	ICP
COMLAB	10440	-0.81	3395	-1.26	nr	nr	nr	nr	3080	-1.26	1840	-2.01	3A	AAS
COMLAB	11000	0.33	3638	0.24	28	0.29	499	-0.20	3311	-0.09	1806	-2.26	3A	OES
COMLAB	10577	-0.38	3407	-1.19	nr	nr	nr	nr	3287	-0.21	1973	-1.05	4A	OES
COMLAB	10800	0.00	3600	0.00	nr	nr	nr	nr	3300	-0.15	2200	0.59	4A	AAS
COMLAB	11500	1.17	3800	1.24	<100	blid	600	2.09	3500	0.86	nr	nr	4A	AAS
COMLAB	10800	0.00	3500	-0.62	nr	nr	nr	nr	3100	-1.16	2000	-0.86	4A	AAS
COMLAB	10800	0.00	3925	2.01	nr	nr	nr	nr	3299	-0.15	2169	0.36	4A	AAS
COMLAB	10900	0.16	3478	-0.75	nr	nr	nr	nr	3488	0.80	2121	0.02	4A	OES
COMLAB	11100	0.50	3740	0.87	nr	nr	nr	nr	3420	0.46	2250	0.95	3A	OES
COMLAB	9600	-2.02	3400	-1.23	nr	nr	nr	nr	2900	-2.17	2100	-0.14	FUS	XRF
COMLAB	10498	-0.51	3473	-0.78	34	0.75	476	-0.72	3211	-0.60	2087	-0.23	4A	OES
COMLAB	10400	-0.67	3600	0.00	nr	nr	nr	nr	3300	-0.15	2200	0.59	3A	OES
COMLAB	10660	-0.24	3740	0.87	nr	nr	nr	nr	3350	0.10	2180	0.44	AR	AAS
COMLAB	11100	0.50	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	3A	OES
COMLAB	11123	0.54	3590	-0.06	nr	nr	nr	nr	3215	-0.58	2109	-0.07	4A	OES
COMLAB	11300	0.84	3700	0.62	<100	blid	500	-0.18	3400	0.36	2200	0.59	3A	ES
COMLAB	9800	-1.68	3600	0.00	<100	blid	500	-0.18	3200	-0.65	2200	0.59	3A	OES
COMLAB	10963	0.27	3493	-0.66	18	-0.47	484	-0.54	3128	-1.02	2065	-0.39	3A,3A	OES
COMLAB	11590	1.32	3720	0.74	nr	nr	nr	nr	3260	-0.35	2200	0.59	4A	AAS
COMLAB	11800	1.67	3600	0.00	nr	nr	nr	nr	3300	-0.15	2000	-0.86	3A,4A	AAS
COMLAB	10330	-0.79	3740	0.87	nr	nr	nr	nr	3670	1.72	2040	-0.57	3A	OES
MINELAB	14179	3.00	4397	3.00	nr	nr	438	-1.59	4239	3.00	2873	3.00	AR	AAS
MINELAB	11000	0.33	3600	0.00	nr	nr	nr	nr	3300	-0.15	2100	-0.14	4A	AAS
MINELAB	11020	0.37	3507	-0.57	nr	nr	nr	nr	3105	-1.13	1974	-1.04	AR	AAS,ICP
MINELAB	11900	1.84	4100	3.00	500	3.00	600	2.09	2400	-3.00	3300	3.00	3A	OES
MINELAB	12632	3.00	3942	2.11	nr	nr	nr	nr	3768	2.22	2211	0.66	FUS	XRF
MINELAB	11646	1.42	3818	1.35	nr	nr	nr	nr	3457	0.65	2309	1.37	AR	OES
MINELAB	9000	-3.00	3425	-1.08	nr	nr	nr	nr	2258	-3.00	2183	0.46	AR	AAS
MINELAB	11130	0.55	3942	2.11	35	0.78	455	-1.19	3407	0.39	2285	1.20	AD	AAS
MINELAB	11917	1.87	332	-3.00	20	-0.33	519	0.25	3031	-1.51	1895	-1.61	AD	AAS
MINELAB	10300	-0.84	3600	0.00	nr	nr	nr	nr	3300	-0.15	2200	0.59	3A	AAS
MINELAB	10300	-0.84	<1000	-3.00	nr	nr	nr	nr	1200	-3.00	1050	-3.00	FUS	XRF
MINELAB	9779	-1.72	3520	-0.49	nr	nr	nr	nr	3013	-1.60	1932	-1.35	AR	OES
MINELAB	10746	-0.09	3348	-1.55	nr	nr	nr	nr	2916	-2.09	1826	-2.11	AR	OES
MINELAB	10771	-0.05	3745	0.90	22	-0.16	490	-0.41	3516	0.94	1904	-1.55	4A	OES
MINELAB	10650	-0.26	3400	-1.23	nr	nr	nr	nr	3300	-0.15	2100	-0.14	3A	AAS
MINELAB	12000	2.01	3700	0.62	nr									



Ore Grade Zinc Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (ppm)	31192	14425	153	872	11878	26521
STDEV (ppm)	1464	575	45	55	454	1312
95% CI (ppm)	327	128	21	25	103	299
95% CI (%)	1.05%	0.89%	13.63%	2.84%	0.87%	1.13%
MIN (ppm)	27416	12946	80	760	10650	22850
MEDIAN (ppm)	31100	14344	160	870	11901	26600
MAX (ppm)	35049	15880	250	1000	13000	29700
IQR (ppm)	1939	614	72	55	490	1539
COUNT	78	78	19	20	75	75

Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	32500	0.89	14500	0.13	250	2.14	900	0.51	12100	0.49	27500	0.75	NAA	ES
ZARAZMA	31590	0.27	14164	-0.45	nr	nr	nr	nr	12067	0.42	27185	0.51	AR	ES
COMLAB	30464	-0.50	13952	-0.82	165	0.26	856	-0.29	11631	-0.54	26672	0.11	4A	AAS
COMLAB	33000	1.23	15400	1.70	200	1.04	900	0.51	13000	2.47	29700	2.42	4A	OES
COMLAB	31100	-0.06	14200	-0.39	nr	nr	nr	nr	11900	0.05	25700	-0.63	4A,FUS	OES
COMLAB	31200	0.01	14100	-0.56	nr	nr	nr	nr	11900	0.05	26600	0.06	4A	AAS,VOL
COMLAB	33660	1.69	15880	2.53	nr	nr	490	-3.00	12740	1.90	26200	-0.24	1A,AR	AAS
COMLAB	30800	-0.27	15500	1.87	nr	nr	nr	nr	12600	1.59	31100	3.00	AR	AAS
COMLAB	29500	-1.16	13900	-0.91	nr	nr	nr	nr	11500	-0.83	24900	-1.24	4A	OES
COMLAB	29800	-0.95	14100	-0.56	nr	nr	nr	nr	12000	0.27	26900	0.29	4A	OES
COMLAB	29700	-1.02	15100	1.17	160	0.15	910	0.69	11800	-0.17	26700	0.14	FUS	OES
COMLAB	29300	-1.29	14200	-0.39	nr	nr	nr	nr	12050	0.38	26500	-0.02	4A	OES
COMLAB	29600	-1.09	14300	-0.22	nr	nr	nr	nr	12250	0.82	26100	-0.32	4A	ES
COMLAB	30770	-0.29	14630	0.36	nr	nr	nr	nr	12050	0.38	26660	0.11	4A	ES
COMLAB	33400	1.51	15750	2.30	nr	nr	nr	nr	12350	1.04	27000	0.36	4A	OES
COMLAB	nr	nr	14800	0.65	nr	nr	nr	nr	12000	0.27	26500	-0.02	4A	AAS
COMLAB	31300	0.07	15100	1.17	nr	nr	nr	nr	12550	1.48	27800	0.97	4A	AAS
COMLAB	30600	-0.40	14100	-0.56	nr	nr	nr	nr	11800	-0.17	26500	-0.02	4A	OES
COMLAB	31700	0.35	14650	0.39	nr	nr	nr	nr	12100	0.49	27400	0.67	AR	AAS
COMLAB	29300	-1.29	14000	-0.74	nr	nr	nr	nr	11800	-0.17	26100	-0.32	AR	OES
COMLAB	31000	-0.13	14200	-0.39	nr	nr	nr	nr	11800	-0.17	27700	0.90	4A	AAS
COMLAB	31100	-0.06	14500	0.13	nr	nr	nr	nr	11800	-0.17	26500	-0.02	4A	OES
COMLAB	29800	-0.95	13500	-1.61	nr	nr	nr	nr	11540	-0.74	27550	0.78	4A	ES
COMLAB	28400	-1.91	13600	-1.43	nr	nr	nr	nr	13500	3.00	28900	1.81	FUS	OES
COMLAB	19504	-3.00	10267	-3.00	nr	nr	nr	nr	8998	-3.00	17353	-3.00	AR	AAS
COMLAB	32740	1.06	14680	0.44	nr	nr	nr	nr	11690	-0.41	28010	1.13	1A	AAS
COMLAB	31900	0.48	14150	-0.48	nr	nr	nr	nr	11600	-0.61	26150	-0.28	4A	MS
COMLAB	30000	-0.81	14250	-0.30	180	0.59	930	1.05	12200	0.71	26750	0.17	FUS	XRF
COMLAB	31400	0.14	14100	-0.56	nr	nr	nr	nr	11600	-0.61	25700	-0.63	4A	OES
COMLAB	30200	-0.68	14200	-0.39	200	1.04	906	0.62	11400	-1.05	26300	-0.17	4A	AAS
COMLAB	32300	0.76	14300	-0.22	nr	nr	nr	nr	11600	-0.61	25700	-0.63	4A	AAS
COMLAB	18740	-3.00	10788	-3.00	nr	nr	nr	nr	9214	-3.00	17177	-3.00	4A	OES
COMLAB	32150	0.65	14663	0.41	nr	nr	nr	nr	11823	-0.12	27079	0.42	3A	MS
COMLAB	31100	-0.06	14300	-0.22	nr	nr	nr	nr	11700	-0.39	26300	-0.17	4A	AAS
COMLAB	33280	1.43	14320	-0.18	nr	nr	nr	nr	11920	0.09	26640	0.09	4A	AAS
COMLAB	30025	-0.80	13996	-0.75	nr	nr	nr	nr	12071	0.43	25648	-0.67	4A	OES
COMLAB	30801	-0.27	14397	-0.05	nr	nr	nr	nr	12041	0.36	26096	-0.32	4A	OES
COMLAB	30200	-0.68	14600	0.30	nr	nr	nr	nr	11800	-0.17	26700	0.14	4A	AAS
COMLAB	30000	-0.81	14200	-0.39	nr	nr	nr	nr	11300	-1.27	25100	-1.08	3A	AAS
COMLAB	31900	0.48	14100	-0.56	80	-1.61	865	-0.13	12400	1.15	24900	-1.24	AR	OES
COMLAB	31340	0.10	14828	0.70	176	0.50	nr	nr	11581	-0.65	27473	0.73	3A	MS,OES
COMLAB	31692	0.34	14357	-0.12	nr	nr	nr	nr	11732	-0.32	26157	-0.28	4A	AAS
COMLAB	26100	-3.00	12400	-3.00	<500	bid	760	-2.03	10300	-3.00	22000	-3.00	AR	ES
COMLAB	33966	1.89	13680	-1.30	nr	nr	nr	nr	11942	0.14	30529	3.00	FUS	ICP
COMLAB	34540	2.29	14965	0.94	nr	nr	nr	nr	12340	1.02	27990	1.12	3A	AAS
COMLAB	32106	0.62	14331	-0.16	105	-1.07	844	-0.51	11987	0.24	28566	1.56	3A	OES
COMLAB	27416	-2.58	12946	-2.57	nr	nr	nr	nr	10833	-2.30	24617	-1.45	4A	OES
COMLAB	30900	-0.20	14600	0.30	nr	nr	nr	nr	12200	0.71	26800	0.21	4A	AAS
COMLAB	32900	1.17	15200	1.35	200	1.04	1000	2.32	12400	1.15	nr	nr	4A	AAS
COMLAB	32500	0.89	14500	0.13	nr	nr	nr	nr	11700	-0.39	28100	1.20	4A	AAS
COMLAB	30800	-0.27	13800	-1.09	nr	nr	nr	nr	11900	0.05	24000	-1.92	4A	AAS
COMLAB	30105	-0.74	14000	-0.74	nr	nr	nr	nr	12300	0.93	23900	-2.00	4A	OES
COMLAB	31500	0.21	14400	-0.04	nr	nr	nr	nr	12000	0.27	25700	-0.63	4A	OES
COMLAB	32500	0.89	15500	1.87	nr	nr	nr	nr	10700	-2.60	26500	-0.02	FUS	XRF
COMLAB	32382	0.81	14758	0.58	129	-0.53	849	-0.42	11830	-0.11	27164	0.49	4A	OES
COMLAB	30000	-0.81	13800	-1.09	nr	nr	nr	nr	11200	-1.49	25300	-0.93	3A	OES
COMLAB	31760	0.39	14710	0.50	nr	nr	nr	nr	11990	0.25	26260	-0.20	AR	AAS
COMLAB	32200	0.69	14400	-0.04	nr	nr	nr	nr	11600	-0.61	27500	0.75	3A	OES
COMLAB	31202	0.01	14377	-0.08	nr	nr	nr	nr	11901	0.05	27782	0.96	4A	OES
COMLAB	32200	0.69	14900	0.83	100	-1.18	800	-1.31	12200	0.71	27200	0.52	3A	ES
COMLAB	30200	-0.68	14600	0.30	100	-1.18	900	0.51	11800	-0.17	27400	0.67	3A	OES
COMLAB	31951	0.52	13919	-0.88	105	-1.07	847	-0.45	11585	-0.65	26788	0.20	3A,3A	OES
COMLAB	31440	0.17	14250	-0.30	nr	nr	nr	nr	11620	-0.57	25700	-0.63	4A	AAS
COMLAB	28800	-1.63	11700	-3.00	nr	nr	nr	nr	9400	-3.00	23600	-2.23	3A,4A	AAS
COMLAB	31030	-0.11	14630	0.36	nr	nr	nr	nr	13290	3.00	26120	-0.31	3A	OES
MINELAB	31915	0.49	15215	1.37	nr	nr	nr	nr	12615	1.63	28050	1.16	AR	AAS
MINELAB	30900	-0.20	14300	-0.22	nr	nr	nr	nr	12000	0.27	26200	-0.24	4A	AAS
MINELAB	33350	1.47	14750	0.57	nr	nr	nr	nr	12130	0.56	29070	1.94	AR	AAS,ICP
MINELAB	32800	1.10	14700	0.48	bid	bid	800	-1.31	12300	0.93	27600	0.82	3A	OES
MINELAB	37938	3.00	1096	-3.00	nr	nr	nr	nr	14273	3.00	32390	3.00	FUS	XRF
MINELAB	31682	0.33	14251	-0.30	nr	nr	nr	nr	11932	0.12	27969	1.10	AR	OES
MINELAB	30875	-0.22	13625	-1.39	nr	nr	nr	nr	11250	-1.38	25000	-1.16	AR	AAS
MINELAB	36800	3.00	16967	3.00	157	0.08	875	0.05	13513	3.00	31307	3.00	AD	AAS
MINELAB	3359	-3.00	13999	-0.74	127	-0.57	938	1.21	12062	0.41	26739	0.17	AD	AAS
MINELAB	30900	-0.20	13500	-1.61	nr	nr	nr	nr	10200	-3.00	27600	0.82	3A	AAS
MINELAB	30600	-0.40	<100	-3.00	nr	nr	nr	nr	10650	-2.71	22850	-2.80	FUS	XRF
MINELAB	31500	0.21	14400	-0.04	121	-0.71	865	-0.13	11500	-0.83	26400	-0.09	AR	ES
MINELAB	27452	-2.55	13933	-0.86	nr	nr	nr	nr	110					

Ore Grade Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (ppm)	80	668	26925	45	303	115238
STDEV (ppm)	19	47	1166	13	25	3931
95% CI (ppm)	11	25	293	8	14	1029
95% CI (%)	13.45%	3.79%	1.09%	17.12%	4.73%	0.89%
MIN (ppm)	50	586	23750	30	260	105000
MEDIAN (ppm)	78	678	27150	44	300	115000
MAX (ppm)	110	740	29140	63	350	124690
IQR (ppm)	27	56	1287	26	33	4000
COUNT	13	14	62	12	13	57

Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
BECQUEREL-NAA	94	0.75	609	-1.26	26800	-0.11	36	-0.72	287	-0.63	117000	0.45	NAA	
ZARAZMA	nr	nr	nr	nr	26772	-0.13	nr	nr	nr	nr	113664	-0.40	AR	ES
COMLAB	94	0.75	662	-0.12	27002	0.07	63	1.33	300	-0.11	113852	-0.35	4A	AAS
COMLAB	110	1.60	710	0.91	27370	0.38	60	1.10	320	0.68	110600	-1.18	4A	OES
COMLAB	nr	nr	nr	nr	26600	-0.28	nr	nr	nr	nr	115000	-0.06	4A,FUS	OES
COMLAB	nr	nr	nr	nr	26600	-0.28	nr	nr	nr	nr	114500	-0.19	4A	AAS
COMLAB	nr	nr	nr	nr	27800	0.75	nr	nr	nr	nr	105000	-2.60	AR	AAS
COMLAB	nr	nr	nr	nr	27500	0.49	nr	nr	nr	nr	117000	0.45	4A	OES
COMLAB	nr	nr	nr	nr	26100	-0.71	nr	nr	nr	nr	112000	-0.82	4A	OES
COMLAB	110	1.60	680	0.26	28200	1.09	60	1.10	340	1.47	114000	-0.32	FUS	OES
COMLAB	nr	nr	nr	nr	27100	0.15	nr	nr	nr	nr	115000	-0.06	4A	OES
COMLAB	nr	nr	nr	nr	27400	0.41	nr	nr	nr	nr	118000	0.70	4A	ES
COMLAB	nr	nr	nr	nr	26450	-0.41	nr	nr	nr	nr	115600	0.09	4A	ES
COMLAB	nr	nr	nr	nr	27500	0.49	nr	nr	nr	nr	114500	-0.19	4A	OES
COMLAB	nr	nr	nr	nr	24700	-1.91	nr	nr	nr	nr	114500	-0.19	4A	AAS
COMLAB	nr	nr	nr	nr	27400	0.41	nr	nr	nr	nr	117500	0.58	4A	AAS
COMLAB	nr	nr	nr	nr	26600	-0.28	nr	nr	nr	nr	113000	-0.57	4A	OES
COMLAB	nr	nr	nr	nr	27900	0.84	nr	nr	nr	nr	115000	-0.06	AR	AAS
COMLAB	nr	nr	nr	nr	26200	-0.62	nr	nr	nr	nr	>100000	ald	AR	OES
COMLAB	nr	nr	nr	nr	27400	0.41	nr	nr	nr	nr	114500	-0.19	4A	AAS
COMLAB	nr	nr	nr	nr	26700	-0.19	nr	nr	nr	nr	116000	0.19	4A	OES
COMLAB	nr	nr	nr	nr	24210	-2.33	nr	nr	nr	nr	110500	-1.21	4A	ES
COMLAB	nr	nr	nr	nr	25100	-1.57	nr	nr	nr	nr	119000	0.96	FUS	OES
COMLAB	nr	nr	nr	nr	2206	-3.00	nr	nr	nr	nr	24298	-3.00	AR	AAS
COMLAB	nr	nr	nr	nr	28550	1.39	nr	nr	nr	nr	119600	1.11	1A	AAS
COMLAB	nr	nr	nr	nr	26400	-0.45	nr	nr	nr	nr	120000	1.21	4A	MS
COMLAB	90	0.54	700	0.69	28050	0.96	60	1.10	350	1.86	103000	-3.00	FUS	XRF
COMLAB	nr	nr	nr	nr	26700	-0.19	nr	nr	nr	nr	114000	-0.32	4A	OES
COMLAB	81	0.07	724	1.21	>10000	ald	50	0.34	302	-0.03	>10000	ald	4A	OES
COMLAB	nr	nr	nr	nr	27800	0.75	nr	nr	nr	nr	113500	-0.44	4A	AAS
COMLAB	182	3.00	694	0.57	26010	-0.78	nr	nr	287	-0.63	110099	-1.31	4A	OES
COMLAB	nr	nr	nr	nr	28129	1.03	nr	nr	nr	nr	118346	0.79	3A	MS
COMLAB	nr	nr	nr	nr	27000	0.06	nr	nr	nr	nr	115300	0.02	4A	AAS
COMLAB	nr	nr	nr	nr	28062	0.97	nr	nr	nr	nr	121992	1.72	4A	OES
COMLAB	nr	nr	nr	nr	27448	0.45	nr	nr	nr	nr	121102	1.49	4A	OES
COMLAB	nr	nr	nr	nr	23300	-3.00	nr	nr	nr	nr	97200	-3.00	4A	AAS
COMLAB	nr	nr	nr	nr	27900	0.84	nr	nr	nr	nr	114000	-0.32	3A	AAS
COMLAB	74	-0.32	676	0.18	25700	-1.05	33	-0.96	325	0.87	113600	-0.42	AR	OES
COMLAB	78	-0.09	nr	nr	25867	-0.91	nr	nr	nr	nr	113128	-0.54	3A	MS,OES
COMLAB	nr	nr	nr	nr	25654	-1.09	nr	nr	nr	nr	111204	-1.03	4A	AAS
COMLAB	<500	bld	740	1.55	27600	0.58	<500	bld	<500	bld	117000	0.45	AR	ES
COMLAB	nr	nr	nr	nr	33105	3.00	nr	nr	nr	nr	174300	3.00	FUS	ICP
COMLAB	nr	nr	nr	nr	32400	3.00	nr	nr	nr	nr	141100	3.00	3A	AAS
COMLAB	68	-0.62	586	-1.75	27300	0.32	52	0.49	379	3.00	110900	-1.10	3A	OES
COMLAB	nr	nr	nr	nr	26501	-0.36	nr	nr	nr	nr	110517	-1.20	4A	OES
COMLAB	nr	nr	nr	nr	27200	0.24	nr	nr	nr	nr	115600	0.09	4A	AAS,VOL
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	300	-0.11	139600	3.00	4A	AAS
COMLAB	nr	nr	nr	nr	28200	1.09	nr	nr	nr	nr	112400	-0.72	4A	AAS
COMLAB	nr	nr	nr	nr	27300	0.32	nr	nr	nr	nr	107000	-2.10	4A	AAS
COMLAB	nr	nr	nr	nr	26133	-0.68	nr	nr	nr	nr	112305	-0.75	4A	OES
COMLAB	nr	nr	nr	nr	29000	1.78	nr	nr	nr	nr	118000	0.70	4A	OES
COMLAB	nr	nr	nr	nr	22400	-3.00	nr	nr	nr	nr	117000	0.45	FUS	XRF
COMLAB	61	-0.99	641	-0.57	27473	0.47	37	-0.64	292	-0.43	122023	1.73	4A	OES
COMLAB	nr	nr	nr	nr	27800	0.75	nr	nr	nr	nr	117600	0.60	AR,3A	OES
COMLAB	nr	nr	nr	nr	28000	0.92	nr	nr	nr	nr	115000	-0.06	AR	AAS
COMLAB	nr	nr	nr	nr	27250	0.28	nr	nr	nr	nr	118800	0.91	3A	OES
COMLAB	nr	nr	nr	nr	26929	0.00	nr	nr	nr	nr	115791	0.14	4A	OES
COMLAB	60	-1.04	680	0.26	29140	1.90	30	-1.18	300	-0.11	124690	2.40	3A	ES
COMLAB	50	-1.57	600	-1.45	26790	-0.12	30	-1.18	260	-1.69	114350	-0.23	3A	OES
COMLAB	67	-0.67	646	-0.47	27100	0.15	35	-0.80	274	-1.14	117290	0.52	3A	OES
COMLAB	nr	nr	nr	nr	27410	0.42	nr	nr	nr	nr	115580	0.09	4A	AAS
COMLAB	nr	nr	nr	nr	23850	-2.64	nr	nr	nr	nr	106000	-2.35	3A	OES
MINELAB	nr	nr	nr	nr	27100	0.15	nr	nr	nr	nr	116000	0.19	4A	AAS
MINELAB	nr	nr	nr	nr	27600	0.58	nr	nr	nr	nr	123400	2.08	AR	AAS,ICP
MINELAB	nr	nr	nr	nr	37206	3.00	nr	nr	nr	nr	153423	3.00	FUS	XRF
MINELAB	nr	nr	nr	nr	27888	0.83	nr	nr	nr	nr	44587	-3.00	AR	OES
MINELAB	nr	nr	nr	nr	23750	-2.72	nr	nr	nr	nr	102000	-3.00	AR	AAS
MINELAB	nr	nr	nr	nr	24654	-1.95	nr	nr	nr	nr	103357	-3.00	AR	OES
MINELAB	nr	nr	nr	nr	27904	0.84	nr	nr	nr	nr	119741	1.15	AR	OES
MINELAB	nr	nr	nr	nr	24830	-1.80	nr	nr	nr	nr	102945	-3.00	AR	ES

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. Insufficient results were received for the highlighted material. These results do not contribute to the error charts.

Ore Grade Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (ppm)	19.7	20.6	2.5	4.5	78.4	13.3
STDEV (ppm)	2.2	1.4	1.2	1.0	3.4	1.2
95% CI (ppm)	0.5	0.3	0.7	0.5	0.8	0.3
95% CI (%)	2.52%	1.53%	28.68%	11.10%	0.98%	1.98%
MIN (ppm)	13.7	16.9	0.9	3.0	70.3	10.1
MEDIAN (ppm)	19.6	20.6	2.8	4.4	78.5	13.5
MAX (ppm)	25.3	24.1	4.1	6.4	87.5	15.8
IQR (ppm)	1.9	1.0	1.8	1.2	3.9	1.0
COUNT	77	76	12	16	77	76

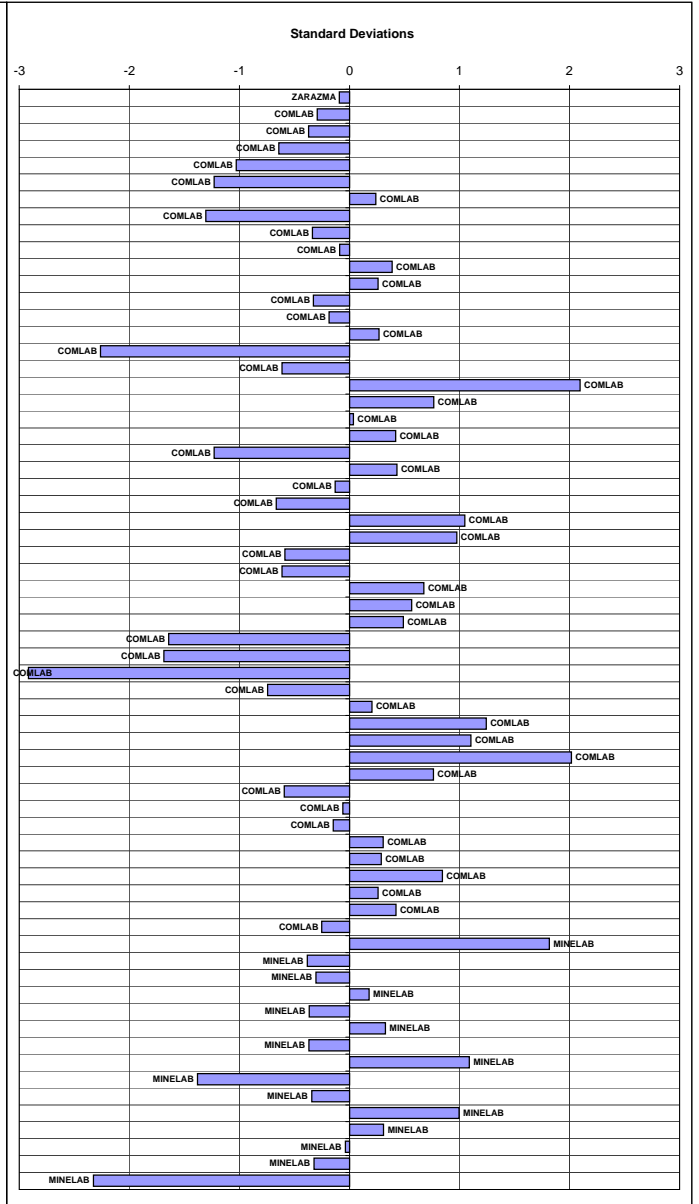
Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
Lab Reference														
BECQUEREL-NAA	18.0	-0.76	20.0	-0.42	<2.0	bld	3.0	-1.54	81.0	0.67	14.0	0.63	NAA	0.63
ZARAZMA	19.3	-0.18	20.2	-0.25	nr	nr	nr	nr	73.0	-1.15	12.1	-1.01	AR	ES
COMLAB	23.2	1.59	24.8	3.00	4.1	1.32	6.4	1.84	82.2	0.95	17.4	3.00	4A	AAS
COMLAB	20.0	0.15	21.0	0.30	<2.0	bld	4.0	-0.53	80.0	0.44	14.0	0.63	AR	OES
COMLAB	21.0	0.60	20.0	-0.42	nr	nr	nr	nr	77.0	-0.24	13.0	-0.23	4A	OES
COMLAB	20.0	0.15	22.0	1.02	nr	nr	nr	nr	81.0	0.67	14.3	0.88	4A	AAS
COMLAB	13.7	-2.70	16.9	-2.63	nr	nr	<1.0	-3.00	87.5	2.15	17.6	3.00	1A,AR	AAS
COMLAB	24.0	1.96	22.0	1.02	nr	nr	nr	nr	81.0	0.67	14.0	0.63	AR	AAS
COMLAB	19.0	-0.31	20.0	-0.42	nr	nr	nr	nr	77.0	-0.24	13.0	-0.23	4A	OES
COMLAB	18.0	-0.76	20.0	-0.42	nr	nr	nr	nr	78.0	-0.01	12.0	-1.10	4A	OES
COMLAB	20.0	0.15	21.0	0.30	nr	nr	nr	nr	80.0	0.44	14.0	0.63	4A	OES
COMLAB	19.0	-0.31	21.0	0.30	nr	nr	nr	nr	81.0	0.67	13.0	-0.23	4A	ES
COMLAB	19.0	-0.31	22.0	1.02	nr	nr	nr	nr	79.0	0.22	14.0	0.63	4A	ES
COMLAB	24.0	1.96	21.0	0.30	nr	nr	nr	nr	82.0	0.90	12.0	-1.10	4A	OES
COMLAB	nr	nr	20.0	-0.42	nr	nr	nr	nr	78.0	-0.01	13.0	-0.23	4A	AAS
COMLAB	19.0	-0.31	22.0	1.02	nr	nr	nr	nr	79.0	0.22	13.0	-0.23	4A	AAS
COMLAB	20.0	0.15	21.0	0.30	nr	nr	nr	nr	78.0	-0.01	13.0	-0.23	4A	OES
COMLAB	19.0	-0.31	21.0	0.30	nr	nr	nr	nr	81.0	0.67	14.0	0.63	AR	AAS
COMLAB	21.0	0.60	21.0	0.30	nr	nr	nr	nr	79.0	0.22	13.0	-0.23	AR	OES
COMLAB	19.5	-0.08	20.6	0.02	nr	nr	nr	nr	81.0	0.67	14.0	0.63	FUS	GRAV
COMLAB	20.0	0.15	20.0	-0.42	nr	nr	nr	nr	78.0	-0.01	14.0	0.63	4A	AAS
COMLAB	20.1	0.19	20.0	-0.42	nr	nr	nr	nr	79.2	0.26	13.7	0.37	4A	ES
COMLAB	8.3	-3.00	14.8	-3.00	nr	nr	nr	nr	73.9	-0.93	15.1	1.55	AR	AAS
COMLAB	20.0	0.15	21.0	0.30	nr	nr	nr	nr	79.0	0.22	13.0	-0.23	1A	AAS
COMLAB	19.0	-0.31	20.0	-0.42	nr	nr	nr	nr	78.0	-0.01	14.0	0.63	4A	MS
COMLAB	21.0	0.60	22.0	1.02	3.0	0.42	5.0	0.47	82.0	0.90	14.0	0.63	1A	AAS
COMLAB	18.5	-0.53	20.5	-0.06	nr	nr	nr	nr	78.0	-0.01	13.5	0.20	4A	MS
COMLAB	18.0	-0.76	21.0	0.30	1.5	-0.82	4.0	-0.53	83.0	1.13	14.0	0.63	4A	OES
COMLAB	20.4	0.33	21.2	0.45	nr	nr	nr	nr	77.9	-0.03	13.8	0.45	4A	AAS
COMLAB	19.0	-0.31	19.0	-1.14	nr	nr	nr	nr	75.0	-0.69	14.0	0.63	AR	AAS
COMLAB	21.0	0.60	22.0	1.02	nr	nr	nr	nr	80.0	0.44	14.0	0.63	4A	AAS
COMLAB	18.8	-0.40	20.0	-0.42	nr	nr	nr	nr	74.8	-0.74	13.5	0.20	4A	AAS
COMLAB	20.0	0.15	22.0	1.02	nr	nr	nr	nr	84.0	1.35	13.0	-0.23	4A	OES
COMLAB	19.6	-0.04	21.0	0.30	nr	nr	nr	nr	80.7	0.60	14.4	0.97	4A	MS
COMLAB	28.0	3.00	26.0	3.00	nr	nr	nr	nr	92.0	3.00	14.0	0.63	4A	AAS
COMLAB	20.0	0.15	20.0	-0.42	nr	nr	nr	nr	78.0	-0.01	13.0	-0.23	3A	AAS
COMLAB	25.0	2.42	22.0	1.02	4.0	1.25	6.0	1.48	72.0	-1.37	19.0	3.00	3A	AAS
COMLAB	19.5	-0.08	20.9	0.23	1.2	-1.11	3.9	-0.63	83.6	1.26	13.1	-0.15	AR	OES
COMLAB	19.3	-0.17	20.4	-0.13	nr	nr	nr	nr	76.7	-0.31	14.2	0.80	3A	MS
COMLAB	15.5	-1.90	20.5	-0.06	0.9	-1.32	3.3	-1.24	74.7	-0.76	14.9	1.40	1A,4A	AAS
COMLAB	20.1	0.19	19.5	-0.78	nr	nr	nr	nr	76.5	-0.35	13.6	0.28	4A	AAS
COMLAB	22.8	1.42	23.0	1.75	<5.0	bld	5.0	0.47	80.2	0.49	15.8	2.17	AR	AAS
COMLAB	20.0	0.15	21.0	0.30	nr	nr	nr	nr	72.0	-1.37	13.0	-0.23	3A	AAS
COMLAB	18.1	-0.72	19.8	-0.56	<1.0	bld	3.4	-1.14	78.1	0.01	10.7	-2.21	3A	OES
COMLAB	18.7	-0.44	20.0	-0.42	nr	nr	nr	nr	75.9	-0.49	12.6	-0.58	4A	AAS
COMLAB	<100.0	bld	<100.0	bld	<100.0	bld	<100.0	bld	nr	nr	<100.0	bld	4A	AAS
COMLAB	19.0	-0.31	20.0	-0.42	nr	nr	nr	nr	76.0	-0.46	13.0	-0.23	4A	AAS
COMLAB	17.0	-1.22	19.0	-1.14	nr	nr	nr	nr	74.0	-0.92	12.0	-1.10	4A	AAS
COMLAB	18.5	-0.53	18.0	-1.86	nr	nr	nr	nr	86.4	1.90	11.3	-1.70	4A	MS
COMLAB	22.0	1.06	23.0	1.75	nr	nr	nr	nr	79.0	0.22	13.0	-0.23	4A	OES
COMLAB	24.0	1.96	18.0	-1.86	nr	nr	nr	nr	59.0	-3.00	11.0	-1.96	AR	AAS
COMLAB	20.1	0.19	20.5	-0.06	1.5	-0.82	4.0	-0.53	75.8	-0.51	13.0	-0.23	4A	OES
COMLAB	17.7	-0.90	19.6	-0.70	nr	nr	nr	nr	70.3	-1.76	12.5	-0.66	AR	AAS
COMLAB	18.3	-0.63	20.6	0.02	nr	nr	nr	nr	78.1	0.01	12.9	-0.32	AR	AAS
COMLAB	18.6	-0.49	21.1	0.38	nr	nr	nr	nr	80.0	0.44	13.5	0.20	3A	OES
COMLAB	19.2	-0.22	20.0	-0.42	nr	nr	nr	nr	76.0	-0.46	12.3	-0.84	4A	OES
COMLAB	17.0	-1.22	21.0	0.30	<5.0	bld	<5.0	bld	80.0	0.44	13.0	-0.23	3A	ES
COMLAB	15.4	-1.94	18.4	-1.57	<5.0	bld	<5.0	bld	75.0	-0.69	10.1	-2.73	3A	OES
COMLAB	17.3	-1.08	20.2	-0.27	1.1	-1.15	3.8	-0.74	78.5	0.10	13.6	0.28	3A	OES
COMLAB	20.7	0.46	21.4	0.59	nr	nr	nr	nr	78.5	0.10	13.4	0.11	4A	AAS
COMLAB	19.9	0.10	20.4	-0.13	nr	nr	nr	nr	67.3	-3.00	13.0	-0.23	3A,4A	AAS
COMLAB	16.4	-1.50	19.3	-0.90	nr	nr	nr	nr	90.2	3.00	14.5	1.06	3A	OES
MINELAB	22.3	1.19	17.8	-2.01	nr	nr	nr	nr	53.7	-3.00	10.8	-2.14	AR	AAS
MINELAB	20.0	0.15	20.0	-0.42	nr	nr	nr	nr	79.0	0.22	13.0	-0.23	4A	AAS
MINELAB	21.2	0.69	20.9	0.20	nr	nr	nr	nr	79.4	0.30	14.1	0.74	AR	AAS,ICP
MINELAB	0.3	-3.00	2.6	-3.00	bld	bld	bld	bld	76.8	-0.28	8.1	-3.00	3A	OES
MINELAB	25.3	2.53	20.3	-0.21	nr	nr	nr	nr	78.7	0.15	11.0	-1.99	AR	OES
MINELAB	24.0	1.96	23.5	2.11	nr	nr	nr	nr	82.0	0.90	14.8	1.27	AR	AAS
MINELAB	21.2	0.69	16.4	-3.00	3.0	0.42	5.5	0.98	80.0	0.44	15.4	1.83	AD	AAS
MINELAB	23.1	1.53	21.0	0.33	2.8	0.26	5.4	0.83	73.0	-1.15	13.8	0.41	AD	AAS
MINELAB	20.0	0.15	23.0	1.75	nr	nr	nr	nr	77.0	-0.24	15.0	1.49	3A	AAS
MINELAB	20.0	0.15	24.0	2.47	nr	nr	nr	nr	81.0	0.67	19.0	3.00	3A	AAS
MINELAB	22.4	1.24	24.1	2.54	2.8	0.29	4.9	0.34	85.0	1.58	14.9	1.40	AR	ES
MINELAB	12.0	-3.00	14.0	-3.00	nr	nr	nr	nr	79.0	0.22	12.0	-1.10	AR	OES
MINELAB	16.3	-1.55	18.5	-1.50	nr	nr	nr	nr	83.5	1.25	14.7	1.27	AR	OES
MINELAB	20.4	0.33	20.8	0.16	nr	nr	nr	nr	75.1	-0.67	12.1	-1.01	AR	OES
MINELAB	20.0	0.15	22.0	1.02	nr	nr	nr	nr	80.0	0.44	14.0	0.63	3A	AAS
MINELAB	17.8	-0.83	19.9	-0.51	nr	nr	nr	nr	76.3	-0.39	14.0	0.59	3A	AAS
MINELAB	16.4	-1.49	18.0	-1.86	nr	nr	nr	nr	70.9	-1.62	13.7	0.37	1A,AR	AAS
MINELAB	19.0	-0.31	20.9	0.23	nr	nr	nr	nr	76.7	-0.31	12.6	-0.58	4A	AAS
MINELAB	17.1	-1.17	18.0	-1.86	nr	nr	nr	nr	74.9	-0.71	10.5	-2.39	AR	AAS
MINELAB	18.6	-0.49	20.2	-0.27	nr	nr	nr	nr	71.9	-1.40	12.1	-1.01	AR	ES
MINELAB	18.0	-0.76	21.0	0.30	4.0	1.25	5.0	0.47	79.0	0.22	17.0	3.00	2A	AAS

Sulphur in Ore Grade Samples Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
MEAN (%)	3.27	4.40	8.25	2.00	27.52	26.64
STDEV (%)	0.11	0.15	0.30	0.10	0.88	1.05
95% CI (%)	0.03	0.04	0.08	0.03	0.22	0.26
95% CI (rel %)	0.91%	0.86%	0.96%	1.29%	0.81%	0.98%
MIN (%)	3.08	4.04	7.65	1.74	25.40	24.20
MEDIAN (%)	3.27	4.42	8.23	2.01	27.55	26.70
MAX (%)	3.51	4.73	9.00	2.25	29.49	29.05
IQR (%)	0.16	0.21	0.41	0.11	1.18	1.33
COUNT	58	58	57	61	60	63

Standard Reference	GBM311-11		GBM311-12		GBM311-13		GBM311-14		GBM311-15		GBM311-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
ZARAZMA	3.11	-1.44	4.25	-1.08	8.42	0.54	2.25	2.37	28.25	0.83	24.78	-1.78	AR	ES
COMLAB	3.15	-1.05	4.51	0.72	8.42	0.55	1.93	-0.72	26.91	-0.69	26.05	-0.56	AR	OES
COMLAB	3.20	-0.61	4.24	-1.12	8.21	-0.14	2.03	0.26	27.20	-0.36	26.40	-0.23	FUS,CSA	IR
COMLAB	3.22	-0.44	4.16	-1.67	7.65	-1.99	1.91	-0.92	29.49	2.24	25.52	-1.07	CSA	IR
COMLAB	3.14	-1.14	4.21	-1.33	8.14	-0.38	1.95	-0.52	25.60	-2.19	26.00	-0.61	CSA	IR
COMLAB	3.15	-1.05	4.26	-0.99	7.97	-0.94	1.88	-1.21	26.10	-1.62	25.00	-1.57	FUS	OES
COMLAB	3.33	0.53	4.55	0.99	8.20	-0.18	1.93	-0.72	27.60	0.09	27.40	0.73	CSA	IR
COMLAB	3.19	-0.70	4.48	0.51	7.95	-1.00	1.86	-1.40	25.56	-2.23	23.49	-3.00	4A	ES
COMLAB	3.12	-1.31	4.35	-0.37	8.24	-0.05	1.98	-0.23	27.00	-0.59	27.20	0.53	CSA	IR
COMLAB	nr	nr	4.39	-0.10	8.03	-0.74	2.01	0.06	27.60	0.09	26.90	0.25	CSA	IR
COMLAB	3.33	0.53	4.52	0.79	8.19	-0.21	2.03	0.26	27.90	0.43	27.20	0.53	CSA	IR
COMLAB	3.25	-0.17	4.48	0.51	8.18	-0.24	1.98	-0.23	28.20	0.77	27.60	0.92	4A	OES,IR
COMLAB	3.28	0.09	4.42	0.10	7.95	-1.00	2.01	0.06	26.90	-0.71	26.10	-0.52	AR	OES
COMLAB	3.27	0.00	4.49	0.58	7.89	-1.20	1.99	-0.13	27.40	-0.14	26.40	-0.23	3A,GRAV	GRAV
COMLAB	3.33	0.53	4.42	0.10	8.38	0.42	2.09	0.84	27.40	-0.14	26.50	-0.13	CSA	IR
COMLAB	2.91	-3.00	3.85	-3.00	7.30	-3.00	1.80	-2.01	26.40	-1.28	25.29	-1.29	CSA	IR
COMLAB	3.25	-0.17	4.13	-1.88	7.23	-3.00	2.05	0.45	27.70	0.20	27.40	0.73	FUS	OES
COMLAB	3.64	3.00	5.01	3.00	9.35	3.00	2.13	1.23	28.60	1.23	27.80	1.11	CSA	IR
COMLAB	3.37	0.88	4.53	0.86	8.51	0.85	2.09	0.84	28.50	1.12	26.70	0.06	FUS	XRF
COMLAB	3.32	0.44	4.43	0.17	8.20	-0.18	2.04	0.35	27.30	-0.25	26.30	-0.33	4A	OES
COMLAB	3.41	1.23	4.49	0.58	8.13	-0.41	2.09	0.84	27.69	0.19	26.73	0.09	FUS,GRAV	IR
COMLAB	3.29	0.22	4.36	-0.31	7.74	-1.70	1.97	-0.29	23.68	-3.00	24.24	-2.29	4A	OES
COMLAB	3.31	0.35	4.44	0.25	8.50	0.80	2.02	0.19	27.83	0.35	27.31	0.64	3A	MS
COMLAB	3.33	0.53	4.39	-0.10	8.15	-0.34	1.99	-0.13	27.00	-0.59	26.50	-0.13	FUS,CSA	IR
COMLAB	3.30	0.27	4.28	-0.85	8.33	0.25	1.85	-1.50	26.68	-0.96	25.38	-1.20	CSA	IR
COMLAB	3.40	1.14	4.55	0.99	8.71	1.51	2.12	1.13	28.17	0.74	27.46	0.78	4A	OES
COMLAB	3.42	1.32	4.68	1.88	8.87	2.03	2.06	0.55	27.21	-0.35	27.09	0.43	4A	OES
COMLAB	3.23	-0.35	4.38	-0.17	7.79	-1.53	1.97	-0.33	27.10	-0.48	25.94	-0.67	4A	OES
COMLAB	3.18	-0.79	4.25	-1.06	8.01	-0.80	1.96	-0.43	27.20	-0.36	26.40	-0.23	CSA	IR
COMLAB	3.47	1.76	4.60	1.33	8.44	0.61	2.18	1.72	26.60	-1.05	26.30	-0.33	CSA	IR
COMLAB	3.18	-0.77	4.35	-0.37	8.26	0.03	2.25	2.38	28.31	0.90	27.93	1.23	3A	OES
COMLAB	3.49	1.93	4.49	0.58	8.13	-0.41	2.14	1.33	27.81	0.33	25.77	-0.83	AR	GRAV
COMLAB	3.21	-0.52	4.29	-0.78	6.57	-3.00	1.86	-1.40	18.29	-3.00	25.44	-1.15	CSA	IR
COMLAB	1.04	-3.00	2.20	-3.00	6.62	-3.00	0.77	-3.00	28.47	1.08	27.48	0.80	CSA	IR
COMLAB	2.69	-3.00	4.04	-2.49	6.60	-3.00	1.67	-3.00	20.54	-3.00	22.19	-3.00	CSA	IR
COMLAB	3.21	-0.52	4.25	-1.06	7.92	-1.10	1.96	-0.43	26.20	-1.50	26.80	0.15	CSA	IR
COMLAB	3.29	0.18	4.62	1.47	7.92	-1.10	2.13	1.23	27.28	-0.27	26.36	-0.27	CSA	IR
COMLAB	3.51	2.11	4.60	1.33	8.86	2.00	1.97	-0.33	28.64	1.27	27.76	1.07	FUS,CSA	IR
COMLAB	4.15	3.00	5.24	3.00	7.99	-0.87	2.49	3.00	27.40	-0.14	25.20	-1.38	CSA	IR
COMLAB	3.46	1.67	4.88	3.00	8.72	1.54	2.08	0.74	30.50	3.00	28.90	2.16	4A	OES
COMLAB	3.46	1.67	4.34	-0.44	8.29	0.12	2.33	3.00	27.00	-0.59	27.50	0.82	4A	OES
COMLAB	3.09	-1.58	4.05	-2.42	7.81	-1.46	1.88	-1.21	29.20	1.91	27.90	1.20	CSA	IR
COMLAB	3.28	0.09	4.34	-0.44	8.40	0.48	1.87	-1.31	27.60	0.09	27.40	0.73	CSA	IR
COMLAB	3.15	-1.05	4.34	-0.44	8.18	-0.24	1.98	-0.23	27.85	0.38	27.39	0.72	AR	ES
COMLAB	3.27	0.00	4.43	0.17	8.30	0.15	2.04	0.35	27.87	0.40	27.43	0.75	3A	OES
COMLAB	3.30	0.27	4.30	-0.71	8.66	1.34	2.02	0.16	28.53	1.15	26.16	-0.46	CSA	IR
COMLAB	3.34	0.62	4.53	0.86	8.56	1.01	2.03	0.26	28.47	1.08	27.95	1.25	3A	ES
COMLAB	3.25	-0.17	4.51	0.72	8.25	-0.01	2.09	0.84	27.36	-0.18	27.03	0.37	3A	OES
COMLAB	3.36	0.79	4.45	0.31	8.31	0.19	2.02	0.16	27.75	0.26	27.75	0.83	3A	OES
COMLAB	3.39	1.03	4.44	0.24	7.96	-0.98	1.95	-0.50	26.81	-0.81	26.13	-0.49	CSA	IR
MINELAB	3.43	1.41	4.73	2.20	9.00	2.45	2.04	0.37	29.43	2.17	29.05	2.30	CSA	IR
MINELAB	3.08	-1.66	4.42	0.10	8.16	-0.31	1.98	-0.23	27.31	-0.24	26.68	0.04	CSA,TIT	IR
MINELAB	3.17	-0.87	4.34	-0.44	8.24	-0.05	1.98	-0.23	27.10	-0.48	26.90	0.25	CSA	IR
MINELAB	3.26	-0.07	4.42	0.08	8.23	-0.07	2.01	0.09	28.07	0.63	27.06	0.40	GRAV	IR
MINELAB	3.10	-1.49	4.60	1.33	8.50	0.81	1.90	-1.01	26.70	-0.93	25.70	-0.90	CSA	IR
MINELAB	3.38	0.97	4.42	0.10	8.42	0.55	2.09	0.84	27.50	-0.02	26.15	-0.47	FUS,CSA	IR
MINELAB	3.30	0.27	8.05	3.00	1.99	-3.00	1.97	-0.33	26.27	-1.42	25.89	-0.72	FUS	XRF
MINELAB	3.63	3.00	4.56	1.06	8.93	2.23	2.06	0.55	27.70	0.20	26.10	-0.52	CSA	IR
MINELAB	3.13	-1.24	4.30	-0.71	7.86	-1.31	2.03	0.28	24.55	-3.00	24.22	-2.31	AR	OES
MINELAB	3.17	-0.91	4.54	0.90	8.22	-0.10	1.74	-2.56	27.28	-0.27	27.60	0.91	CSA	IR
MINELAB	3.41	1.23	4.58	1.20	8.52	0.88	2.18	1.72	27.88	0.41	27.21	0.54	CSA	IR
MINELAB	3.20	-0.61	4.40	-0.03	8.30	0.15	2.10	0.94	28.20	0.77	27.30	0.63	CSA	IR
MINELAB	3.10	-1.49	4.27	-0.92	8.40	0.48	1.92	-0.82	28.54	1.16	28.07	1.37	4A,CSA	IR
MINELAB	3.21	-0.52	4.29	-0.78	7.97	-0.94	1.99	-0.13	28.20	0.77	26.30	-0.33	GRAV	IR
MINELAB	3.12	-1.31	3.96	-3.00	7.18	-3.00	1.81	-1.89	25.40	-2.41	24.20	-2.33	FUS	XRF

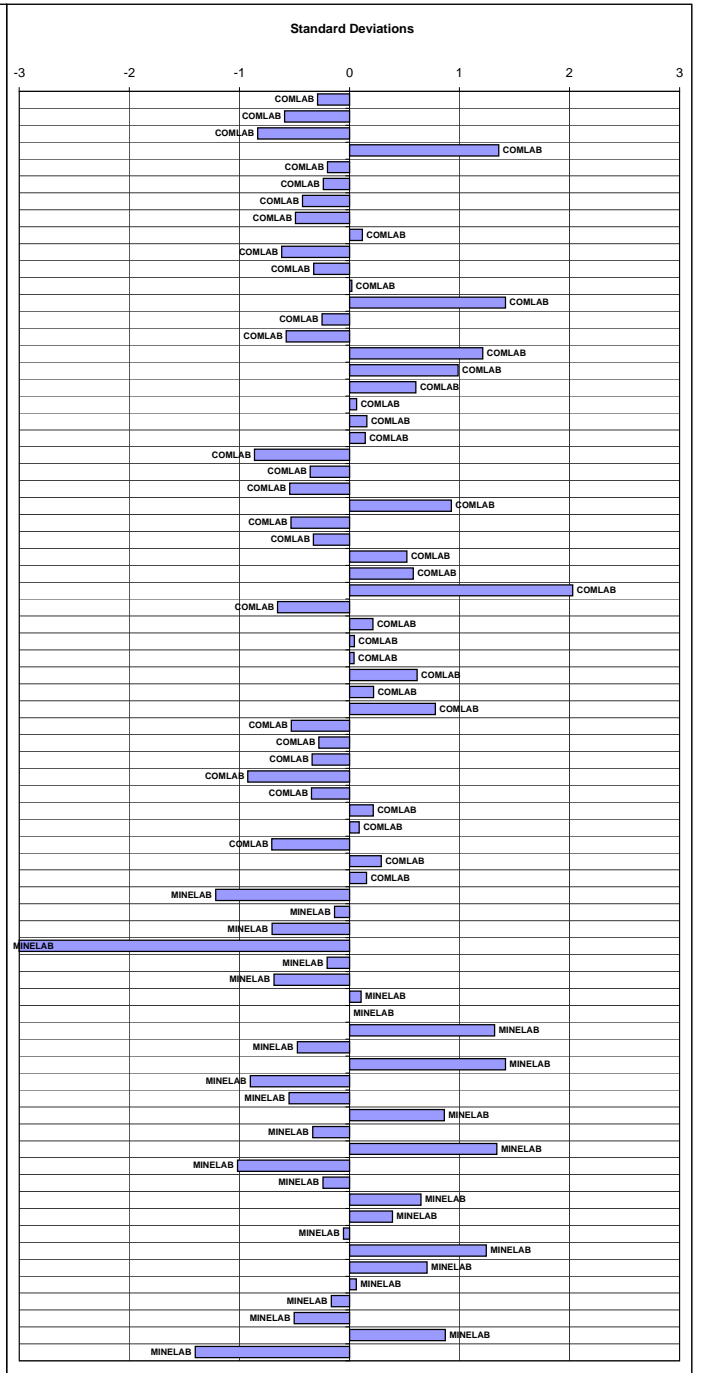
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values



Sulphur Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GS311-1	GS311-2	GS311-3	GS311-4	GS311-5	GS311-6	GS311-7	GS311-8	GS311-9	GS311-10
MEAN (%)	2.32	2.88	1.11	0.54	0.07	3.30	4.43	8.24	1.98	27.78
STDEV (%)	0.11	0.15	0.05	0.05	0.02	0.19	0.16	0.34	0.12	1.26
95% CI (%)	0.03	0.04	0.01	0.01	0.00	0.04	0.04	0.08	0.03	0.30
95% CI (rel %)	1.11%	1.25%	1.09%	2.25%	6.04%	1.33%	0.88%	0.99%	1.44%	1.09%
MIN (%)	2.06	2.48	1.00	0.42	0.03	2.85	4.06	7.42	1.67	24.34
MEDIAN (%)	2.30	2.88	1.11	0.53	0.07	3.29	4.44	8.21	1.98	27.70
MAX (%)	2.56	3.29	1.24	0.67	0.11	3.82	4.83	9.16	2.28	30.92
IQR (%)	0.14	0.19	0.06	0.05	0.02	0.22	0.18	0.44	0.11	1.27
COUNT	66	71	67	68	64	70	65	64	70	67

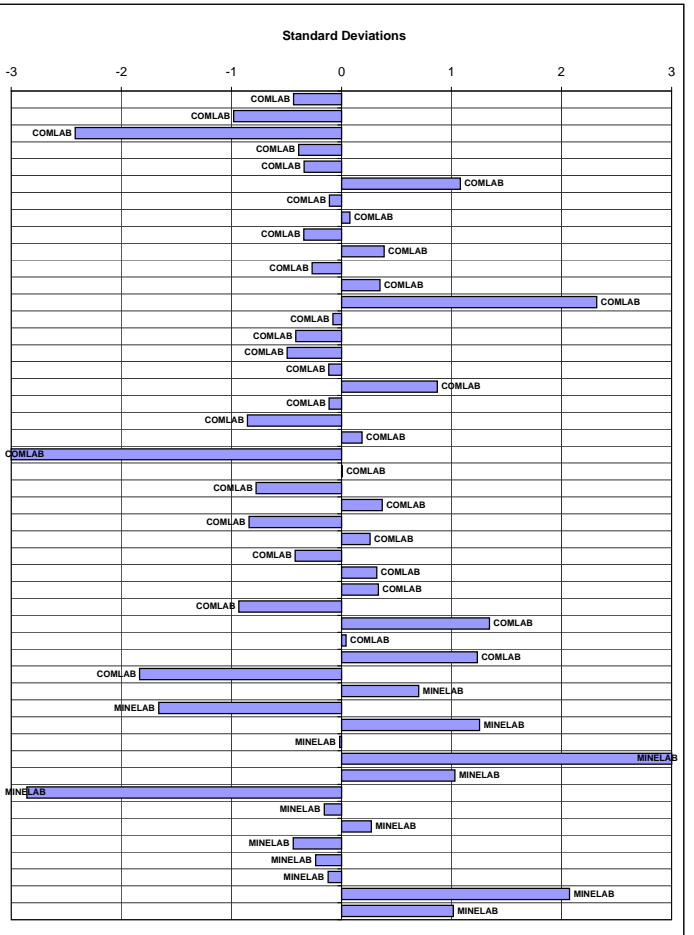
Standard Reference	GS311-1		GS311-2		GS311-3		GS311-4		GS311-5		GS311-6		GS311-7		GS311-8		GS311-9		GS311-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	2.28	-0.41	2.80	-0.51	1.04	-1.43	0.55	0.29	0.06	-0.56	3.22	-0.44	4.44	0.07	8.07	-0.51	1.96	-0.18	28.76	-0.78	CSA	IR
COMLAB	2.27	-0.50	2.84	-0.25	1.11	-0.04	0.52	-0.31	0.07	0.03	3.09	-1.14	4.26	-1.06	7.90	-1.01	1.94	-0.35	26.20	-1.25	CSA	IR
COMLAB	2.29	-0.31	2.76	-0.77	1.10	-0.24	0.51	-0.51	0.01	-3.00	3.08	-1.19	4.22	-1.31	7.71	-1.58	1.94	-0.35	28.93	0.92	CSA	IR
COMLAB	2.53	1.94	3.12	1.57	1.21	1.94	0.58	0.88	0.09	1.20	3.61	1.66	4.72	1.83	8.83	1.76	2.16	1.48	26.90	-0.70	CSA	IR
COMLAB	2.30	-0.22	2.78	-0.64	1.10	-0.24	0.54	0.09	0.06	-0.56	3.30	-0.01	4.46	0.19	8.25	0.03	1.94	-0.35	27.40	-0.30	CSA	IR
COMLAB	2.30	-0.22	2.84	-0.25	1.13	0.36	0.55	0.29	0.06	-0.56	3.24	-0.33	4.35	-0.50	8.17	-0.21	1.95	-0.26	26.90	-0.70	CSA	IR
COMLAB	2.29	-0.31	2.77	-0.71	1.15	0.75	0.50	-0.71	0.05	-1.15	3.27	-0.17	4.31	-0.75	8.00	-0.71	1.90	-0.68	28.00	0.18	CSA	IR
COMLAB	2.31	-0.12	2.88	0.01	1.09	-0.44	0.38	-3.00	0.07	0.03	3.27	-0.17	4.40	-0.18	8.22	-0.06	1.91	-0.59	27.30	-0.38	CSA	IR
COMLAB	2.36	0.35	2.94	0.40	1.09	-0.44	0.49	-0.91	0.06	-0.56	3.35	0.26	4.50	0.45	8.35	0.33	2.08	0.81	28.40	0.50	CSA	IR
COMLAB	2.26	-0.59	2.78	-0.64	1.08	-0.63	0.49	-0.91	0.06	-0.56	3.15	-0.82	4.31	-0.75	8.20	-0.12	1.92	-0.51	27.00	-0.62	CSA	IR
COMLAB	2.24	-0.78	2.68	-1.29	1.12	0.16	0.54	0.09	0.08	0.62	3.14	-0.87	4.35	-0.50	8.02	-0.66	1.98	-0.01	27.80	0.02	CSA	IR
COMLAB	2.37	0.44	2.94	0.40	1.07	-0.83	0.50	-0.71	0.08	0.62	3.32	0.10	4.51	0.51	8.35	0.33	1.95	-0.26	27.30	-0.38	CSA	IR
COMLAB	2.53	1.94	3.25	2.42	1.13	0.36	0.49	-0.91	0.08	0.62	3.68	2.04	4.95	-3.00	9.39	-3.00	2.19	1.72	27.78	0.00	CSA	IR
COMLAB	2.30	-0.22	2.92	0.27	1.10	-0.24	0.54	0.09	0.05	-1.15	3.41	0.58	3.84	-3.00	8.50	0.77	1.99	0.07	28.20	0.34	CSA	IR
COMLAB	2.13	-1.82	2.48	-2.60	5.01	-3.00	0.66	2.47	0.21	-3.00	3.34	0.21	3.92	-3.00	4.53	-3.00	1.86	-1.01	3.98	-3.00	FUS,GRAV	IR
COMLAB	2.47	1.38	3.21	2.16	1.13	0.36	0.46	-1.50	0.07	0.03	3.82	2.79	5.07	-3.00	9.16	2.74	2.16	1.48	27.40	-0.30	CSA	IR
COMLAB	2.45	1.19	3.44	-3.00	1.16	0.85	0.45	-1.70	0.07	0.03	3.97	-3.00	5.22	-3.00	9.52	-3.00	1.27	-3.00	28.40	0.50	CSA	IR
COMLAB	2.44	1.10	2.99	0.73	1.18	1.35	0.56	0.48	0.05	-1.15	3.51	1.12	4.59	1.01	8.48	0.72	2.06	0.65	27.80	0.02	FUS	XRF
COMLAB	2.26	-0.59	3.08	1.31	1.13	0.36	0.56	0.48	0.07	0.03	3.22	-0.44	4.68	1.58	8.70	1.37	1.93	-0.43	2.22	-3.00	CSA	IR
COMLAB	2.39	0.63	2.97	0.60	1.07	-0.83	0.53	-0.11	0.06	-0.56	3.28	-0.12	4.57	0.89	8.55	0.92	1.99	0.07	27.91	0.11	CSA	IR
COMLAB	2.37	0.44	2.89	0.07	1.11	-0.04	0.52	-0.31	0.05	-1.15	3.50	1.07	4.48	0.32	8.45	0.63	1.99	0.07	28.20	0.34	CSA	IR
COMLAB	2.30	-0.18	2.83	-0.32	1.11	0.04	0.51	-0.61	0.00	-3.00	3.30	0.01	4.23	-1.25	8.05	-0.57	1.98	-0.01	24.34	-2.73	CSA	IR
COMLAB	2.27	-0.50	2.88	0.01	1.08	-0.63	0.52	-0.31	0.06	-0.56	3.18	-0.66	4.39	-0.24	8.17	-0.21	1.97	-0.10	27.32	-0.36	CSA	IR
COMLAB	2.28	-0.41	2.80	-0.51	1.07	-0.83	0.51	-0.51	0.06	-0.56	3.24	-0.33	4.30	-0.81	8.35	0.33	1.89	-0.76	26.48	-1.03	CSA	IR
COMLAB	2.45	1.15	2.97	0.56	1.16	1.03	0.61	1.48	0.09	0.91	3.42	0.64	4.50	0.45	8.73	1.45	2.12	1.16	28.34	0.45	CSA	IR
COMLAB	2.26	-0.59	2.83	-0.32	1.09	-0.44	0.53	-0.11	0.06	-0.56	3.15	-0.82	4.33	-0.62	7.97	-0.80	1.91	-0.59	27.20	-0.46	CSA	IR
COMLAB	2.21	-1.06	2.71	-1.10	1.10	-0.24	0.16	-3.00	0.16	-3.00	3.15	-0.82	4.38	-0.31	8.81	1.70	1.94	-0.35	26.40	-1.09	CSA	IR
COMLAB	2.46	1.28	2.97	0.60	1.16	0.95	0.58	0.88	0.07	0.03	3.46	0.85	4.51	0.51	8.26	0.06	2.16	1.48	26.80	-1.41	CSA	IR
COMLAB	2.48	1.47	2.89	0.07	1.21	1.94	0.56	0.48	0.24	-3.00	3.35	0.26	4.37	-0.37	8.02	-0.66	2.02	0.32	2.65	-0.74	AR	GRAV
COMLAB	2.99	-3.00	3.18	1.96	1.31	-3.00	0.61	1.48	0.11	2.38	3.76	2.47	4.95	-3.00	9.73	-3.00	2.62	-3.00	23.16	-3.00	CSA	IR
COMLAB	2.33	0.06	2.85	-0.19	1.01	-2.02	0.33	-3.00	0.04	-1.74	3.30	-0.01	4.45	0.13	8.40	0.48	1.91	-0.59	28.20	0.34	CSA	IR
COMLAB	2.42	0.91	2.95	0.47	1.13	0.36	0.56	0.48	0.08	0.32	3.37	0.37	4.24	-1.19	8.05	-0.57	2.06	0.65	28.20	0.34	CSA	IR
COMLAB	2.28	-0.41	2.87	-0.06	1.14	0.55	0.55	0.29	0.09	1.20	3.37	0.37	4.34	-0.56	7.92	-0.95	2.00	0.15	27.60	-0.14	CSA	IR
COMLAB	2.45	1.19	2.97	0.60	1.11	-0.04	0.56	0.45	0.08	0.67	3.42	0.64	4.37	-0.37	7.54	-2.09	1.99	0.07	26.92	-0.68	CSA	IR
COMLAB	2.34	0.16	2.91	0.20	1.18	1.35	0.54	0.09	0.07	0.03	3.38	0.42	4.65	1.39	8.82	1.73	1.95	-0.26	29.09	1.05	CSA,FUS	IR
COMLAB	2.56	2.22	3.16	1.83	0.89	-3.00	0.42	-2.24	0.04	-1.62	3.14	-0.87	4.83	2.52	9.38	-3.00	1.78	-1.67	30.30	2.01	CSA	IR
COMLAB	2.41	0.82	3.01	0.86	1.04	-1.43	0.43	-2.10	0.08	0.62	3.50	1.07	4.83	2.52	8.85	1.82	2.15	1.39	30.60	2.25	CSA	IR
COMLAB	2.16	-1.53	2.71	-1.10	1.07	-0.83	0.52	-0.31	0.07	0.03	3.10	-1.09	4.27	-1.00	8.12	-0.36	1.82	-1.34	30.62	2.26	CSA	IR
COMLAB	2.32	-0.03	2.89	0.07	1.09	-0.44	0.52	-0.25	0.08	0.38	3.17	-0.71	4.30	-0.81	8.23	-0.03	1.97	-0.10	26.70	-0.86	CSA	IR
COMLAB	2.12	-1.91	2.75	-0.84	1.14	0.55	0.54	0.13	0.09	1.38	3.28	-0.12	4.66	1.45	7.77	-1.40	1.72	-2.17	27.20	-0.46	CSA,FUS	IR
COMLAB	2.14	-1.72	2.74	-0.90	1.02	-1.82	0.50	-0.71	0.07	0.03	3.10	-1.09	4.06	-2.32	7.83	-1.22	1.86	-1.01	29.70	1.53	CSA	IR
COMLAB	2.23	-0.88	2.72	-1.03	1.10	-0.24	0.56	0.48	0.08	0.62	3.12	-0.98	4.38	-0.31	8.17	-0.21	1.92	-0.51	27.30	-0.38	CSA	IR
COMLAB	2.35	0.25	2.98	0.66	1.16	0.95	0.50	-0.71	0.07	0.03	3.35	0.26	4.55	0.76	8.22	-0.06	1.99	0.07	27.73	-0.04	CSA	IR
COMLAB	2.31	-0.12	2.86	-0.12	1.11	-0.04	0.52	-0.31	0.06	-0.56	3.36	0.31	4.40	-0.18	8.58	1.01	2.01	0.23	28.60	0.66	CSA	IR
COMLAB	2.37	0.44	2.94	0.40	1.14	0.55	0.57	0.68	0.07	0.03	2.52	-3.00	4.47	0.26	7.51	-2.17	1.45	-3.00	26.21	-1.25	AR	OES
COMLAB	2.23																					



Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2011

Standard Reference	GS311-1	GS311-2	GS311-3	GS311-4	GS311-5	GS311-6	GS311-7	GS311-8	GS311-9	GS311-10
MEAN (%)	1.01	0.85	1.02	1.11	0.23	0.06	0.53	2.64	0.22	0.32
STDEV (%)	0.06	0.04	0.06	0.05	0.02	0.01	0.04	0.10	0.02	0.04
95% CI (%)	0.02	0.01	0.02	0.02	0.01	0.00	0.01	0.03	0.01	0.01
95% CI (rel %)	1.61%	1.52%	1.60%	1.37%	2.78%	5.55%	1.95%	1.20%	2.69%	3.32%
MIN (%)	0.88	0.76	0.92	1.02	0.19	0.04	0.45	2.43	0.18	0.24
MEDIAN (%)	1.01	0.85	1.01	1.11	0.23	0.05	0.53	2.64	0.22	0.33
MAX (%)	1.15	0.94	1.16	1.24	0.28	0.08	0.61	2.90	0.27	0.40
IQR (%)	0.05	0.05	0.07	0.06	0.03	0.02	0.04	0.11	0.02	0.05
COUNT	45	44	46	44	42	41	45	41	43	44

Standard Reference	GS311-1		GS311-2		GS311-3		GS311-4		GS311-5		GS311-6		GS311-7		GS311-8		GS311-9		GS311-10		Method	Reading
	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	0.99	-0.40	0.85	0.00	0.98	-0.64	1.10	-0.13	0.22	-0.51	0.05	-0.74	0.52	-0.39	2.66	0.23	0.20	-1.08	0.30	-0.68	CSA	IR
COMLAB	0.94	-1.31	0.77	-1.85	0.95	-1.18	1.06	-0.92	0.20	-1.46	0.06	0.23	0.47	-1.81	2.59	-0.46	0.22	-0.06	0.29	-0.96	CSA	IR
COMLAB	0.83	-3.00	0.57	-3.00	0.92	-1.72	1.07	-0.72	0.10	-3.00	0.05	-0.74	0.23	-3.00	2.22	-3.00	0.12	-3.00	0.18	-3.00	CSA	IR
COMLAB	0.98	-0.58	0.82	-0.69	0.99	-0.46	1.08	-0.53	0.22	-0.51	0.06	0.23	0.52	-0.39	2.61	-0.26	0.21	-0.57	0.32	-0.13	CSA	IR
COMLAB	1.01	-0.04	0.85	0.00	1.01	-0.10	1.12	0.26	0.21	-0.99	0.05	-0.74	0.52	-0.39	2.70	0.62	0.20	-1.08	0.29	-0.96	CSA	IR
COMLAB	1.08	1.24	0.90	1.16	1.07	0.98	1.18	1.45	0.25	0.92	0.07	1.20	0.59	1.59	2.65	0.13	0.26	1.97	0.33	0.15	CSA	IR
COMLAB	1.01	-0.04	0.84	-0.23	1.03	0.26	1.11	0.07	0.23	-0.03	0.06	0.23	0.53	-0.11	2.58	-0.55	0.21	-0.57	0.32	-0.13	CSA	IR
COMLAB	1.02	0.15	0.85	0.00	1.04	0.44	1.14	0.66	0.23	-0.03	0.06	0.23	0.54	0.18	2.62	-0.16	0.21	-0.57	0.32	-0.13	CSA	IR
COMLAB	1.01	-0.04	0.84	-0.23	1.01	-0.10	1.13	0.46	0.21	-0.99	0.05	-0.74	0.51	-0.67	2.65	0.13	0.21	-0.57	0.30	-0.68	CSA	IR
COMLAB	1.04	0.51	0.87	0.47	1.05	0.62	1.14	0.66	0.23	-0.03	0.06	0.23	0.57	1.03	2.67	0.33	0.22	-0.06	0.33	0.15	CSA	IR
COMLAB	0.96	-0.95	0.84	-0.23	1.02	0.08	1.12	0.26	0.25	0.92	0.05	-0.74	0.50	-0.96	2.26	-3.00	0.24	0.95	0.36	0.98	CSA	IR
COMLAB	0.99	-0.40	0.86	0.24	0.98	-0.64	1.07	-0.72	0.30	3.00	0.05	-0.74	0.57	1.03	2.67	0.33	0.23	0.45	0.36	0.98	CSA	IR
COMLAB	1.11	1.78	0.93	1.86	1.10	1.52	1.15	0.86	0.34	3.00	0.14	3.00	0.61	2.16	3.31	3.00	0.36	3.00	0.44	3.00	CSA	IR
COMLAB	0.96	-0.95	0.81	-0.92	0.96	-1.00	1.02	-1.71	0.23	-0.03	0.08	2.16	0.53	-0.11	2.70	0.62	0.23	0.45	0.35	0.71	CSA	IR
COMLAB	0.99	-0.40	0.84	-0.23	0.99	-0.46	1.09	-0.33	0.22	-0.51	0.07	1.20	0.53	-0.11	2.62	-0.16	0.20	-1.08	0.25	-2.07	CSA	IR
COMLAB	1.00	-0.22	0.82	-0.69	1.00	-0.28	1.08	-0.53	0.23	-0.03	0.07	1.20	0.50	-0.96	2.30	-3.00	0.21	-0.57	0.33	0.15	CSA	IR
COMLAB	1.01	-0.04	0.85	0.00	1.01	-0.10	1.12	0.26	0.22	-0.51	0.05	-0.74	0.52	-0.39	2.72	0.81	0.22	-0.06	0.31	-0.40	CSA	IR
COMLAB	1.05	0.69	0.91	1.40	1.05	0.62	1.15	0.86	0.24	0.44	0.07	1.20	0.56	0.74	2.72	0.81	0.24	0.95	0.36	0.98	CSA	IR
COMLAB	1.01	-0.04	0.81	-0.92	0.95	-1.18	1.12	0.26	0.23	-0.03	0.05	-0.74	0.52	-0.39	2.63	-0.07	0.23	0.45	0.38	1.54	CSA	IR
COMLAB	0.99	-0.40	0.80	-1.16	0.94	-1.36	1.02	-1.71	0.22	-0.51	0.05	-0.74	0.48	-1.52	2.44	-1.92	0.25	1.46	0.30	-0.68	CSA	IR
COMLAB	1.03	0.33	0.85	0.03	1.01	-0.10	1.08	-0.53	0.25	1.11	0.07	1.00	0.50	-0.93	2.60	-0.36	0.23	0.19	0.37	1.12	CSA	IR
COMLAB	0.06	-3.00	0.07	-3.00	0.06	-3.00	0.06	-3.00	0.01	-3.00	<-0.01	-3.00	0.04	-3.00	0.20	-3.00	0.01	-3.00	0.03	-3.00	CSA	IR
COMLAB	1.01	-0.04	0.84	-0.23	1.00	-0.28	1.11	0.07	0.24	0.44	0.07	0.91	0.54	0.18	2.55	-0.85	0.21	-0.57	0.34	0.43	CSA	IR
COMLAB	0.95	-1.13	0.80	-1.16	0.96	-1.00	1.06	-0.92	0.22	-0.51	0.07	1.20	0.49	-1.24	2.43	-2.02	0.21	-0.57	0.31	-0.40	CSA	IR
COMLAB	1.05	0.69	0.87	0.47	1.03	0.26	1.12	0.26	0.23	-0.03	0.05	-0.74	0.56	0.74	2.78	1.40	0.22	-0.06	0.35	0.71	CSA/FUS	IR
COMLAB	0.96	-0.95	0.79	-1.46	0.95	-1.20	1.09	-0.33	0.21	-1.04	0.06	-0.06	0.52	-0.45	2.55	-0.85	0.20	-1.13	0.29	-0.93	CSA	IR
COMLAB	1.02	0.15	0.86	0.24	1.03	0.26	1.09	-0.33	0.23	-0.03	0.07	1.20	0.53	-0.11	2.65	0.13	0.24	0.95	0.33	0.15	CSA	IR
COMLAB	1.00	-0.22	0.84	-0.23	1.00	-0.28	1.10	-0.13	0.22	-0.51	0.05	-0.74	0.52	-0.39	2.62	-0.16	0.21	-0.57	0.29	-0.96	CSA	IR
COMLAB	1.06	0.87	0.88	0.77	1.04	0.44	1.14	0.66	0.22	-0.37	0.05	-0.35	0.53	-0.11	2.80	1.60	0.21	-0.37	0.33	0.07	CSA	IR
COMLAB	1.02	0.15	0.87	0.47	1.03	0.26	1.15	0.86	0.24	0.44	0.06	0.23	0.56	0.74	2.57	-0.65	0.23	0.45	0.34	0.43	CSA	IR
COMLAB	1.00	-0.22	0.85	0.00	0.98	-0.64	1.08	-0.53	0.19	-1.94	<-0.01	-3.00	0.51	-0.67	2.66	0.23	0.19	-1.58	0.29	-0.96	CSA	IR
COMLAB	1.13	2.14	0.92	1.63	1.13	2.06	1.24	2.63	0.28	2.35	0.04	-1.71	0.57	1.03	2.99	-3.00	0.23	0.45	0.32	-0.13	CSA	IR
COMLAB	0.97	-0.76	0.85	0.00	0.98	-0.64	1.07	-0.72	0.25	0.92	0.08	2.16	0.55	0.46	2.63	-0.07	0.20	-1.08	0.33	0.15	CSA	IR
COMLAB	1.15	2.51	0.89	0.93	1.16	2.60	1.26	3.00	0.25	0.92	0.05	-0.74	0.55	0.46	2.90	2.57	0.22	-0.06	0.33	0.15	CSA	IR
COMLAB	0.94	-1.25	0.78	-1.69	0.97	-0.76	1.03	-1.51	0.16	-3.00	0.05	-0.64	0.45	-2.29	2.44	-1.92	0.15	-3.00	0.24	-2.26	CSA	IR
MINELAB	1.05	0.75	0.88	0.78	1.06	0.78	1.16	1.08	0.26	1.37	0.05	-0.40	0.56	0.63	2.74	1.00	0.24	0.78	0.33	0.26	CSA	IR
MINELAB	0.93	-1.49	0.76	-2.08	0.92	-1.72	1.02	-1.71	0.19	-1.94	0.04	-1.71	0.46	-2.09	2.64	0.03	0.18	-2.09	0.26	-1.79	CSA	IR
MINELAB	1.07	0.96	0.93	1.86	1.08	1.07	1.20	1.75	0.26	1.16	0.08	1.68	0.56	0.74	2.70	0.62	0.25	1.46	0.37	1.26	CSA	IR
MINELAB	0.92	-1.67	0.81	-0.92	0.93	-1.54	1.02	-1.71	0.26	1.40	0.06	0.23	0.53	-0.11	2.78	1.40	0.24	0.95	0.39	1.81	CSA	IR
MINELAB	3.43	-3.00	3.38	3.00	3.38	3.00	3.88	3.00	0.74	3.00	0.22	3.00	1.97	3.00	8.57	3.00	0.78	3.00	1.21	3.00	CSA	IR
MINELAB	1.08	1.24	0.90	1.16	1.11	1.70	1.21	2.04	0.25	0.92	0.05	-0.74	0.53	-0.11	3.60	3.00	0.24	0.95	0.33	0.15	CSA	IR
MINELAB	0.70	-3.00	0.44	-3.00	0.72	-3.00	0.80	-3.00	<-0.05	-3.00	<-0.05	bid	0.13	-3.00	2.46	-1.73	<-0.05	-3.00	<-0.05	-3.00	CSA	IR
MINELAB	1.00	-0.16	0.83	-0.51	1.05	0.68	1.16	1.00	0.20	-1.66	0.05	-0.45	0.55	0.32	2.67	0.34	0.20	-1.03	0.32	-0.10	CSA	IR
MINELAB	1.04	0.49	0.86	0.26	1.02	0.06	1.09	-0.31	0.24	0.54	0.06	0.32	0.57	0.88	2.47	-1.59	0.23	0.34	0.39	1.70	CSA	IR
MINELAB	0.99	-0.40	0.85	0.00	1.00	-0.28	1.05	-1.12	0.22	-0.51	0.04	-1.71	0.54	0.18	2.55							



BECQUEREL CANADA - NEUTRON ACTIVATION ANALYSIS REPORT

NAA Results - Gold and Base Metals

		G311-1	G311-2	G311-3	G311-4	G311-5	G311-6	G311-7	G311-8	G311-9	G311-10	GLG311-1	GLG311-2	GLG311-3	GLG311-4	GLG311-5	GBM311-1	GBM311-2	GBM311-3	GBM311-4	GBM311-5	GBM311-6	GBM311-7	GBM311-8	GBM311-9	GBM311-10	GBM311-11	GBM311-12	GBM311-13	GBM311-14	GBM311-15	GBM311-16
Sb	ppm	1.39	<0.1	0.0897	<0.1	<0.1	1.51	0.0593	0.758	39.1	27.4	3.44	29.3	0.0678	<0.1	<0.0629	13.8	26.7	37.4	38.4	14.9	16	12.6	1.94	0.192	8.86	462	35.3	1.33	9.09	63.6	4
As	ppm	0.93	0.581	0.275	0.254	0.406	0.695	0.306	<0.195	262	760	1.27	79.2	0.593	<0.217	0.618	390	750	380	260	1150	1520	830	57	2.66	40.6	1340	364	232	42.3	798	67.9
Ba	ppm	457	428	440	544	545	338	454	280	177	254	173	3740	1450	1400	66.8	139	236	282	152	240	446	390	56.1	324	261	192	272	66	270	208	<132
Br	ppm	0.559	0.72	0.568	0.716	0.744	0.457	0.776	0.427	1.41	1.96	0.421	0.905	0.607	0.526	0.396	1.2	<0.629	0.716	0.766	0.96	<0.68	<0.526	1.14	0.552	<0.369	<1.34	<0.744	1.73	1.43	<1.14	<1.07
Cd	ppm	<5	<5	<5	<5	<5	<5	<5	<5	51.9	<5	<5	<5	<5	<5	<5	<5	<5	48	45	<5	<5	<5	7	<5	82	67.6	41.5	<10.1	75.8	34.5	63
Ce	ppm	44.9	34.7	37.6	39.3	45.7	32.9	40.7	29.9	33.5	40.4	22	162	131	130	12.7	22.9	33.1	36.7	27.4	22.8	34.7	50.5	15.1	38	41.1	41.1	45	<8.08	40.6	39.4	<2.17
Cs	ppm	2.57	2.51	2.55	3.5	3.62	1.93	2.74	1.24	4.05	6.7	<1	2.27	0.883	0.907	32.1	11	6.69	7.41	4.17	10.6	9.49	5.45	0.979	2.08	2.33	0.74	7.62	2.01	2.14	<1	3.79
Cr	ppm	87.8	117	77.5	76.2	81.6	104	104	122	211	391	183	49.2	116	112	100	146	437	483	201	331	205	160	38300	2190	83.9	80.3	560	1130	115	79.9	293
Co	ppm	22.6	26	22.1	16.7	18.3	26.9	24.4	34.7	96.8	60.7	40.3	11.9	26.9	26.5	23.1	38.2	66	133	95	39	41	33	190	43.6	74.2	70.7	135	629	79.1	782	3020
Eu	ppm	0.976	1.17	1.15	0.93	0.932	1.17	1.26	1.36	0.557	1.08	1.6	1.78	2.02	1.61	0.646	<1	1.01	0.831	<1	0.67	<1	0.722	<1	<1	0.874	<2	0.93	<1	0.612	<1	<1
Au	ppb	540	5400	260	1500	1450	230	425	1580	9800	7350	<2	75.8	50.7	25	3	5470	7390	5200	9870	3490	6460	3790	1590	80.5	1860	1170	5040	82	2210	22700	87.3
Hf	ppm	4.12	3.74	3.98	3.92	3.88	3.95	3.99	4.93	3.77	3.19	3.88	7.31	7.11	7.15	1.85	2.570	3.63	4.79	3.91	2.87	2.65	3.2	<0.82	3.24	3.84	2.14	5.33	<1.06	3.64	<1.04	<0.646
Ir	ppb	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	94	<20	<20	<20	<20	49.9	<20	<20	126
Fe	%	5.93	5.51	4.76	3.75	3.98	6.41	5.24	7.69	10.6	12.5	9.66	3.36	5.94	5.95	4.45	7.33	14.4	14.1	10.3	8.65	6.51	6.37	9.43	5.7	6.95	7.65	16	15.4	7.33	25.2	30.6
La	ppm	21.8	19.8	21.3	22.2	24.4	16.2	21.3	15.9	13.5	15.8	9.64	83.3	69	67.8	5.47	10.4	17.4	20.2	13.3	14.2	20.9	24	3.55	20.6	20	21.2	21.9	0.987	21.4	27	2.67
Mo	ppm	8.63	18.8	7.01	14.2	9.55	3.36	19.2	20.5	11.9	423	<2	1.65	<2	<2	<2	8.81	484	20	13.1	7.15	62.7	13.1	3.75	<2	23	27.7	19	<2	24.2	577	<4.46
Ni	ppm	25.5	24.2	25.4	20.7	21.2	24.8	26.3	32	241	399	35.5	29.4	27.6	24.9	23.4	204	385	655	240	302	349	126	2520	328	27.7	93.7	609	26800	36.3	287	117000
Rb	ppm	113	94.6	112	138	135	78.7	109	54.7	108	133	10.6	98.6	65.3	65.6	949	200	134	146	95.5	113	115	115	12.7	86.6	86.1	83	133	<7.31	89.2	<9.24	<33.2
Sm	ppm	5.06	4.83	4.93	4.63	4.61	5.16	4.95	5.3	2.97	4.28	5.06	10.6	10.7	10.4	2.87	2.63	4.29	3.58	2.87	3.67	4.74	4.16	0.674	4.19	4.61	4.24	3.6	0.786	4.7	2.85	0.429
Sc	ppm	19.3	21.4	17.7	13.6	14.6	21.8	20.3	29.8	14.4	19.1	33.9	9.31	22	22	18.7	17.6	21.2	12.8	13.2	21.1	13.7	18.6	11.6	17.9	19.1	22.4	15.4	15.2	20.8	3.73	2.16
Se	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	47.7	<5	<5	<5	<5	<5	<5	60.9	6.26	<5	<5	5.9	<5	<5	<5	6.41	24.1	4.83	11.5	6.14	104	7.99
Ag	ppm	3	8.89	<2	10.9	9	2	6.32	7.63	13.5	14	<2	3	<2	<2	<2	5	9	20	16	3	2	2	1	0.5	4	17.9	19.5	<2	3	81	14
Na	%	2.51	2.48	2.23	2.51	2.61	2.17	2.6	2.24	0.892	1.1	2.18	1.89	2.43	2.38	1.63	0.645	1.22	0.95	0.82	0.815	0.704	1.57	0.319	1.96	1.98	2.26	0.993	0.612	2.13	<0.231	0.0927
Ta	ppm	1.44	1.36	1.56	1.8	1.75	1.14	1.53	2.04	1.62	1.23	0.469	1.02	1.06	0.998	0.39	0.926	1.08	1.19	1.44	0.572	1.71	1.45	0.22	1.28	1.36	0.815	1.29	<0.118	1.27	0.248	<1.04
Te	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tb	ppm	0.973	1.01	0.994	0.882	0.887	1.08	0.983	1.19	0.587	0.812	1.19	1.23	1.68	1.62	0.686	0.422	0.714	0.293	0.495	0.638	0.507	0.443	<0.0927	0.675	0.809	0.688	0.655	0.19	0.815	0.336	<0.934
Th	ppm	16.4	13.1	15.8	18.8	18.8	11	15.1	7.4	8.16	4.97	1.32	28.2	24.1	23.2	0.832	3.92	5.2	13	7.39	4.55	6.45	11.1	0.336	13.1	11.9	10.3	12.8	0.281	12.4	4.57	0.928
Sn	ppm	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<122	<100	<100	<100	<100	<100	<100	<100	<100	<200	<125	<100	<100	<124	<500
U	ppm	<2	<2	<2	<2	<2	<2	<2	2.2	9.08	37.1	1.64	2.31	<2	1.54	<2	1.12	32.3	18.9	5.23	28.2	27.9	24.7	4.26	1.51	<2.65	<4.32	18	<4.26	<2	12.4	<2
W	ppm	9.11	6.28	8.68	9.49	9.28	6.03	7.13	3.51	2.84	1.98	0.637	4.35	3.3	3.21	0.171	1.49	1.91	3.31	2.89	2.41	3.74	6.83	<0.322	6.92	7.34	5	2.73	<0.287	7.24	8.52	<0.971
Yb	ppm	2.27	2.41	2.41	1.81	2.17	2.46	2.45	2.98	<1	<1	3.22	3.12	3.94	4.09	1.91	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	0.852	<1	<1
Zn	ppm	75.1	97.2	93.8	81.3	71	81.4	88.4	129	11900	1870	120	123	124	112	61.9	670	2050	14700	12200	380	590	480	370	100	850	32500	14500	250	900	12100	27500
Zr	ppm	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400

SUMMARY REPORT OF INDIVIDUAL LABORATORY PERFORMANCE
Zarazma Minerals Studies Company

GOLD SAMPLES

10 samples were sent to the laboratory for Fire Assay analysis. The laboratory reported their Fire Assay results, and these contained no outliers.

The laboratory didn't report their results for Aqua Regia analysis.

5 samples were sent to the laboratory for Low Level Gold analysis. The laboratory reported their Low Level Gold results, and these contained no outliers.

Au & Ag IN CARBON SAMPLES

The laboratory were not sent any samples for Au & Ag in carbon analysis.

BASE METAL SAMPLES

10 Base Metal samples were sent to the laboratory for analysis.

The laboratory reported for Silver content, and these contained no outliers.

The laboratory reported for Copper content, and these contained no outliers.

The laboratory reported for Lead content, and these contained no outliers.

The laboratory reported for Zinc content, and these contained no outliers.

The laboratory reported for Nickel content, and these contained no outliers.

The laboratory reported for Arsenic content, and these contained no outliers.

The laboratory reported for Cobalt content, and these contained no outliers.

ORE GRADE BASE METAL SAMPLES

6 Ore Grade Base Metal samples were sent to the laboratory for analysis.

The laboratory reported for Copper content, and these contained no outliers.

The laboratory reported for Lead content, and these contained no outliers.

The laboratory reported for Zinc content, and these contained no outliers.

The laboratory reported for Nickel content, and these contained no outliers.

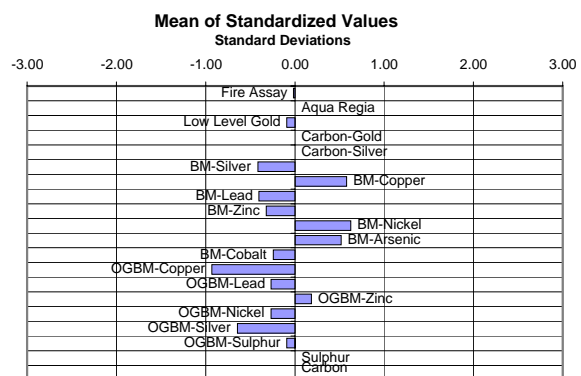
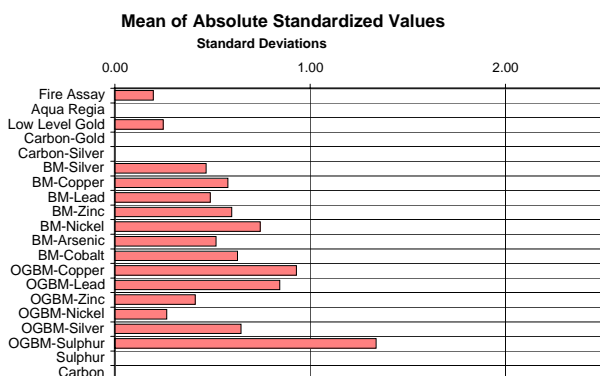
The laboratory reported for Silver content, and these contained no outliers.

The laboratory reported for Sulphur content, and these contained no outliers.

SULPHUR SAMPLES

The laboratory were not sent any Sulphur samples for analysis.

ERROR GRAPHS



FURTHER INFORMATION

The samples analysed in this survey are available for purchase. Please contact us or visit www.geostats.com.au for a complete listing of available materials.

To discuss this report, please contact us on +618 9314 2566, or srr@geostats.com.au