

# African Mineral Standards

## *Certificate of Analysis*

Uraniferous alaskite standard,  
from the Warmbad exploration area,  
Namibia

**AMIS0113**

Recommended Concentration and two "Between Laboratory"  
Standard Deviations

### *Certified Concentrations*

U (M/ICP)	456 ± 45	ppm
U (XRF)	466 ± 38	ppm
Specific Gravity	2.65 ± 0.14	g/cc
Al <sub>2</sub> O <sub>3</sub> (XRF)	8.43 ± 0.22	%
CaO (XRF)	1.25 ± 0.04	%
Fe <sub>2</sub> O <sub>3</sub> (XRF)	2.48 ± 0.14	%
K <sub>2</sub> O (XRF)	1.89 ± 0.03	%
MnO (XRF)	0.030 ± 0.002	%
Na <sub>2</sub> O (XRF)	2.32 ± 0.18	%
SiO <sub>2</sub> (XRF)	82.8 ± 1.08	%

### *Provisional Concentrations*

Cr <sub>2</sub> O <sub>3</sub> (XRF)	0.085 ± 0.008	%
MgO (XRF)	0.14 ± 0.03	%
S (M/ICP)	0.048 ± 0.012	%
TiO <sub>2</sub> (XRF)	0.035 ± 0.008	%

### *Indicated Mean*

P<sub>2</sub>O<sub>5</sub> (XRF) 0.03 %

**\*\* Or, by applying a chemical conversion factor of U x 1.1793 = U<sub>3</sub>O<sub>8</sub>**  
**U<sub>3</sub>O<sub>8</sub> by multi acid digestion: 538 ± 53 ppm**  
**U<sub>3</sub>O<sub>8</sub> by XRF: 550 ± 45 ppm**

**Intended use:** AMIS0113 is suitable for monitoring the accuracy of a single analysis of uraniferous alaskite. The material can be used for routine quality control by inserting within a batch of samples.

Additional geochemical data is presented for this material that will enable its use for method development and for the calibration of equipment.

The recommended mean and "Between Lab" standard deviations for this standard reflect the average results from the laboratories that participated in the round robin. Slight variations in analytical procedures between laboratories will reflect as slight biases to the recommended concentrations and this is acceptable. Good laboratories however will report results within the two standard deviation levels with a failure of <10 %.

**Origin of material:** This reference material has been made from assay pulp reject material supplied by Xemplar Energy, from their Warmbad Property, located in the extreme south of Namibia, bordering on South Africa. Exploration has been undertaken on fourteen uraniferous alaskite bodies identified along a linear feature some 30 kms in length. The exploration model is a Rossing type uranium occurrence.

**Mineral and chemical composition:** Uranium mineralization is hosted by alaskitic pegmatites intruded into biotite gneiss. It consists of yellow uranium oxide, probably uranophane, which both coats the surfaces of the pegmatite and occurs as disseminations within the rock. Pitchblende has been reported in phases of the pegmatite. The major element chemistry for this material has also been determined by predominantly XRF analyses from fourteen of the laboratories and has also been certified. Additional trace element chemistry for this product is available on request.

**Appearance:** The material is a very fine powder. It is coloured a Very Light Grey (Corstor 5Y 8/1).

**Radioactivity:** Shipments of this material do not require special marking, labeling or placarding. AMIS0113 does contain U (5.8 Bq/g) and Th (0.02 Bq/g), but due to low activity concentrations it is classified as EXEMPT MATERIAL in terms of "Safety Standards Series No. TS-R-1: Regulations for the Safe Transport of Radioactive Material, International Atomic Energy Agency, 2005, para 403, Table 1".

**Method of preparation:** The material was crushed, dry-milled and air-classified to 100% <54µm. Wet sieve particle size analysis of random samples confirmed the material was 100% <54µm. It was then blended in a bi-conical mixer, systematically divided and then sealed into 1kg Laboratory Packs. Samples were randomly selected for homogeneity testing and third party analysis. Statistical analysis for the consensus test results were carried out by an independent statistician. Explorer Packs are subdivided from the Laboratory packs as required.

**Methods of analysis requested:**

1. Multi-acid digest, including HF, ICP- OES or ICP-MS. Multi element scan ( to include U ).
2. U XRF.
3. Majors ( Al<sub>2</sub>O<sub>3</sub>, CaO, Cr<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O, MgO, MnO, Na<sub>2</sub>O, SiO<sub>2</sub>, TiO<sub>2</sub>. LOI. ) XRF fusion.
4. SG ( gas pycnometer ).

**Method of certification:** Eighteen laboratories were each given eight randomly selected packages of sample. Results from all eighteen laboratories were used for the certification.

The mean and standard deviation for all data was calculated. Outliers were defined as samples beyond the mean  $\pm$  2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined.

Standards with an RSD of near or less than 5 % are then certified, RSD's of between near 5 % and 15 % are given Provisional Concentrations and limits, those with RSD's over 15 % are given Indicated Concentrations.

This method is different from that used to calculate the Confidence Interval shown on many Government-produced standards in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Certified Limits published on other standards which quote a Confidence Interval.

**Participating laboratories:** (Not in same order as in the table of assays)

1. ACME Analytical Laboratories Ltd., (Canada).
2. Activation Laboratories Ltd., (ActLabs, Ancaster, ON, Canada).
3. ALS Chemex South Africa ( Pty ) Ltd.
4. ALS Chemex, (Perth, Australia).
5. ALS Chemex, (Vancouver, Canada).
6. Assayers Canada, (Vancouver).
7. Genalysis Laboratory Services ( Pty ) Ltd., (Australia).
8. Geoscience Laboratories, (Geo Labs, Sudbury, Canada).
9. Labtium Inc. ( Finland )
10. Langer Heinrich Mine Laboratory (Namibia)
11. OMAC Laboratories (Ireland).
12. Pt Intertek Utama Services (Intertek, Indonesia)
13. Set Point Laboratories ( Pty ) Ltd (South Africa)
14. SGS Lakefield Research (Canada)
15. SGS Lakefield Research Africa ( Pty ) Ltd. (Joburg, South Africa)
16. SGS Welshpool (Australia).
17. SRC Labs., (Canada).
18. Ultra Trace ( Pty ) Ltd. (Australia)

**Assay Data:** Data as received from the laboratories for the important certified elements listed on p1 is set out below. A proficiency report has been sent to the managers of the participating laboratories. Additional data from this round robin is available on request.

Lab Code	Al2O3 (XRF) %	CaO (XRF) %	Cr2O3 (XRF) %	Fe2O3 (XRF) %	K2O (XRF) %	LOI %	MgO (XRF) %	MnO (XRF) %	Na2O (XRF) %	P2O5 (XRF) %	S (XRF) %	SG ycnomet c/cc	SiO2 (XRF) %	TiO2 (XRF) %	U (M/ICP) ppm	U (XRF) ppm
A	8.58	1.26	0.09	2.60	1.93	0.40	0.13	0.03	2.35	0.04	0.03		81.84	0.03	477	
A	8.53	1.26	0.08	2.54	1.94	0.20	0.13	0.03	2.34	0.03	0.03		82.19	0.03	459	
A	8.44	1.26	0.08	2.56	1.91	0.20	0.13	0.03	2.33	0.04	0.04		82.30	0.03	478	
A	8.43	1.26	0.08	2.58	1.91	0.10	0.13	0.03	2.30	0.03	0.04		82.42	0.03	429	
A	8.43	1.25	0.08	2.52	1.90	0.40	0.13	0.03	2.35	0.04	0.04		82.09	0.03	442	
A	8.54	1.26	0.08	2.56	1.93	0.40	0.13	0.03	2.33	0.03	0.05		81.95	0.03	423	
A	8.48	1.26	0.08	2.66	1.92	0.30	0.13	0.03	2.31	0.04	0.04		82.05	0.03	417	
A	8.46	1.27	0.09	2.61	1.92	0.40	0.13	0.03	2.27	0.03	0.04		82.00	0.03	428	
B	8.29	1.23	0.08	2.53	1.67	0.26	0.06	0.04	2.24	0.03		2.71	82.65	0.03	455	432
B	8.15	1.22	0.08	2.52	1.87	1.00	0.07	0.03	2.21	0.03		2.66	81.18	0.04	460	441
B	8.22	1.21	0.08	2.54	1.68	0.32	0.07	0.04	2.22	0.03		2.69	82.07	0.04	457	441
B	8.05	1.23	0.09	2.52	1.91	0.34	0.07	0.03	2.18	0.03		2.68	81.27	0.04	452	373
B	8.36	1.23	0.09	2.58	1.91	0.34	0.08	0.04	2.24	0.03		2.67	82.48	0.04	450	449
B	8.18	1.23	0.08	2.54	1.86	0.29	0.05	0.03	2.24	0.03		2.66	82.52	0.04	450	390
B	8.34	1.22	0.08	2.55	1.87	0.33	0.06	0.03	2.24	0.03		2.61	82.04	0.04	467	466
B	8.24	1.24	0.08	2.53	1.89	0.37	0.08	0.03	2.23	0.03		2.62	81.98	0.04	465	432
C	8.51	1.24	0.08	2.36	1.89	0.24	0.01	0.02	2.36		0.05	2.53	83.10	0.02	460	470
C	8.48	1.26	0.08	2.39	1.93	0.25	0.03	0.02	2.39		0.05	2.52	83.00	0.03	460	480
C	8.53	1.26	0.08	2.37	1.90	0.30	0.02	0.02	2.38		0.05	2.52	82.90	0.03	460	530
C	8.53	1.25	0.08	2.38	1.91	0.26	0.02	0.02	2.40		0.05	2.52	83.00	0.02	460	510
C	8.49	1.26	0.08	2.38	1.91	0.38	0.02	0.02	2.39		0.05	2.53	82.90	0.02	460	530
C	8.47	1.24	0.08	2.39	1.91	0.29	0.01	0.02	2.38		0.05	2.54	83.00	0.02	460	520
C	8.48	1.23	0.08	2.35	1.88	0.22	0.02	0.02	2.38		0.05	2.54	83.10	0.03	449	540
C	8.53	1.25	0.08	2.37	1.90	0.24	0.02	0.02	2.36		0.05	2.57	83.00	0.02	460	470

**Assay Data (cont):**

Lab Code	Al2O3 (XRF) %	CaO (XRF) %	Cr2O3 (XRF) %	Fe2O3 (XRF) %	K2O (XRF) %	LOI %	MgO (XRF) %	MnO (XRF) %	Na2O (XRF) %	P2O5 (XRF) %	S (XRF) %	SG ycnomet c/cc	SiO2 (XRF) %	TiO2 (XRF) %	U (M/ICP) ppm	U (XRF) ppm
D	8.52	1.23	0.08	2.37	1.83	0.35	0.16	0.03	2.30			2.59	82.75	0.04	411	417
D	8.58	1.24	0.08	2.39	1.85	0.34	0.17	0.03	2.32			2.67	82.80	0.04	401	410
D	8.53	1.23	0.08	2.40	1.85	0.35	0.16	0.03	2.30			2.62	82.70	0.04	412	415
D	8.59	1.23	0.08	2.38	1.84	0.33	0.16	0.03	2.32			2.63	82.73	0.04	420	408
D	8.57	1.25	0.08	2.39	1.83	0.31	0.16	0.03	2.31			2.64	82.88	0.03	411	407
D	8.55	1.22	0.08	2.38	1.85	0.33	0.16	0.03	2.31			2.66	82.71	0.04	421	412
D	8.59	1.23	0.08	2.37	1.84	0.31	0.16	0.03	2.30			2.65	82.64	0.04	401	411
D	8.56	1.24	0.08	2.39	1.85	0.35	0.17	0.03	2.30			2.69	82.69	0.04	410	412
E	8.32	1.20	0.09	2.53	1.82	0.30	0.13	0.03	2.33	0.03	0.05	2.62	81.20	0.04	450	
E	8.40	1.20	0.09	2.57	1.85	0.38	0.12	0.03	2.37	0.03	0.05	2.58	82.70	0.03	480	
E	8.23	1.17	0.09	2.48	1.80	0.34	0.12	0.03	2.32	0.03	0.05	2.60	81.40	0.03	460	
E	8.51	1.20	0.09	2.55	1.87	0.31	0.12	0.03	2.40	0.02	0.05	2.58	83.10	0.04	460	
E	8.45	1.19	0.09	2.54	1.86	0.49	0.12	0.03	2.39	0.03	0.05	2.62	82.50	0.04	470	
E	8.65	1.21	0.09	2.57	1.90	0.35	0.13	0.03	2.45	0.02	0.05	2.60	82.40	0.04	449	
E	8.46	1.19	0.09	2.55	1.87	0.49	0.12	0.03	2.40	0.03	0.05	2.58	82.70	0.03	470	
E	8.47	1.17	0.09	2.52	1.88	0.38	0.12	0.03	2.42	0.03	0.05	2.61	82.70	0.03	460	
F	9.25	1.55	0.11	3.09	2.58	0.38	0.18	0.04	2.59	0.04	0.03		78.81	0.04	541	
F	9.35	1.55	0.10	3.09	2.61	0.44	0.18	0.04	2.61	0.04	0.03		78.47	0.04	504	
F	9.31	1.56	0.10	3.15	2.60	0.35	0.18	0.04	2.59	0.03	0.03		78.62	0.04	450	
F	9.06	1.51	0.11	3.06	2.53	0.33	0.18	0.04	2.53	0.03	0.03		79.24	0.04	482	
F	9.43	1.58	0.11	3.21	2.63	0.35	0.18	0.04	2.63	0.03	0.03		78.19	0.04	443	
F	9.01	1.50	0.10	3.24	2.55	0.38	0.17	0.04	2.62	0.04	0.03		78.97	0.04	473	
F	9.26	1.53	0.10	3.06	2.62	0.35	0.18	0.04	2.63	0.03	0.03		78.80	0.04	458	
F	9.13	1.50	0.10	3.04	2.57	0.33	0.17	0.04	2.56	0.04	0.03		79.17	0.04	476	
G	8.58	1.28	0.09	2.53	1.96	0.28	0.14	0.03	2.34	0.03	0.05		82.97	0.03	468	
G	8.34	1.26	0.08	2.47	1.90	0.33	0.14	0.03	2.29	0.03	0.05		83.10	0.03	464	
G	8.42	1.27	0.09	2.52	1.92	0.36	0.15	0.03	2.31	0.03	0.05		83.88	0.03	470	
G	8.42	1.26	0.09	2.49	1.92	0.34	0.14	0.03	2.29	0.03	0.05		83.69	0.03	455	
G	8.45	1.27	0.08	2.50	1.92	0.31	0.14	0.03	2.29	0.03	0.05		83.78	0.03	466	
G	8.37	1.26	0.08	2.49	1.91	0.33	0.14	0.03	2.30	0.03	0.04		83.34	0.03	463	
G	8.40	1.27	0.09	2.50	1.92	0.28	0.14	0.03	2.31	0.03	0.05		83.77	0.04	472	
G	8.33	1.25	0.08	2.45	1.90	0.26	0.14	0.03	2.28	0.03	0.05		82.95	0.03	467	
H	8.57	1.30		2.55	1.90	0.05	0.14	0.03	2.48	0.03			83.81	0.03		493
H	8.56	1.30		2.56	1.89	0.47	0.14	0.03	2.45	0.03			83.56	0.03		496
H	8.43	1.28		2.51	1.87	0.33	0.13	0.03	2.43	0.03			82.29	0.03		493
H	8.58	1.31		2.56	1.92	0.56	0.14	0.03	2.43	0.03			83.92	0.04		493
H	8.55	1.30		2.58	1.90	0.38	0.13	0.03	2.44	0.03			83.63	0.03		493
H	8.57	1.30		2.56	1.90	0.24	0.14	0.03	2.52	0.03			83.73	0.03		492
H	8.56	1.30		2.56	1.91	0.23	0.14	0.03	2.50	0.03			83.48	0.03		486
H	8.52	1.30		2.55	1.89	0.30	0.14	0.03	2.45	0.03			83.34	0.03		491
I	8.51	1.24		2.30	1.87	0.38	0.12	0.03	2.43	0.03	0.04		83.00	0.03	413	452
I	8.49	1.24		2.30	1.86	0.41	0.12	0.03	2.43	0.03	0.04		83.10	0.04	376	449
I	8.55	1.23		2.31	1.87	0.40	0.11	0.03	2.43	0.03	0.04		83.00	0.03	391	445
I	8.55	1.24		2.32	1.87	0.33	0.11	0.03	2.41	0.03	0.04		83.00	0.04	403	443
I	8.53	1.24		2.31	1.87	0.46	0.11	0.03	2.44	0.03	0.04		83.00	0.04	395	430
I	8.55	1.24		2.32	1.87	0.37	0.12	0.03	2.44	0.03	0.04		83.00	0.04	419	445
I	8.48	1.25		2.32	1.87	0.39	0.12	0.03	2.43	0.03	0.04		83.10	0.03	419	438
I	8.50	1.24		2.33	1.86	0.24	0.11	0.03	2.42	0.03	0.04		83.10	0.04	385	440
J																444
J																447
J																448
J																431
J																441
J																441
J																438
J																448
K	8.07	1.23	0.09	2.39	1.87	0.20	0.12	0.03	2.17	0.05	0.05		79.90	0.03	439	
K	8.11	1.22	0.09	2.42	1.87	0.20	0.14	0.03	2.14	0.06	0.05		79.66	0.03	439	
K	8.30	1.26	0.09	2.47	1.93	0.24	0.14	0.03	2.23	0.06	0.05		80.42	0.04	438	
K	8.17	1.23	0.09	2.45	1.91	0.20	0.13	0.03	2.19	0.05	0.05		79.36	0.03	435	
K	8.20	1.23	0.09	2.47	1.90	0.20	0.14	0.03	2.18	0.05	0.05		79.44	0.03	438	
K	8.23	1.25	0.09	2.47	1.92	0.18	0.14	0.03	2.20	0.06	0.05		80.67	0.03	435	
K	8.29	1.27	0.09	2.53	1.95	0.19	0.14	0.03	2.22	0.07	0.05		79.40	0.04	443	
K	8.18	1.24	0.09	2.43	1.91	0.22	0.14	0.03	2.19	0.06	0.05		79.87	0.04	440	
L	8.26	1.40	0.08	2.84	1.86	0.41	0.15	0.03	2.54	0.02	0.05	2.70	81.80	0.02	472	472
L	8.36	1.37	0.08	2.81	1.83	0.42	0.14	0.03	2.49	0.02	0.05	2.70	82.86	0.02	476	476
L	8.16	1.34	0.08	2.78	1.81	0.41	0.15	0.03	2.47	0.02	0.05	2.69	83.07	0.02	448	449
L	8.46	1.42	0.08	2.82	1.84	0.41	0.16	0.03	2.19	0.02	0.05	2.70	83.12	0.03	476	476
L	8.46	1.38	0.08	2.81	1.84	0.42	0.15	0.03	2.49	0.02	0.05	2.69	82.79	0.03	477	477
L	8.36	1.37	0.08	2.82	1.85	0.39	0.15	0.03	2.48	0.02	0.05	2.69	82.58	0.02	472	472
L	8.26	1.37	0.08	2.80	1.82	0.39	0.14	0.03	2.46	0.02	0.05	2.70	81.86	0.02	474	474
L	8.46	1.39	0.08	2.84	1.89	0.38	0.16	0.03	2.50	0.02	0.05	2.69	82.55	0.02	475	475
M	8.40	1.27	0.08	2.55	1.90	0.12	0.14	0.04	2.38		0.06		82.70	0.04	534	486
M	8.38	1.27	0.09	2.52	1.89	0.11	0.14	0.03	2.36		0.06		82.90	0.04	504	493
M	8.41	1.26	0.09	2.52	1.91	0.10	0.14	0.03	2.36		0.06		82.90	0.04	508	490
M	8.37	1.26	0.09	2.52	1.90	0.12	0.14	0.03	2.35		0.06		82.90	0.04	505	494
M	8.42	1.26	0.09	2.51	1.90	0.11	0.13	0.03	2.36		0.06		82.90	0.04	493	490
M	8.41	1.26	0.09	2.51	1.90	0.16	0.14	0.03	2.35		0.06		82.90	0.03	500	491
M	8.41	1.27	0.09	2.51	1.90	0.19	0.13	0.03	2.35		0.06		82.80	0.04	510	487
M	8.37	1.26	0.09	2.52	1.90	0.17	0.13	0.03	2.38		0.06		82.90	0.04	515	488

**Assay Data (cont):**

Lab Code	Al2O3 (XRF) %	CaO (XRF) %	Cr2O3 (XRF) %	Fe2O3 (XRF) %	K2O (XRF) %	LOI %	MgO (XRF) %	MnO (XRF) %	Na2O (XRF) %	P2O5 (XRF) %	S (XRF) %	SG ycnomet c/cc	SiO2 (XRF) %	TiO2 (XRF) %	U (M/ICP) ppm	U (XRF) ppm
N	8.41	1.24	0.09	2.50	1.88	0.38	0.20	0.03	2.15	0.03		2.63	82.80	0.05		470
N	8.53	1.26	0.09	2.54	1.89	0.42	0.17	0.04	2.27	0.03		2.59	83.80	0.05		470
N	8.53	1.26	0.09	2.53	1.87	0.50	0.17	0.04	2.32	0.04		2.61	83.50	0.04		470
N	8.48	1.25	0.09	2.54	1.89	0.50	0.19	0.04	2.18	0.04		2.58	83.10	0.05		470
N	8.54	1.26	0.09	2.51	1.81	0.49	0.18	0.03	2.16	0.03		2.57	83.50	0.04		470
N	8.41	1.24	0.08	2.43	1.84	0.51	0.21	0.04	2.23	0.04		2.61	83.10	0.05		470
N	8.47	1.26	0.09	2.51	1.82	0.47	0.20	0.03	2.15	0.02		2.58	83.10	0.03		480
N	8.41	1.27	0.08	2.55	1.89	0.44	0.18	0.03	2.17	0.03		2.61	83.80	0.04		470
O	8.30	1.26	0.09	2.41	1.91	0.35		0.03	2.01	0.03		2.75	82.30	0.04	390	477
O	8.31	1.25	0.09	2.39	1.89	0.40		0.03	1.97	0.03		2.72	81.70	0.03	400	471
O	8.33	1.25	0.09	2.39	1.89	0.35		0.03	1.98	0.03		2.72	81.90	0.04	400	474
O	8.39	1.27	0.09	2.41	1.91	0.37		0.03	2.01	0.02		2.72	82.30	0.04	380	472
O	8.38	1.25	0.09	2.39	1.89	0.40		0.03	1.97	0.03		2.72	81.80	0.04	390	473
O	8.39	1.26	0.09	2.41	1.90	0.35		0.03	1.99	0.03		2.71	82.40	0.04	400	473
O	8.28	1.26	0.09	2.41	1.91	0.38		0.03	1.96	0.03		2.68	81.90	0.04	400	475
O	8.31	1.25	0.09	2.40	1.90	0.34		0.03	1.95	0.03		2.72	81.90	0.04	400	476
P	8.47	1.27	0.09	2.46	1.89	0.14	0.15	0.03	2.29		0.05	2.74	82.99	0.03	445	480
P	8.44	1.27	0.09	2.52	1.89	0.18	0.15	0.03	2.26		0.05	2.78	82.76	0.03	430	470
P	8.46	1.26	0.08	2.45	1.90	0.14	0.14	0.03	2.28		0.05	2.74	82.99	0.03	440	460
P	8.45	1.26	0.08	2.46	1.90	0.16	0.15	0.03	2.27		0.05	2.74	82.96	0.03	440	460
P	8.45	1.27	0.09	2.47	1.90	0.19	0.15	0.03	2.25		0.05	2.77	83.12	0.03	429	470
P	8.43	1.28	0.08	2.45	1.90	0.15	0.15	0.03	2.21		0.05	2.77	83.00	0.03	437	470
P	8.44	1.27	0.09	2.46	1.89	0.16	0.14	0.03	2.26		0.05	2.76	82.95	0.03	433	460
P	8.45	1.28	0.08	2.45	1.90	0.13	0.14	0.03	2.24		0.05	2.76	83.08	0.03	437	450
Q	8.42	1.28	0.10	2.50	1.91	0.10	0.12	0.03	2.24				82.70	0.03		
Q	8.28	1.28	0.08	2.52	1.92	0.20	0.11	0.03	2.20				82.40	0.04		
Q	8.32	1.26	0.11	2.47	1.88	0.20	0.14	0.03	2.28				81.90	0.03		
Q	8.35	1.28	0.09	2.48	1.91	0.10	0.14	0.04	2.27				82.20	0.03		
Q	8.43	1.29	0.08	2.53	1.92	0.20	0.14	0.04	2.21				82.60	0.03		
Q	8.24	1.26	0.11	2.46	1.87	0.20	0.13	0.03	2.20				81.90	0.03		
Q	8.34	1.27	0.08	2.48	1.88	0.20	0.12	0.03	2.19				82.30	0.03		
Q	8.34	1.27	0.09	2.50	1.90	0.20	0.11	0.03	2.25				82.60	0.03		
R	8.87	1.28	0.06	2.71	2.03		0.23	0.03	2.35	0.09				0.04	489	
R	8.91	1.27	0.06	2.67	1.97		0.14	0.03	2.39	0.05				0.04	478	
R	8.66	1.22	0.06	2.55	1.93		0.14	0.03	2.34	0.05				0.03	459	
R	8.35	1.18	0.06	2.48	1.86		0.13	0.03	2.25	0.05				0.03	445	
R	8.36	1.19	0.06	2.50	1.85		0.13	0.03	2.24	0.05				0.03	447	
R	8.27	1.17	0.06	2.48	1.83		0.13	0.03	2.22	0.05				0.03	438	
R	8.40	1.19	0.06	2.47	1.87		0.13	0.03	2.25	0.05				0.03	444	
R	8.51	1.20	0.06	2.48	1.89		0.13	0.03	2.27	0.05				0.03	455	

**Availability:** This product is available in Laboratory Packs containing 1kg of material or in Explorer Packs containing client specified weights of material from 50g up to 250g. Laboratory Packs are sealed bottles delivered in sealed foil pouches. Explorer Packs contain material in standard geochem envelopes placed into foil pouches that are nitrogen flushed and vacuum sealed.

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10 June 2008

**Certifying officers:**



**African Mineral Standards:** \_\_\_\_\_

**Mike McWha**  
BSc (Hons), FGSSA, MSAIMM, Pr.Sci.Nat



**Geochemist:** \_\_\_\_\_

**Barry W. Smee**  
BSc, PhD, P.Geo, (B.C.)