

Amdel Mineral Laboratories



A M D E L



QUOTATION FOR THE SUPPLY OF ANALYTICAL SERVICES

FOR

Territory Uranium “DALY”


BV-Amdel Quotation No: AU.0941285-11

Date: 1st February 2011

Amdel BU: 4987X1
Amdel Mineral
Laboratories

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QUOTATION FOR THE SUPPLY OF ANALYTICAL SERVICES

Client Details

Client Company	Territory Uranium Company Limited – Daly
Address	PO Box 36874, WINNELLIE NT, 0821
Client Representative	Mr Trevor Page / Ms Tara Muth
Telephone	+61 8 8947 0944
Facsimile	+61 8 8947 5217
Email	tpage@territoryuranium.com.au / tmuth@territoryuranium.com.au

Quotation Details

Date	1 st February 2011	
Quotation Number	AU.0941285-11	(Please quote on all correspondence)
Quotation Valid to	1 st March 2011	(for acceptance)
Term of Quotation	31 st December 2011	(Extension subject to adjustment)
Sample Description		
Type	Diamond / RAB / RC / Soil	
Sample Size	Up to 3kg	
Quantity	Approx 3300 (Daly XRF 1600, Daly 1700)	
Turnaround Time	15 working days from receipt of samples	
Sample Submission Address	Amdel Limited, 58 Hamaura Road EAST ARM NT 0822	
Telephone	+61 8 8984 4575	
Client Services	Allan Stenson, Client Services – Minerals East	
	Phone	+61 8 8416 5213
	Email	Allan.Stenson@au.bureauveritas.com
Technical Contact	Andrew Gasiorowski, Customer Service Manager – Mineral Services	
	Phone	+61 (0) 407 190 120
	Email	andrew.gasiorowski@au.bureauveritas.com
Sales Contact	Tony Fuda, Business Development Manager - Geoanalytical	
	Phone	+61 (0) 418 577 948
	Email	tony.fuda@au.bureauveritas.com

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SCOPE OF WORK

This quotation replaces expired quotation AU.0738586-10 that expired on 31st December 2010. This quotation will be valid for the 2011 calendar year. All analysis options remain unchanged and overall pricing has been increased by approximately 3% to cover CPI rises.

The original scope of work for quotation AU.0738586-10 is listed below.

Original Scope of Work for Quotation AU.0738586-10

Mr Andrew Chapman of Territory Uranium has requested an update to quotation for analysis of Daly Uranium & Bluebush programs. The update is to include the reporting of W by method IC3M and the inclusion of an option for Rare Earth Elements by method IC3R. On 29th October 2010 a further update has been made to this quotation to include Ce, La & Y in the IC3R analysis and an option has been included for IC4R analysis. The scope of work for the original quotation is listed below.

Mr Trevor Page of Territory Uranium Company Limited has requested a quotation to undertake samples for the 2010 calendar year. Trevor has kindly supplied information by email, and an excerpt is listed below:

As we have previously discussed I'm interested in getting element suites set up for Territory Uranium. In the attached excel spreadsheet I have listed 5 elemental suites which we would like to get quotes for as we will be using them throughout the year.

You will notice in the spreadsheet I have "method" listed, this is NOT definite, they are simply the methods we have been using for the last year. If there is a more accurate method (or cheaper method to achieve the same result) feel free to suggest it. I don't think this is possible for the Daly Uranium XRF or Deep Leach suites though as we definitely what the samples tested with XRF and IC8M11 methods.


For the purposes of the quote, when we get the Deep Leach suite tested it will be done in conjunction with another suite, most likely "Daly Uranium" or "Daly Uranium XRF", this may have some impact in regards to sample preparation.

If you have any questions feel free to get back to me.

Based on the above requirements and further discussions between Andrew Gazz and Trevor Page, three quotations have been generated. These quotations reflect the types of samples proposed and the requirements for assay.

Note that the samples are proposed to be prepared at the BV Amdel facility in Darwin, and submitted to the Adelaide facility for analysis. Where backlogs exist, Amdel may transfer the samples to another facility to expedite results. Any transportation costs between assay facilities will be borne by BV Amdel.

Please feel free to contact Andrew Gazz or Tony Fuda where further clarification or amendments are required.

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Option A – Fast Turnaround

“Option A” suite refers to the analysis of Daly Uranium XRF samples, where XRF results are required urgently over and above the IC3M Uranium values upon completion of data. Please note that this option excludes Deep Leach analysis.

Preparation:

Preparation will be based on the types of samples submitted. Where samples are required to be assayed for Hg and/or Deep Leach analysis codes, drying temperatures will be decreased to 40°C. Please note that this may increase the TAT as samples require a longer drying time.

PREP1	For samples up to 3 kg in weight, the samples will be sorted and dried to a core temperature of approximately 100°C. Discrepancies between sample submission sheets and samples received will be reported to the client.	Price per sample \$1.25
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Please note that crushing will be undertaken where required.

PREP3	Boyd crush the total sample (up to 3 kg) to approximately 5 mm.	Price per sample \$1.65
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PREP2	The total sample will be milled in an LM5 pulveriser to 90% passing 106 µm. An analytical pulp of 250 g will be taken from the bulk and the residue retained, where practical, in the original bag.	Price per sample \$3.90
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Daly Uranium XRF Analysis:

XRF1	XRF analysis by pressed powder. XRF determines total values and is suitable for the analysis of drill core, rocks, stream sediments and soils. Elements available are: U (4 ppm)	Price per sample \$9.80
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FA3E	A subsample of 40 g of the analytical pulp is fused in a lead collection fire assay. The resulting prill is digested in aqua-regia and the gold content of the sample is determined by ICPOES Au (1 ppb) Pt (5 ppb) Pd (1 ppb)	Price Per sample \$10.50
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FA3 Waste	Fire Assay waste is disposed as per EPA regulations.	Price per sample \$0.50
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Daly Uranium XRF Analysis (cont.):

IC3 – Multi Acid Digest, finish by ICP-OES/AES and ICP-MS.

IC3E	A subsample of up to 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPOES for the quantification of the elements of interest. Range is to 1% except Fe (30%), Ca (5%), Mg (2%), P (2%), Mn (2%), K (1%).			
	Ba (10 ppm)	Ca (10 ppm)	Cr (2 ppm)	Cu (2 ppm)
	Fe (100 ppm)	K (10 ppm)	Mg (10 ppm)	Mn (5 ppm)
	Na (10 ppm)	Ni (2 ppm)	P (10 ppm)	Pb (5 ppm)
	Ti (10 ppm)	V (2 ppm)		
Price per full suite \$13.40				


IC3M	A subsample of 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPMS for the quantification of the elements of interest. Range is to 0.1%. Some elements may be inappropriate due to mineralisation present.			
	Ag (0.1 ppm)	As (0.5 ppm)	Bi (0.1 ppm)	Co (0.2 ppm)
	Mo (0.1 ppm)	Sb (0.5 ppm)	Se (0.5 ppm)	Sn (0.5 ppm*)
	Te (0.2 ppm)	Th (0.1 ppm)	U (0.1 ppm)	W (0.5 ppm*)
	Zn (0.5 ppm)			
	*partial extraction only			
	Price full suite (in addition to IC3E) \$9.30			

IC3R	A subsample of 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPMS for the quantification of the elements of interest. Range is to 0.1%. Some elements may be inappropriate due to mineralisation present.			
	Dy (0.02 ppm)	Er (0.05 ppm)	Eu (0.02 ppm)	Gd (0.05 ppm)
	Ho (0.02 ppm)	Lu (0.02 ppm)	Nd (0.02 ppm)	Pr (0.05 ppm)
	Sm (0.02 ppm)	Tb (0.02 ppm)	Tm (0.05 ppm)	Yb (0.05 ppm)
	Ce (0.5 ppm)	La (0.5 ppm)	Y (0.05 ppm)	
Price per sample (in addition to IC3E & IC3M) \$10.30				

IC4 – Lithium Borate Fusion, finish by ICP-MS.

***Analysis will only be undertaken if specifically requested on sample submission paperwork.**

IC4R	A 0.1 g subsample of the analytical pulp is fused with lithium metaborate followed by dissolution to give a "total solution". The solution is presented to an ICPMS for the determination of elements of interest.			
	Dy (0.5 ppm)	Er (1 ppm)	Eu (0.5 ppm)	Gd (1 ppm)
	Ho (0.5 ppm)	Lu (0.5 ppm)	Nd (0.5 ppm)	Pr (1 ppm)
	Sm (0.5 ppm)	Tb (0.5 ppm)	Tm (1 ppm)	Yb (1 ppm)
	Ce (1 ppm)	La (1 ppm)	Y (1 ppm)	
Price per sample \$25.00				

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For samples requiring Hg – please list clearly on the submission sheet to ensure correct procedures are followed. Changes are required for sample preparation and additional scheme listed below.

AA6	A 0.75 g sample is digested using a mixture of nitric and hydrochloric acid. The resulting solution is bulked to volume with water and quantified by cold vapour AAS. Range to 20 ppm. Hg (0.05 ppm)
Price per sample \$12.35	

Option B – Normal Turnaround

“Option B” suite refers to the analysis of Daly Uranium samples where standard turnaround time is required for the submitted samples. Please note that this option excludes Deep Leach analysis.

Preparation:


Preparation will be based on the types of samples submitted. Where samples are required to be assayed for Hg and/or Deep Leach analysis codes, drying temperatures will be decreased to 40°C. Please note that this may increase the TAT as samples require a longer drying time.

PREP1	For samples up to 3 kg in weight, the samples will be sorted and dried to a core temperature of approximately 100°C. Discrepancies between sample submission sheets and samples received will be reported to the client.
Price per sample \$1.25	

Please note that crushing will be undertaken where required.

PREP3	Boyd crush the total sample (up to 3 kg) to approximately 5 mm.
Price per sample \$1.65	

PREP2	The total sample will be milled in an LM5 pulveriser to 90% passing 106 µm. An analytical pulp of 250 g will be taken from the bulk and the residue retained, where practical, in the original bag.
Price per sample \$3.90	

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Daly Uranium Analysis:

FA3E	A subsample of 40 g of the analytical pulp is fused in a lead collection fire assay. The resulting prill is digested in aqua-regia and the gold content of the sample is determined by ICPOES		
	Au (1 ppb)	Pt (5 ppb)	Pd (1 ppb)
Price Per sample \$10.50			


FA3 Waste	Fire Assay waste is disposed as per EPA regulations.
Price per sample \$0.50	

IC3 – Multi Acid Digest, finish by ICP-OES/AES and ICP-MS.

IC3E	A subsample of up to 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPOES for the quantification of the elements of interest. Range is to 1% except Fe (30%), Ca (5%), Mg (2%), P (2%), Mn (2%), K (1%).		
	Ba (10 ppm)	Ca (10 ppm)	Cr (2 ppm)
	Fe (100 ppm)	K (10 ppm)	Mg (10 ppm)
	Na (10 ppm)	Ni (2 ppm)	P (10 ppm)
	Ti (10 ppm)	V (2 ppm)	
Price per full suite \$13.40			

IC3M	A subsample of 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPMS for the quantification of the elements of interest. Range is to 0.1%. Some elements may be inappropriate due to mineralisation present.			
	Ag (0.1 ppm)	As (0.5 ppm)	Bi (0.1 ppm)	Co (0.2 ppm)
	Mo (0.1 ppm)	Sb (0.5 ppm)	Se (0.5 ppm)	Sn (0.5 ppm*)
	Te (0.2 ppm)	Th (0.1 ppm)	U (0.1 ppm)	W (0.5 ppm*)
	Zn (0.5 ppm)			
	*partial extraction only			
	Price full suite (in addition to IC3E) \$9.30			

IC3R	A subsample of 0.2 g of the analytical pulp is digested using an HF/multi acid digest and the solution is presented to an ICPMS for the quantification of the elements of interest. Range is to 0.1%. Some elements may be inappropriate due to mineralisation present.		
	Dy (0.02 ppm)	Er (0.05 ppm)	Eu (0.02 ppm)
	Ho (0.02 ppm)	Lu (0.02 ppm)	Nd (0.02 ppm)
	Sm (0.02 ppm)	Tb (0.02 ppm)	Tm (0.05 ppm)
	Ce (0.5 ppm)	La (0.5 ppm)	Y (0.05 ppm)
Price per sample (in addition to IC3E & IC3M) \$10.30			

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IC4 – Lithium Borate Fusion, finish by ICP-MS.

***Analysis will only be undertaken if specifically requested on sample submission paperwork.**

IC4R	A 0.1 g subsample of the analytical pulp is fused with lithium metaborate followed by dissolution to give a "total solution". The solution is presented to an ICPMS for the determination of elements of interest.			
	Dy (0.5 ppm)	Er (1 ppm)	Eu (0.5 ppm)	Gd (1 ppm)
	Ho (0.5 ppm)	Lu (0.5 ppm)	Nd (0.5 ppm)	Pr (1 ppm)
	Sm (0.5 ppm)	Tb (0.5 ppm)	Tm (1 ppm)	Yb (1 ppm)
	Ce (1 ppm)	La (1 ppm)	Y (1 ppm)	
Price per sample \$25.00				

For samples requiring Hg – please list clearly on the submission sheet to ensure correct procedures are followed. Changes are required for sample preparation and additional scheme listed below.

AA6	A 0.75 g sample is digested using a mixture of nitric and hydrochloric acid. The resulting solution is bulked to volume with water and quantified by cold vapour AAS. Range to 20 ppm.
	Hg (0.05 ppm)
Price per sample \$12.35	


Option C – Normal Turnaround incl. Deep Leach analysis

"Option B" suite refers to the analysis of Daly Uranium samples where standard turnaround time is required for the submitted samples. Please note that this option includes Deep Leach analysis.

Preparation:

Preparation will be based on the types of samples submitted. Samples received for the deep leach process are not to be prepared before analysis. Drying temperatures will be decreased to 40°C. Please note that this process increases the TAT as samples require a longer drying time. The received samples will need to be split as one portion requires pulverising, the second half does not.

PREP1	For soils up to 3 kg in weight, the samples will be sorted and dried to a core temperature of approximately 100°C. Discrepancies between sample submission sheets and samples received will be reported to the client.	Price per sample \$1.25
PREP4	Split the received sample into two portions. One split will be retained as original, the other will be organised for pulverising.	Price per sample \$1.25
PREP2	The total sample will be milled in an LM5 pulveriser to 90% passing 106 µm. An analytical pulp of 250 g will be taken from the bulk and the residue retained, where practical, in the original bag.	Price per sample \$3.90

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IC4 – Lithium Borate Fusion, finish by ICP-MS.

***Analysis will only be undertaken if specifically requested on sample submission paperwork.**


IC4R	A 0.1 g subsample of the analytical pulp is fused with lithium metaborate followed by dissolution to give a "total solution". The solution is presented to an ICPMS for the determination of elements of interest.			
	Dy (0.5 ppm)	Er (1 ppm)	Eu (0.5 ppm)	Gd (1 ppm)
	Ho (0.5 ppm)	Lu (0.5 ppm)	Nd (0.5 ppm)	Pr (1 ppm)
	Sm (0.5 ppm)	Tb (0.5 ppm)	Tm (1 ppm)	Yb (1 ppm)
	Ce (1 ppm)	La (1 ppm)	Y (1 ppm)	
Price per sample \$25.00				

For samples requiring Hg – please list clearly on the submission sheet to ensure correct procedures are followed. Changes are required for sample preparation and additional scheme listed below.

AA6	A 0.75 g sample is digested using a mixture of nitric and hydrochloric acid. The resulting solution is bulked to volume with water and quantified by cold vapour AAS. Range to 20 ppm.
	Hg (0.05 ppm)
Price per sample \$12.35	

For samples requiring Deep Leach analysis:

Mobile Metal Ions – Partial Leach Technology	
Offers a 'weak' or 'soft' digestion allowing the removal of labile ions from the exotic regolith or overburden material. Measurement is by ICPMS. As total data is not being sought, and data is empirical, and base variations may occur from batch to batch but trends between batches are real. Using this technology, signatures or anomalies from considerable depth can be 'seen' as distinct from normal geochemistry techniques.	
IC8M11	Partial extraction using selected leachant (ppb).
	Au, Ag, As, Bi, Cu, Co, Ce, Pb, Ni, Mo, U, V, Th, Zn, W
Price per sample (15 element scan) \$27.80	

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REPORTING

The results will be available by e-mail.

Data is available in existing format(s).

The final report (if required) and invoice will be sent after all assays are complete. The report will refer to a single order form.

SAMPLE DELIVERIES & RETURN

Delivery of samples to the laboratory and return upon completion are excluded from this quotation.

Please deliver the samples to:

Quote Number: **AU.0941285-11**
 58 Hamaura Road
 EAST ARM NT 0822

It is understood that the transport of goods will be handled by the customer to and from the submitting facility. Where specific requirements are necessary for delivery of samples back to the customer or on-forwarding as required, additional costs may apply

The customer will be contacted for details of return of samples.


ASBESTIFORM AND RADIOACTIVE SAMPLES

It is an Amdel requirement that client notifies the laboratory regarding hazardous and potentially hazardous deliveries, such as those suspected of containing asbestos or radioactive substances in order to prevent exposure of staff.

Samples containing radioactive substances will be set aside for preparation and analysis under controlled conditions in accordance with NH&MRC guidelines.

Amdel will process all materials flagged as radioactive in our hazardous materials area. Technicians working in this area undergo specialised training in the processing of hazardous materials. Appropriate PPE will be worn at all times and tailored procedures will be followed to protect the operators and the environment from exposure to any harm.

Additional charges apply will apply to the sample preparation and weighing of hazardous materials.

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SAMPLE STORAGE

Samples are stored in kraft pocket envelopes 220mmx110mm in boxes of 20. Amdel will store these sample portions free of charge for a period of 60 days from the final reporting date. After that period, samples will be returned to the client.

QUALITY CONTROL PROGRAM

Sample Preparation

Sample pulverisers are cleaned mechanically and/or with vacuum. Quartz or blue metal washes are utilised to ensure no carry over contamination between individual jobs. Samples of wash materials are retained for analysis if required.


Analysis

A nominal one in twenty (5%) of all samples are analysed in duplicate. This indicates any variance at the analytical stage. In addition, re-splits if required are also analysed to determine the precision of the sample preparation and analytical procedures.

Blanks and reference materials are randomly inserted into every rack of samples. These provide a measure of accuracy. Internal quality control data (standards, replicates etc) can be reported as a separate "quality report" on a basis approved by the client.

The reference materials used may be national, international reference standards, in-house or client supplied. Specific materials will be selected based on the elements of interest and expected ranges of concentration. Values are determined independently through various means including laboratory round robin. These materials are prepared in bulk and are used extensively across a number of Amdel's laboratories.

Samples returning anomalous results will be re-assayed by techniques considered appropriate for the level of analyte encountered.

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QUALITY ASSURANCE

Amdel has adopted the ISO 9001 Quality Management Systems. All Amdel laboratories work to documented procedures in accordance with this standard.

NATA (ISO17025) certified reports are available on request through our Adelaide laboratory for all common geochemical, ore and concentrate analysis.

Detection Limit and Accuracy

Detection limits quoted in this services guide are set for standard sample types analysed for each method. In some cases better detection limits may be achievable. Please contact the laboratory to discuss your specific requirements so that we can determine the analysis method, and detection limit that best suits your needs.

Results are reported in increments equivalent to the limit of detection, or a set number of significant figures, which ever is the largest. As a rule of thumb, however, accuracy equivalent to +/- 2 times detection limit is achievable, up to a concentration of 25 times the detection limit, and then +/- 5% of the value thereafter. Results reported in increments equivalent to the DL or a set number of significant figures whichever is the largest.

Detection limits may vary slightly between each of our laboratories due to differences in the laboratory's configuration, instrumentation, and quality of consumables procured locally.

Terms

Trading terms are net 30 days from date of invoice.

This quotation is valid for a period of 30 days from the above date.


This quotation is subject to our standard Terms and Conditions of Trade (**Attachment 1**).

Prices will remain fixed for the term stated on the cover page with extension subject to Capital City CPI rise and fall review. Any additional costs incurred through changes in Government regulations from the time of quotation will be passed on at cost.

GOODS AND SERVICES

All prices quoted are in Australian \$ and are exclusive of GST unless otherwise stated.

Any analysis that is not quoted will be charged at list price.

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APPROVAL & ACCEPTANCE:

We hereby acknowledge and accept the proposal as per the Scope of Work indicated in this document, and as per Bureau Veritas' General Terms and Conditions of Service dated December 1st 2010:

QUOTE NUMBER: **AU.0941285-11**

SIGNATURE:

WRITTEN NAME:

POSITION:

FOR (COMPANY):

DATES:

Kindly email approval and acceptance to: **allan.stenson@au.bureauveritas.com**