

June Quarter 2009

Key Points

- Strategic quality of 100%-owned 11,000km² Gardiner-Tanami Project recognised with positive investor sentiment for uranium returning to capital markets.
- Diamond drilling program to commence in the current Quarter on the high priority Oracle-Soma and Lewis Creek North targets.
- Major expansion of Gardiner-Tanami project in the Northern Territory proposed with 5,000km² of new tenement grants expected following negotiations with the Aboriginal traditional owners and CLC.

Key Projects*Gardiner-Tanami – WA and NT uranium and gold*

- Access-approved well defined Oracle-Soma and Lewis Creek North drill targets on WA granted tenements.
- Advanced negotiations with CLC and traditional owners for grant of extensive NT tenement package.

Kurundi – NT uranium and phosphate

- Munadgee mine a high grade uranium target set for drilling following further discussions with the CLC and Aboriginal traditional owners.
- Phosphate potential under review.

Epenarra & Amadeus Basin – NT phosphate

- Epenarra – 3000km² of exploration licences near the 460Mt Wonarah rock phosphate deposits.
- Amadeus - 80km strike length of dolomite stratigraphy with recorded phosphatic occurrences in old drill holes.

ASX Code NTU

ABN 61 119 966 353

CAPITAL DETAILS

Shares on issue 58.2M
Share Price \$0.20
Market cap \$11.6M
12 month low \$0.10
12 month high \$0.43
Cash at 30 June \$648,000
July placement \$1,125,000

DIRECTORS

Executive Chairman
Mr Kevin Schultz

Non-executive Directors
Mr Adrian Griffin
Mr Bob Hair
Mr Colin McCavana
Mr Philippe Portella

PRINCIPAL OFFICE

Level 2, 7 Havelock Street
West Perth WA 6005
Tel: (08) 9481 2344
Fax: (08) 9481 5929
www.northernuranium.com.au
info@northernuranium.com.au

PROJECTS

Gardiner-Tanami (WA / NT)
Kurundi (NT)
Epenarra (NT)
Amadeus Basin (NT)
Wallal (WA)
Lake Barlee (WA)

SUMMARY

During the June 2009 Quarter a broad-based revival in commodity prices triggered renewal of investor interest in mineral exploration companies. With the world economic crisis delaying uranium mine expansion and new mine developments, finance market analysts forecast the likelihood of a future deficit in supply and higher uranium prices, stimulating strong investor interest in the uranium sector.

Northern Uranium's 11,000km² Gardiner-Tanami Project gained the attention of investors because of its strategic importance for uranium exploration. It is one of a very limited number of readily accessible areas in the world with geological characteristics appropriate for the discovery of the world class, high grade unconformity-related deposit type.

The Company has been exploring for unconformity-related uranium deposits in the Gardiner-Tanami area since 2007 with French nuclear group Areva NC subsidiary, Afmeco Mining and Exploration Pty Ltd (Afmex) as the project operator. During the June Quarter Northern Uranium announced plans to re-commence on-ground exploration activities, including diamond drilling to test the Oracle-Soma and Lewis Creek North targets that were defined by Afmex in 2008.

The strengthening of interest in uranium and quality of Northern Uranium's assets saw the Company succeed in raising \$1,125,000 through a placement managed by Patersons Securities Limited. The placement was completed within the Company's 15% capacity allowed under ASX Listing Rule 7.1 with shares issued to institutional and sophisticated investors. The primary purpose of the placement was to fund resumption of on-ground exploration at Gardiner-Tanami, including commencement of diamond drilling.

Afmex is aiming to commence a five hole program on the Oracle-Soma target in late August in the first phase of a two phase campaign. Several drilling contractors have submitted tenders and a contractor is expected to be appointed soon. The second phase, seven holes in the Lewis Creek North area, requires additional funding to be arranged.

During the Quarter the Company also announced its intention to progress expansion of the Gardiner-Tanami project in the Northern Territory (NT). About 5,000km² of tenements that are contiguous with the Western Australia (WA) tenements are expected to be granted when an Exploration Deed currently being negotiated with the Central Land Council (CLC) and Aboriginal traditional owners is finalised.

Northern Uranium remains sharply focused on the Company's uranium potential, and the Board is considering the best way to derive value from the Company's rock phosphate projects in northern Australia. Opportunities for divestment are likely to arise in the future as demand for this essential food production commodity picks up.

EXPLORATION ACTIVITIES

URANIUM EXPLORATION

GARDINER-TANAMI SUPER PROJECT (Northern Uranium 100% - Afmex operator)

The Gardiner-Tanami project covers an area of approximately 11,000km² centred on the WA-NT border 200km southeast of Halls Creek (Figure 1).

The regional geology and evidence from past exploration have established that the Gardiner-Tanami area exhibits key elements for unconformity-related uranium deposit. Such deposits are typically formed by the mixing of oxidised basinal uranium-bearing brines, at or near an unconformity, and reduced basement fluids, associated to distinctive basement rocks ('graphitic metapelites') within fault zones, where redox reactions favour the deposition of high grade

For personal use only

uranium mineralisation (Figure 3). Exploration is therefore aimed at discovering sub-surface sites where conditions were favourable for fluid mixing and redox reactions.

Using techniques such as helicopter-borne EM (VTEM), ground EM, airborne hyperspectral mapping and detailed airborne radiometric and magnetic surveys Afmex's exploration since 2007 has covered some 5,000km² of tenements, mainly in WA, to pinpoint the highest quality targets with potential for discovery of unconformity-related uranium. This 'whole of project' approach by Afmex reflects Areva's experience and exploration success in Canada within the Athabasca Basin which hosts the world's highest grade unconformity-related uranium deposits.

The Gardiner-Tanami area is also compared favourably with the Alligator Rivers region in the NT where the Ranger mine, Australia's largest operating uranium mine, is located.

The main targets highlighted to date by Afmex include:

- **Oracle-Soma WA** (Figures 2 & 4) - highest priority target area in the vicinity of "The Don" prospect (1980s primary uranium-gold discovery 5km to the east in an adjacent tenement - Figure 2). Extensive surface uranium radiometric anomalies coincide with VTEM conductors in a geological setting similar to the setting of the Ranger uranium deposit, Alligator Rivers NT.
- **Lewis Creek North WA** (Figure 2) - extensive surface uranium radiometric anomalies and several VTEM conductors on favourable structures at or near the Gardiner Sandstone unconformity. Primary uranium mineralisation was discovered in the 1980s at Mt Mansbridge 2km to the east in an adjacent tenement.
- **Suplejack NT** (Figure 2) - extensive surface uranium radiometric anomalies coinciding with VTEM conductors.
- **Browns Range (WA)** (Figure 2) - Rare Earth Elements (REE) mineralisation and uranium in rock chip samples suggesting hydrothermal activity conducive to uranium formation.
- **Deva (WA)** (Figure 2) - VTEM conductors in proximity to a regional fault structure and a historical uranium geobotanical anomaly
- **Gunibuy (WA)** (Figure 2) - Several strong, deep VTEM conductors coincident with structural features and historical gold workings.

The Browns Range, Deva and Gunibuy prospects require further geophysical modelling and on-ground geological mapping before definite drill targets can be defined.

Northern Territory Expansion

Northern Uranium is also progressing plans for a significant expansion of the Gardiner-Tanami exploration program in the NT.

The Company's exploration to date has concentrated mainly on granted tenements in WA, with progress in the NT, outside of land under pastoral leases, requiring finalisation of negotiations with Aboriginal freehold land holders and the CLC. A draft Exploration Deed submitted by the CLC is currently being considered by the Company.

The negotiations are expected to be concluded during the second half of 2009, following which about 5,000km² of contiguous tenements can be granted (Figure 2). The tenements cover a number of known uranium prospects/occurrences that were discovered in the 1970s and 1980s by companies such as PNC Exploration (Australia) Pty Ltd (PNC) and Otter Mines NL (Otter).

PNC found uranium mineralisation on a prospect referred to as Area 20, and rock-chip samples from costeans returned assays of up to 1.5% uranium. Follow up included shallow RAB drilling and two diamond drill holes, one of which intersected black, graphitic shale at 40m depth. The uranium mineralisation in the area, together with the existence of graphitic/carbonaceous shales and its proximity to the interpreted sandstone unconformity, makes Area 20 a very attractive target requiring follow-up. PNC did not continue its exploration in the 1980s due to budgetary constraints.

Several other radiometric anomalies have been outlined to the south and southwest of Area 20, with limited shallow drill testing and surface sampling completed. These areas remain as targets for unconformity-related uranium discovery.

On another prospect, Boulder Ridge, discovered by Otter in the late 1970s, anomalous rock-chip samples up to 0.11% U_3O_8 were collected over several hundred metres of strike. However, most of the area is covered by a thin veneer of transported soils, which discouraged further work at a time of declining interest in uranium by exploration companies.

Two new ELs were applied for by Northern Uranium in the NT during the June Quarter, increasing the Gardiner-Tanami project area in the NT by another 840km².

Gardiner-Tanami Future Work

Northern Uranium is currently focussed on preparations for the imminent diamond drilling program. The full extent of the program will be dependent on the availability of funds. Afmex is aiming to commence a five hole program on the Oracle-Soma target in August in the first phase of a two phase campaign. The second phase - seven holes in the Lewis Creek North area - requires additional funding to be arranged.

KURUNDI PROJECT (Northern Uranium operator)

The Kurundi project is situated approximately 100km southeast of Tennant Creek in the NT. It comprises two ELs covering an area of 730km² (in which Northern Uranium holds uranium and phosphate rights) and an 18.8ha mineral claim (MCC968) covering the historic Munadgee uranium mine.

An option held by the Company to acquire 90% interest in MCC968 was extended during the June Quarter for an additional two years by an issue of 87,912 NTU shares (equivalent to \$20,000 at then current VWAP30).

The Company intends diamond drilling a potentially high-grade uranium target immediately below the historical Munadgee mine following negotiations with traditional owners concerning Aboriginal heritage and access across Aboriginal freehold land that adjoins mineral claim MCC968.

WALLAL PROJECT (Northern Uranium 100%)

Situated approximately 50km east-northeast of Goldsworthy in WA, the Company's exploration at Wallal is targeting sandstone-hosted uranium deposits in sediments of the Canning Basin (Figure 1).

Airborne EM geophysical surveying in 2007 and interpretation in 2008 identified potential trap sites for roll-front uranium mineralisation.

An additional exploration licence was granted during the June 2009 Quarter.

For personal use only

PHOSPHATE EXPLORATION

EPENARRA PHOSPHATE PROJECT (Northern Uranium 100%)

Northern Uranium holds approximately 3,000km² of granted exploration licences and EL applications, northeast of Kurundi, within the Georgina sedimentary basin which hosts the Duchess mine in Queensland (82Mt at 24% P₂O₅) and Wonarah deposit in the Northern Territory (460Mt at 18.8% P₂O₅ currently under feasibility study). The Epenarra tenements cover the same sedimentary strata that host Wonarah, only 50km distant.

An EL over an area of 1,262 km² (397 blocks) was applied for during the June Quarter, 70km north-west of Wonarah. The exploration program will target phosphorite deposits of the Wonarah type. Magnetic and gravity features, indicating basement highs (analogous to Wonarah) along with relevant Cambrian potential host lithologies are interpreted to underlie the application area.

A systematic assessment and historic data review of the central Georgina Basin is currently being conducted. The historic data review includes all topographic, geological, geophysical, geochemical and drill hole information sourced from NT government agencies and records of previous exploration activities. All existing historic data that is relevant to the Epenarra project is being integrated into the Company's existing geological database.

KURUNDI PHOSPHATE (Northern Uranium operator and earning 60%)

Under an agreement with Washington Resources Limited ("Washington", ASX: WRL), Northern Uranium is investigating the possibility of phosphate and uranium co-existing in commercially viable concentrations, and also exploring directly for rock phosphate deposits in the Cambrian-age Georgina Basin sediments that lie within Kurundi tenements. There is a strike length of approximately 50km of potentially phosphate-bearing sediments to investigate.

AMADEUS BASIN PHOSPHATE PROJECT (Northern Uranium 100%)

The Company holds six exploration licence applications covering a total of 1,050km² in the Amadeus Basin situated approximately 50km east of Alice Springs.

The Cambrian Todd River Dolomite has recorded phosphatic occurrences, including historical drilling with reported intersections of 6m at 22.8% P₂O₅ and 2m at 4.13% P₂O₅. More than 80km strike length of this stratigraphic unit is present in the Company's ELs, with uranium radiometric anomalies providing initial targets (uranium radiometric anomalies are commonly associated with phosphate rock occurrences).

ABOUT NORTHERN URANIUM

Northern Uranium Limited is primarily a uranium exploration and development company and holds large and prospective projects in WA and the NT. The current priority is the Gardiner-Tanami uranium project where drilling is now expected to commence in the September Quarter.

The Company has a strategic alliance with the French nuclear group, Areva NC, via its wholly owned subsidiaries, Areva NC Australia Pty Ltd (Areva) and Afmeco Mining and Exploration Pty Ltd (Afmex). Afmex is the operator of uranium exploration and development of the Gardiner-Tanami Super Project. Areva will also market any uranium produced by Northern Uranium, and has a substantial shareholding in the Company.

During 2008 Northern Uranium recognised opportunities to explore for phosphate in the NT, and secured prospective ground under exploration licence applications. With investor interest in the Company now more sharply focused on the Company's uranium potential, the Board is considering the best way to derive value from the Company's phosphate projects.

INVESTOR INFORMATION

Principal Office:

Level 2, 7 Havelock Street
West Perth WA 6005
PO Box 669
West Perth WA 6872
Tel: 08 94812344
Fax: 08 94815929
Email: info@northernuranium.com.au
Web: www.northernuranium.com.au

Capital Structure:

Share Price (NTU): \$0.20
Issued Shares: 58.2M
Market Cap: \$11.6M
Options 25c (NTUO): 23m
Options 25c (Unlisted): 100,000
Options 55c (Unlisted): 500,000

Company Directors & Management:

Kevin Schultz – Executive Chairman
Adrian Griffin - Non exec. Director
Bob Hair - Non exec. Director
Colin McCavana - Non exec. Director
Philippe Portella – Non exec. Director
Robin Wilson – General Manager
Ingrid Laudzevics – Company Secretary
Jay Piner – Chief Financial Officer

Announcements since 1 April 2009:

4/05/2009 - Quarterly Activity Report and Cashflow
2/06/2009 - Appendix 3B
4/06/2009 - Correction to Appendix 5B
11/06/2009 - Appendix 3B
16/06/2009 - Amended Appendix 3B
16/06/2009 - Gardiner-Tanami Project Update
26/06/2009 - Change of Directors Interest
2/07/2009 - Placement to raise \$1.125 Million
03/07/2009 - Becoming a substantial holder from Geiger Counter
7/07/2009 - Section 708A and Appendix 3B
08/07/2009 - Change in substantial holding from POL
13/07/2009 - Change in substantial holding from WRL
14/07/2009 - Change in substantial holding from Areva

Competent Person Declaration

The information in this report accurately reflects information prepared by competent persons (as defined by the Australasian Code for Reporting of Mineral Resources and Ore Reserves). It is compiled by Mr K Schultz, an employee of the Company who is a Fellow of The Australasian Institute of Mining and Metallurgy with the requisite experience in the field of activity in which he is reporting. Mr Schultz has sufficient experience which is relevant to the style of mineralisation and the type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Schultz consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

For and on behalf of
NORTHERN URANIUM LIMITED



Kevin Schultz
Executive Chairman
July 2009

For personal use only

Figure 1
NORTHERN URANIUM CURRENT PROJECTS

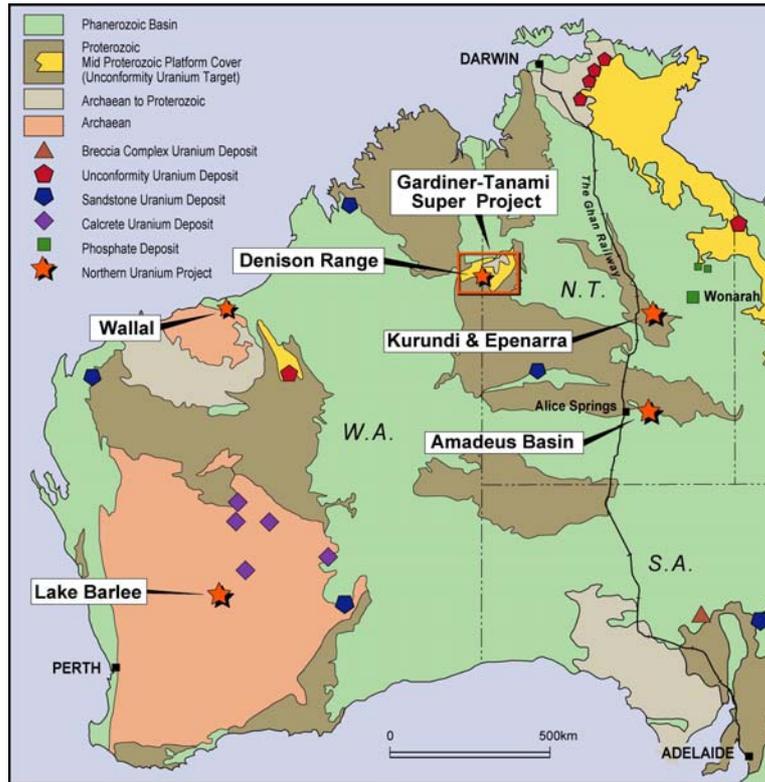
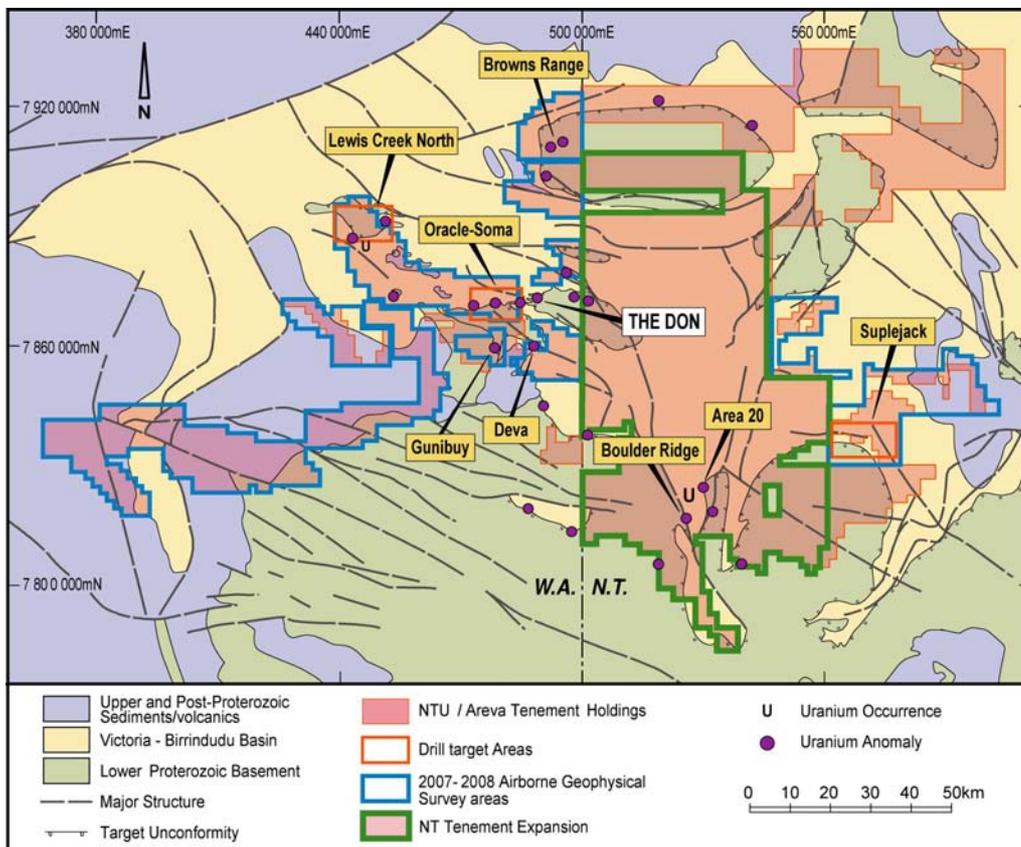


Figure 2
GARDINER-TANAMI PROJECT
GEOLOGY, TENEMENTS, GEOPHYSICAL SURVEY COVERAGE AND TARGETS



For personal use only

For personal use only

Figure 3

IDEALISED MODEL – UNCONFORMITY-RELATED URANIUM DEPOSITS

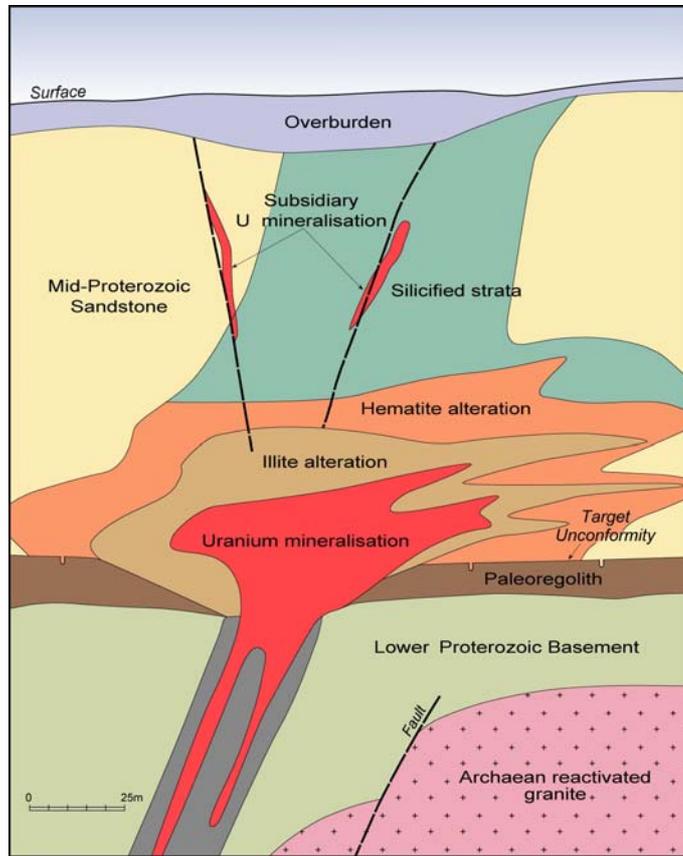
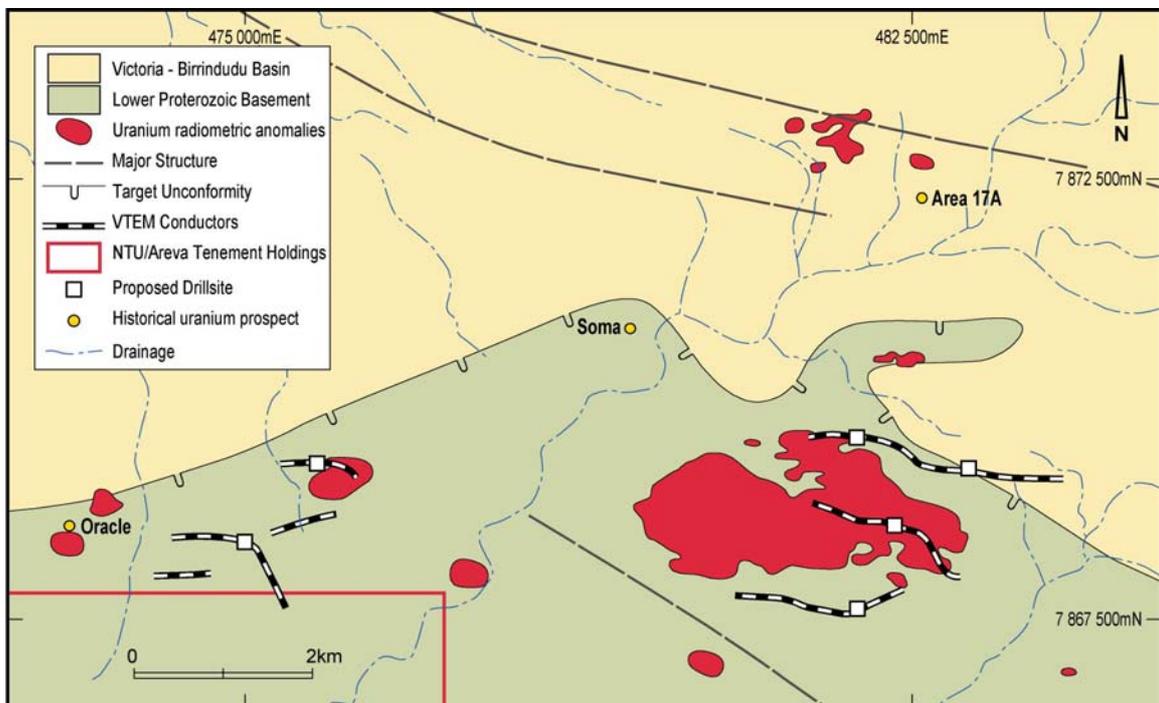


Figure 4

ORACLE-SOMA URANIUM TARGET AREA WA
SITES OF PROPOSED DRILL HOLES



Appendix 5B

Mining exploration entity quarterly report

Introduced 1/7/96. Origin: Appendix 8. Amended 1/7/97, 1/7/98, 30/9/2001.

Name of entity

Northern Uranium Limited

ABN

61 119 966 353

Quarter ended ("current quarter")

30 June 2009

Consolidated statement of cash flows

Cash flows related to operating activities	Current quarter \$A'000	Year to date (12 months) \$A'000
1.1 Receipts from product sales and related debtors	-	-
1.2 Payments for (a) exploration and evaluation	(162)	(2,885)
(b) development	-	-
(c) production	-	-
(d) administration	(153)	(842)
1.3 Dividends received	-	-
1.4 Interest and other items of a similar nature received	6	124
1.5 Interest and other costs of finance paid	-	-
1.6 Income tax refund	-	-
1.7 Net goods and services tax received / (paid)	18	185
Net Operating Cash Flows	(291)	(3,418)
Cash flows related to investing activities		
1.8 Payment for purchases of: (a) prospects	-	-
(b) equity investments	-	-
(c) other fixed assets	-	(3)
1.9 Proceeds from sale of: (a) prospects	-	-
(b) equity investments	-	-
(c) other fixed assets	-	2
1.10 Loans to other entities	-	-
1.11 Loans repaid by other entities	-	-
1.12 Other (provide details if material)	-	(15)
Net investing cash flows	-	(16)
1.13 Total operating and investing cash flows (carried forward)	(291)	(3,434)

+ See chapter 19 for defined terms.

For personal use only

Appendix 5B
Mining exploration entity quarterly report

1.13	Total operating and investing cash flows (brought forward)	(291)	(3,434)
Cash flows related to financing activities			
1.14	Proceeds from issues of shares, options, etc.	-	-
1.15	Proceeds from sale of forfeited shares	-	-
1.16	Proceeds from borrowings	-	-
1.17	Repayment of borrowings	-	-
1.18	Dividends paid	-	-
1.19	Payments for share issue costs	-	-
Net financing cash flows		-	-
Net increase (decrease) in cash held		(291)	(3,434)
1.20	Cash at beginning of quarter/year to date	902	4,045
1.21	Exchange rate adjustments to item 1.20	-	-
1.22	Cash at end of quarter	611	611

Payments to directors of the entity and associates of the directors

Payments to related entities of the entity and associates of the related entities

		Current quarter \$A'000
1.23	Aggregate amount of payments to the parties included in item 1.2	73
1.24	Aggregate amount of loans to the parties included in item 1.10	-

1.25 Explanation necessary for an understanding of the transactions

Amounts in 1.23 are in relation to Directors' remuneration.

Non-cash financing and investing activities

2.1 Details of financing and investing transactions which have had a material effect on consolidated assets and liabilities but did not involve cash flows

Option Agreement : Cairns Territory Mineral Claim (Central) MCC 968
87,912 shares @ \$0.227
Refer to ASX notice dated 11 June 2009

2.2 Details of outlays made by other entities to establish or increase their share in projects in which the reporting entity has an interest

+ See chapter 19 for defined terms.

Financing facilities available

Add notes as necessary for an understanding of the position.

	Amount available \$A'000	Amount used \$A'000
3.1 Loan facilities	-	-
3.2 Credit standby arrangements	-	-

Estimated cash outflows for next quarter

	\$A'000
4.1 Exploration and evaluation	910
4.2 Development	-
Total	910

Reconciliation of cash

Reconciliation of cash at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts is as follows.

	Current quarter \$A'000	Previous quarter \$A'000
5.1 Cash on hand and at bank	17	52
5.2 Deposits at call	594	850
5.3 Bank overdraft	-	-
5.4 Other (provide details)	-	-
Total: cash at end of quarter (item 1.22)	611	902

Changes in interests in mining tenements

	Tenement reference	Nature of interest (note (2))	Interest at beginning of quarter	Interest at end of quarter
6.1 Interests in mining tenements relinquished, reduced or lapsed	-	-	-	-
6.2 Interests in mining tenements acquired or increased	EL26920	Direct	0%	100%
	E45/2783	Contractual	0%	100%

+ See chapter 19 for defined terms.

For personal use only

Appendix 5B
Mining exploration entity quarterly report

Issued and quoted securities at end of current quarter

Description includes rate of interest and any redemption or conversion rights together with prices and dates.

	Total number	Number quoted	Issue price per security (see note 3) (cents)	Amount paid up per security (see note 3) (cents)
7.1 Preference +securities <i>(description)</i>				
7.2 Changes during quarter				
(a) Increases through issues				
(b) Decreases through returns of capital, buy-backs, redemptions				
7.3 +Ordinary securities	50,710,297	49,410,297		
7.4 Changes during quarter				
(a) Increases through issues	250 87,912	250 87,912	\$0.25 \$0.227	\$0.25 \$0.227
(b) Decreases through returns of capital, buy-backs				
(c) Release from escrow				
7.5 +Convertible debt securities <i>(description)</i>				
7.6 Changes during quarter				
(a) Increases through issues				
(b) Decreases through securities matured, converted				
7.7 Options <i>(description and conversion factor)</i>	23,107,732 500,000	23,007,732	<i>Exercise price</i> \$0.25 \$0.55	<i>Expiry date</i> 31/12/2009 30/03/2011
7.8 Issued during quarter				
7.9 Exercised during quarter	250	250	\$0.25	
7.10 Expired during quarter				
7.11 Debentures <i>(totals only)</i>				
7.12 Unsecured notes <i>(totals only)</i>				

+ See chapter 19 for defined terms.

For personal use only

