



ู่ July 2009 Diversified Near Term Uranium Production Company Capital Structure

- 78,202,499 shares on issue
- Currently 1,992 shareholders
- 57% of issued capital held by top 20 shareholders
- Currently capitalised at AUD\$24 million
- Current cash AUD\$11.5 million (+ AUD\$6 million expenditure from Sinosteel)

#### 12 month share price



Pepinnin

mingral Limiter



### Corporate



Norman Kennedy Chairman & Managing Director Exploration Geologist for over 30 years



Christopher Lambert Non-executive Director London based financial background



**Rebecca Holland-Kennedy Executive Director & Company Secretary** Administration and Exploration Geologist for over 30 years



Albert Harris Non-executive Director Management of Petroleum and Exploration Industry companies for over 55 years

### Management

Phil Clifford	Exploration Manager
	Ex Rio-Tinto
Dr Lachlan Rutherford	Exploration Manager – Musgrave SA
	Ex Primary Industries & Resources SA
Gary Ferris	Exploration Manager – Queensland
	Ex Primary Industries & Resources SA
Colin Skidmore	Exploration Manager Uranium & New Projects
	Ex Uranium One (Honeymoon)



# 43 exploration tenements covering 17,000 sq.kms.

### Uranium Projects Summary

- Advanced South Australian uranium project targeting production for 2011
- 19.8mlb U<sub>3</sub>0<sub>8</sub> JORC Compliant Inferred Resource
- Strategic alliance with Sinosteel Corporation to jointly develop the Uranium Project at Crocker Well
- 26 known primary uranium prospects ready to drill for potential additional U<sub>3</sub>0<sub>8</sub> Resource
  - Large portfolio of Queensland exploration tenements prospective for uranium

## Queensland Uranium Projects



100% interest in 25 Tenements 2,975 sq.kms

The tenements are prospective for gold, copper, base metals, uranium, phosphate and potash

### North Queensland Project

### **Uranium Targets**

Uranium occurrences which have been inadequately tested by previous explorers and favorable geological settings for uranium mineralisation have been identified in 15 tenements

Principal targets are hard rock volcanic type deposits similar to the nearby Maureen and Ben Lomond Uranium Deposits. Ben Lomond represents one of the highest value per tonne uranium resources in Australia with an average grade of  $0.25\% U_3O_8$  and molybdenum credits of 0.15%

Uranium enriched phosphate prospects have also been identified with P<sub>2</sub>O<sub>5</sub> grades of 22% and U<sub>3</sub>O<sub>8</sub> of 0.42%

### Crocker Well Uranium Project South Australia

Curnamona Province Project (40% PepinNini 60% Sinosteel Corporation)

Advanced Uranium Project – Crocker Well

- Strategic alliance with Sinosteel Corporation to jointly develop the Uranium Project
- Aim to be in production in 2011
- More than AUD\$14million already committed to the completion of a Bankable Feasibility Study
- Close to established transport corridor currently used by the Beverley Uranium Mine
- 26 additional known uranium prospects to be investigated



5 Tenements covering 3,778 sq kms

### JORC Resource Crocker Well and Mt Victoria Deposits (estimated by Hellman & Schofield September, 2005)

 Category
 Pounds (U<sub>3</sub>O<sub>8</sub>)
 Tonnes (U<sub>3</sub>O<sub>8</sub>)
 Cut-off Grade
 Ave. Grade

 Inferred
 19,800,000 lbs
 8,981 tonnes
 250ppm
 447ppm

 Inferred
 14,850,000 lbs
 6,736 tonnes
 300ppm
 529ppm



Current drilling program designed to upgrade sufficient Inferred Resource to Indicated or Measured status to allow production of <u>300tpa</u> to <u>400tpa</u> U<sub>3</sub>O<sub>8</sub> for approximately 7 years



Uranium hosted by exotic sodic peraluminous granitoids generated by anatexis during high grade metamorphism of alkaline volcano-sedimentary rocks.

Surrounding rocks are regional potassic granites and older more mafic granitoids.

Uranium mineralisation is coarse grained Thorian Brannerite.

Dominant alteration is F-bearing phlogophite.

**Developed in mechanically induced fractures** and breccias during sub-solidus cooling.

STREAM STREAM

More than 220 boreholes completed in 2008 for resource verification.

An additional 77 boreholes completed in 2009.



Field Camp at Crocker Well



Ministerial Visit 20<sup>th</sup> January, 2009





### Recent Developments

Lodgement of a Referral under the Commonwealth Government Environment Protection and Biodiversity Conservation Act for the development of a uranium mine at Crocker Well (August, 2008)

 Submission of an application for a Mining Lease at Crocker Well – (September, 2008)

Consultation with the traditional owners, government, pastoralists and the local community is progressing

Subject to approvals, construction, commissioning and operation is scheduled for 2010 and 2011



### **Crocker Well**

Bankable Feasibility Study

Resource Validation



Mining



Metallurgical testing **Gamdel** MINERAL LABORATORIES

**Regulatory Approvals and EIS** 





BFS BATEMAN - process plants that work



### **Preliminary Pit Optimisation**



### **Current Proposed Processing Plant Layout**

	2007	007 200				2		009			2010			2011			
	<b>Q4</b>	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Resource Verification (+Infill Drilling)																	
Test Work																	
Pilot Plant								Unschei	duled								
Concept Evaluation and Baseline		Concept	t			Baselin	e										
MARP and Permits/Licences								Proposa	ıl	MARP		Permits					
Mine Plan																	
Bankable Feasibility Study (BFS)																	
Project Assessment																	
Detailed Design																	
EPCM Contract																	
Construction																	
Commissioning and Begin Operation																	

**Crocker Well - Project Schedule** 



• 26 additional known primary uranium prospects other than Crocker Well and Mt Victoria

• Potential for intrusion related, unconformity and palaeo-channel sandstone uranium deposits









#### Disclaimer:

- The information in this presentation is published to inform you about PepinNini Minerals Limited and its activities. All reasonable effort has been made to provide accurate information, but we do not warrant or represent its accuracy and we reserve the right to make changes to it at any time without notice.
- To the extent permitted by law, PepinNini Minerals Limited accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Readers are advised to consult a stockbroker or professional adviser before making any investment decisions.
- The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Norman Kennedy BSc MAusIMM. Norman Kennedy is the Managing Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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". Norman Kennedy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears

