



**QUARTERLY REPORT**  
ASX Announcement

ASX CODE: RUM

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**DIRECTORS**

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**MAJOR PROJECTS**

Ammaroo Rock Phosphate  
Karinga Lakes Sulphate of Potash

## QUARTERLY ACTIVITIES REPORT PERIOD ENDED 31 DECEMBER 2015

Rum Jungle Resources (RUM) strategic intent is to create shareholder value through the discovery, development and operation of fertiliser and industrial mineral projects, located in close proximity to existing transport infrastructure, focused on the Northern Territory of Australia.

### CORPORATE SUMMARY

- The company's current primary focus is the development of a small scale, low capital start-up to generate an operating cash flow. As such, the Karinga Lakes project is being advanced through pre-feasibility
- Rum Jungle Resources was one of the small numbers of resources companies that were featured at the Northern Australia Investment Forum that was hosted by the Australian Federal Government in Darwin in November 2015. A significant number of potential investor companies from various parts of the world were present
- Engagement with a number of regional fertiliser industry and financial entities continues with an aim to secure cornerstone project level investment, joint ventures and/or offtake to support the global scale Ammaroo Phosphate project or the evolution of the SOP portfolio of projects
- Cash Balance \$2.4 million (including secured Term Deposits of \$350k)

### HEALTH, SAFETY, ENVIRONMENT AND COMMUNITY

- 1,390 field hours were worked at Karinga and Ammaroo and there were no reportable incidents

### SULPHATE OF POTASH

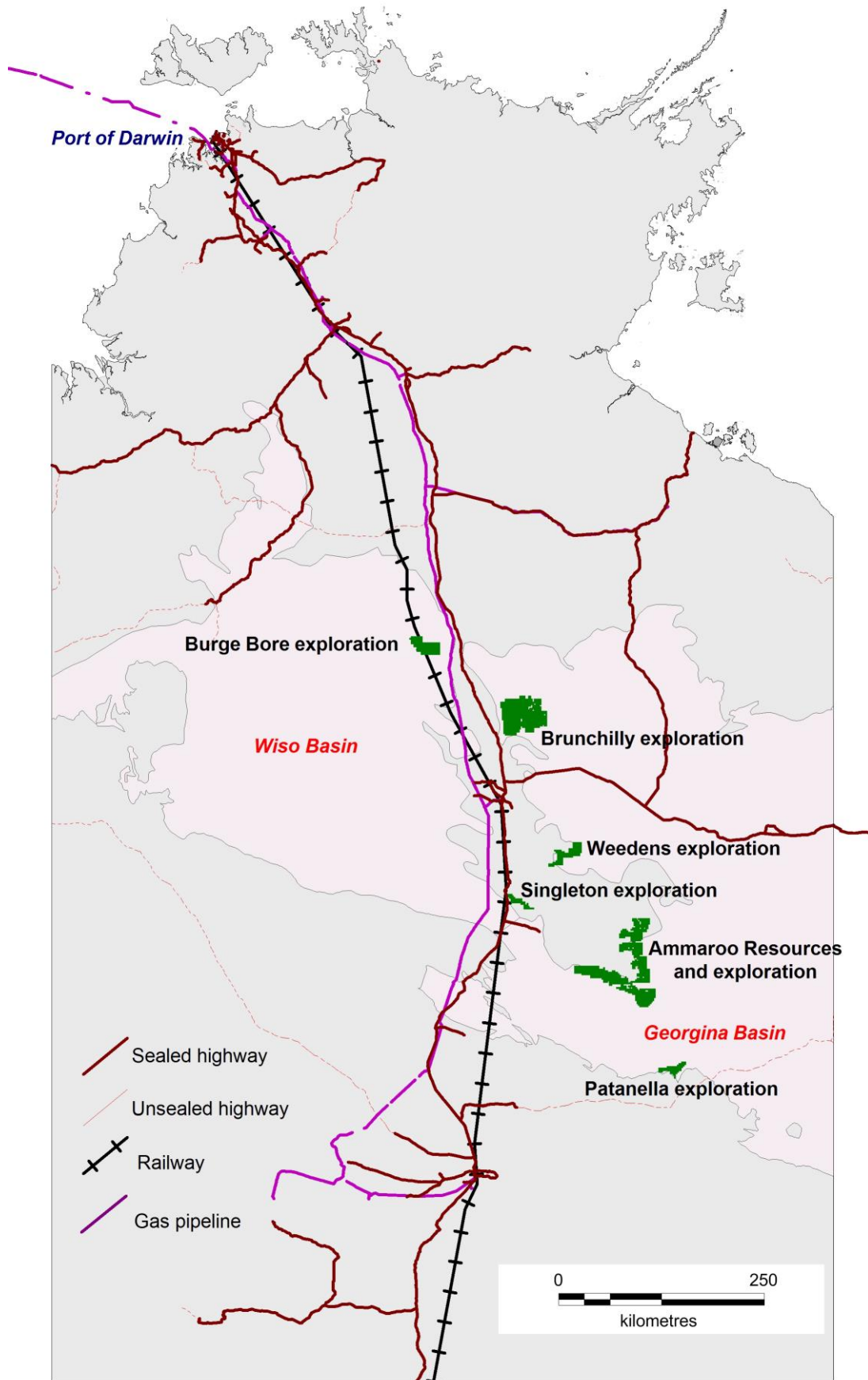
- An MOU regarding potential future SOP off take was completed with a major Japanese Trading House as announced to the ASX on 9 December 2015
- GHD and Norwest Corporation commenced a pre-feasibility study (PFS) of the Karinga Lakes SOP Project as announced to the ASX on 20 November 2015
- A 2,000 litre evaporation trial of Karinga brine in Alice Springs is on-going. It will provide potassium salts for the next stage of process test-work for the PFS
- Eleven deeper RC holes for 1,574 m were drilled at Karinga Lakes during November in order to provide a better understanding of maximum brine depths within a small footprint. This will inform the PFS and provide a modest increase in the in-situ brine resource. The results were released after the Quarter on 19 January 2016 and work on a resource upgrade is currently being undertaken
- The first meeting with the Traditional Owners of the Lake Amadeus project was conducted during October 2015. Lake Amadeus is located on Aboriginal Land and therefore the Aboriginal Land Rights Act applies (the Native Title Act applies to the majority of RUM's other projects). Discussions were positive and second meeting is scheduled for March 2015. Lake Amadeus is the largest salt lake in the Central Australian Ground Water discharge zone. It is 130 km long and covers an area of more than 1,000km<sup>2</sup>. Lake Amadeus has the potential, subject to Traditional Owner support and evaluation of the brine resources, to be a very significant sulphate of potash resource in the course of time.

- After a meeting in July 2015, the Traditional Owners of the Northern Territory side of the Lake MacDonald project have instructed the Central Land Council to negotiate an agreement, under the Aboriginal Land Rights Act, with Rum Jungle Resources. This agreement negotiation process is expected to take several months to complete. According to Geosciences Australia, Lake MacDonald, located on the WA/NT border, is potentially prospective for both potassium and lithium in brines.
- After a meeting in October 2015, the Adnyamathanha Traditional Lands Association (ATLA), traditional owners of the Lake Frome area, have agreed to negotiate an exploration agreement with Rum Jungle Resources. Lake Frome is a large salt lake located in South Australia, proximate to gas and transport infrastructure and the horticultural areas of western NSW and Victoria. According to Geosciences Australia and the South Australian Government, areas of Lake Frome are potentially prospective for both potassium and lithium in brines. It is expected that the exploration agreement with ATLA will be completed during Q1 2016.
- The process of amalgamating all potash titles into a single company, Territory Potash Pty Ltd, continued during the Quarter

#### **SILICA (HIGH PURITY QUARTZ)**

- Initial processing test work results were released to the ASX on 23 October 2015. The test work was inconclusive and more work is required to determine whether or not an IOTA standard HPQ product can be produced
- The next step is to conduct an initial drilling program over the resource to understand its chemical distribution and conduct a second round of processing test-work on a representative sample from the ore body
- Sacred site clearance certificates for the Dingo Hole silica project are pending and will enable drilling to be conducted
- Several new Northern Territory exploration applications for silica were lodged during the Quarter and desk-top evaluations are underway

## PHOSPHATE PROJECTS



Phosphate projects in the Georgina and Wiso Basins (shown in pink) in relation to transport infrastructure and gas pipelines.

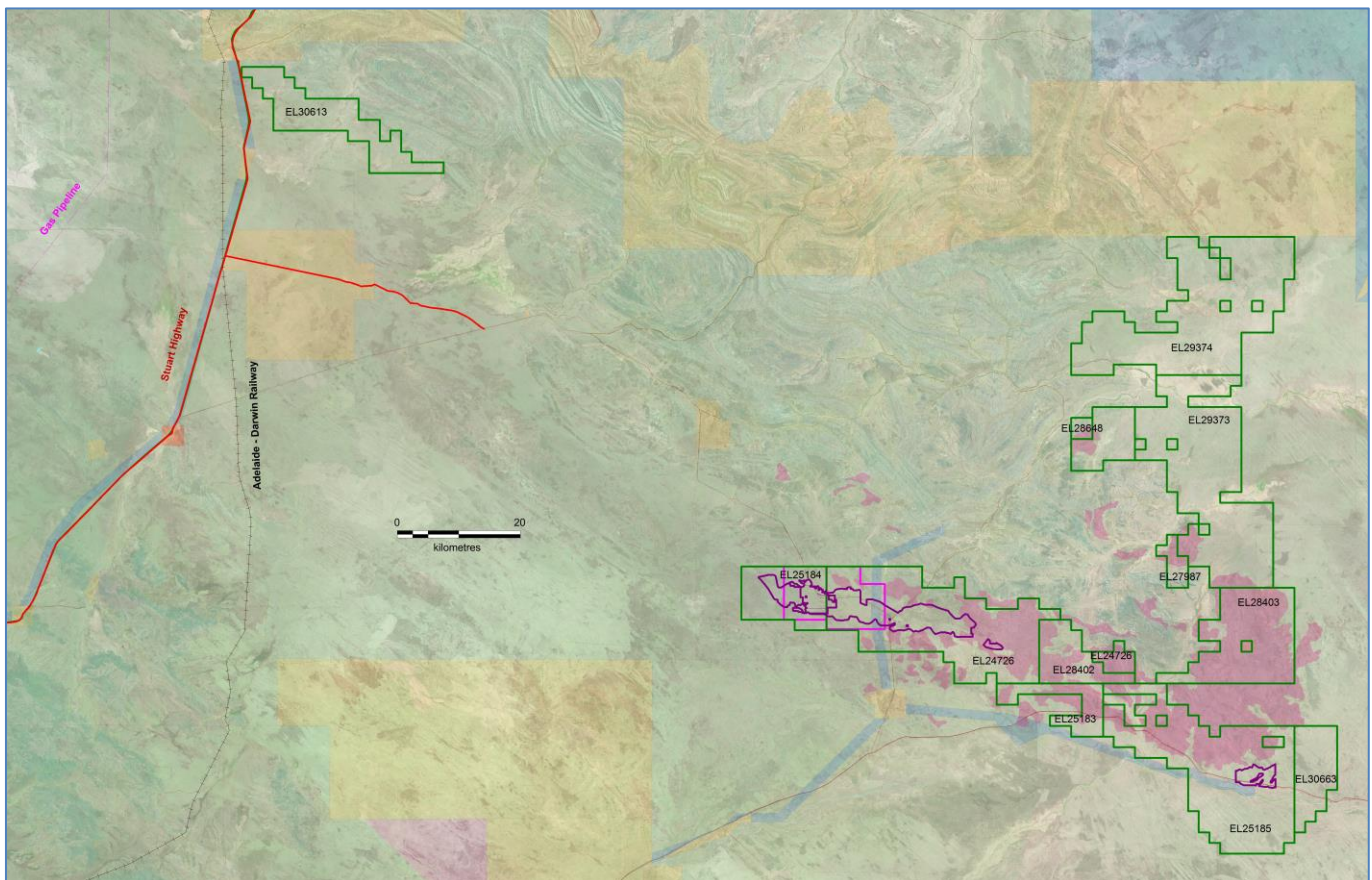
## AMMAROO PHOSPHATE PROJECT, NT

The Ammaroo Phosphate Project is located 200 km southeast of Tennant Creek. The project area contains the Ammaroo and Ammaroo South JORC Resources, the untested Rockhole phosphate prospect and significant greenfields potential in the northeast. The Ammaroo prefeasibility study was completed and the findings announced to the ASX in 2014.

### Project Tenements

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
EL 24726	501.54	157	1/04/2008	31/03/2016	Territory Phosphate
EL 25183	76.58	24	19/04/2007	18/04/2017	Territory Phosphate
EL 25184	137.40	43	19/04/2007	18/04/2017	Territory Phosphate
EL 25185	481.62	151	19/04/2007	18/04/2017	Territory Phosphate
EL 27987	28.77	9	27/10/2010	26/10/2016	Territory Phosphate
EL 28402	99.02	31	20/06/2011	19/06/2017	Territory Phosphate
EL 28403	245.99	77	20/06/2011	19/06/2017	Territory Phosphate
EL 28648	12.81	4	25/10/2011	24/10/2017	Territory Phosphate
EL 29373	483.13	151	14/09/2012	13/09/2018	Territory Phosphate
EL 29374	503.24	157	14/09/2012	13/09/2018	Territory Phosphate
EL 30520	86.42	27	01/04/2008	31/03/2016	Territory Phosphate
EL 30663	105.25	33	31/07/2015	30/07/2021	Territory Phosphate
MLA 29463	6,375 hectares	na	application 30/03/2012	30 years from grant	Territory Phosphate
MLA 29854	9,074 hectares	na	application 14/02/2013	25 years from grant	Territory Phosphate

Ammaroo phosphate titles.



Tenement status as of 31 December 2015. Outcrop of Arthur Creek Formation in red. JORC resources outlined in purple.

## SINGLETON PHOSPHATE PROJECT, NT

EL 30613, close to the railway as shown in the figure above, covers potentially prospective rocks which were intersected in waterbores. Rum Jungle Resources undertook a detailed study of all available information on 14 waterbores and gamma logs in and near Singleton EL 30613. This led to the conclusion that the southeastern half of the title is the most prospective for Cambrian phosphate. Access is good and the area could be drill tested with only a few holes.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
EL 30613	179.86	56	15/06/2015	14/06/2021	Territory Phosphate

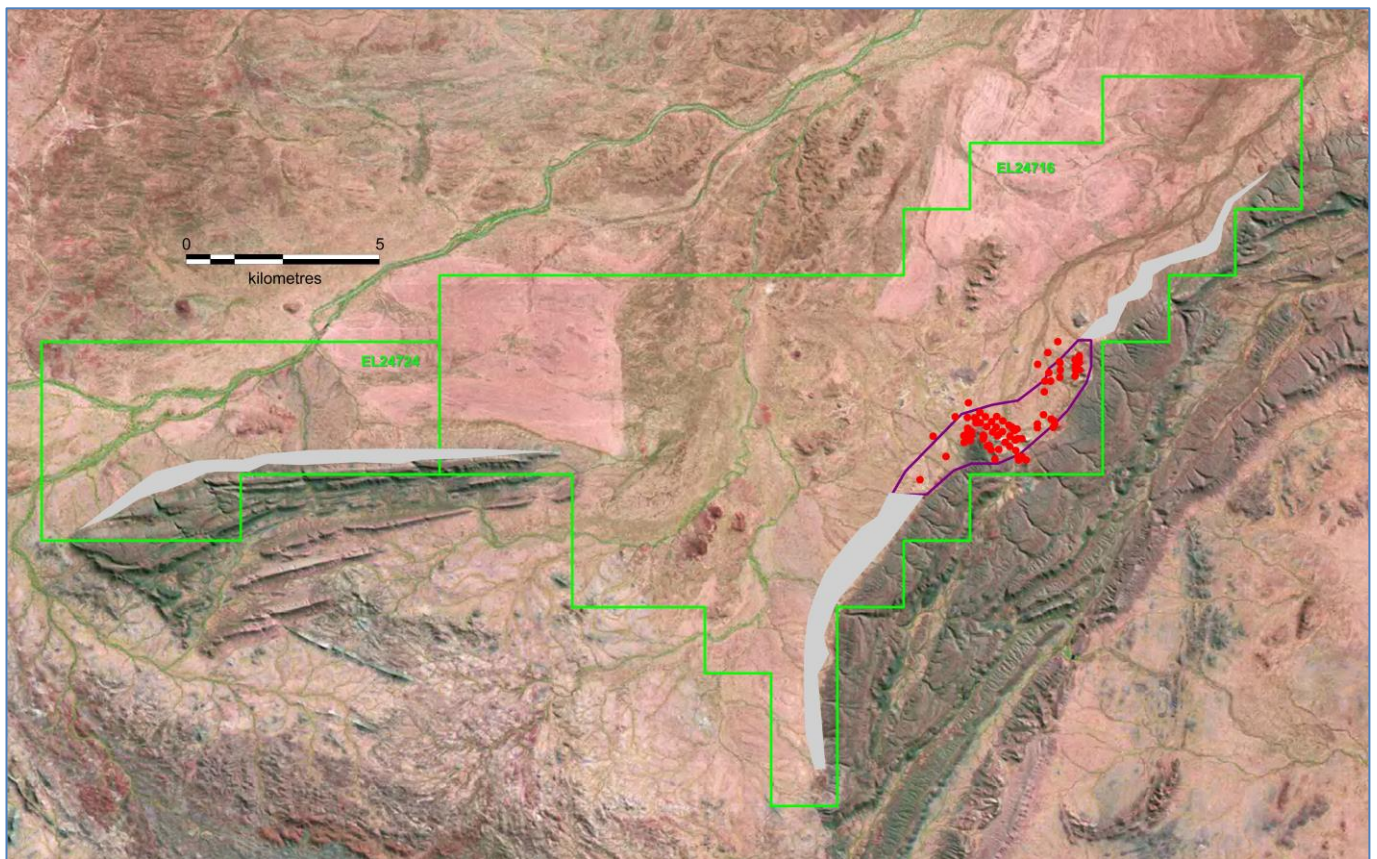
Singleton EL.

## PATANELLA PHOSPHATE PROJECT, NT

This project, formerly called Lucy Creek, on the southern margin of the Georgina Basin contains the Patanella Prospect of approximately 50 Mt and 100 Mt at 10% to 17% P<sub>2</sub>O<sub>5</sub> at a cut-off grade of 5% P<sub>2</sub>O<sub>5</sub> or approximately 20 Mt to 50 Mt at 15% to 20% P<sub>2</sub>O<sub>5</sub> at a cut-off grade of 10% P<sub>2</sub>O<sub>5</sub>. Tenement renewals are pending at DME. There was no on-ground work this Quarter.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
EL 24716	187.11	59	01/12/2005	30/11/2015	Territory Phosphate
EL 24724	47.57	15	02/12/2005	01/12/2015	Territory Phosphate

Patanella ELs. Renewals pending at DME.



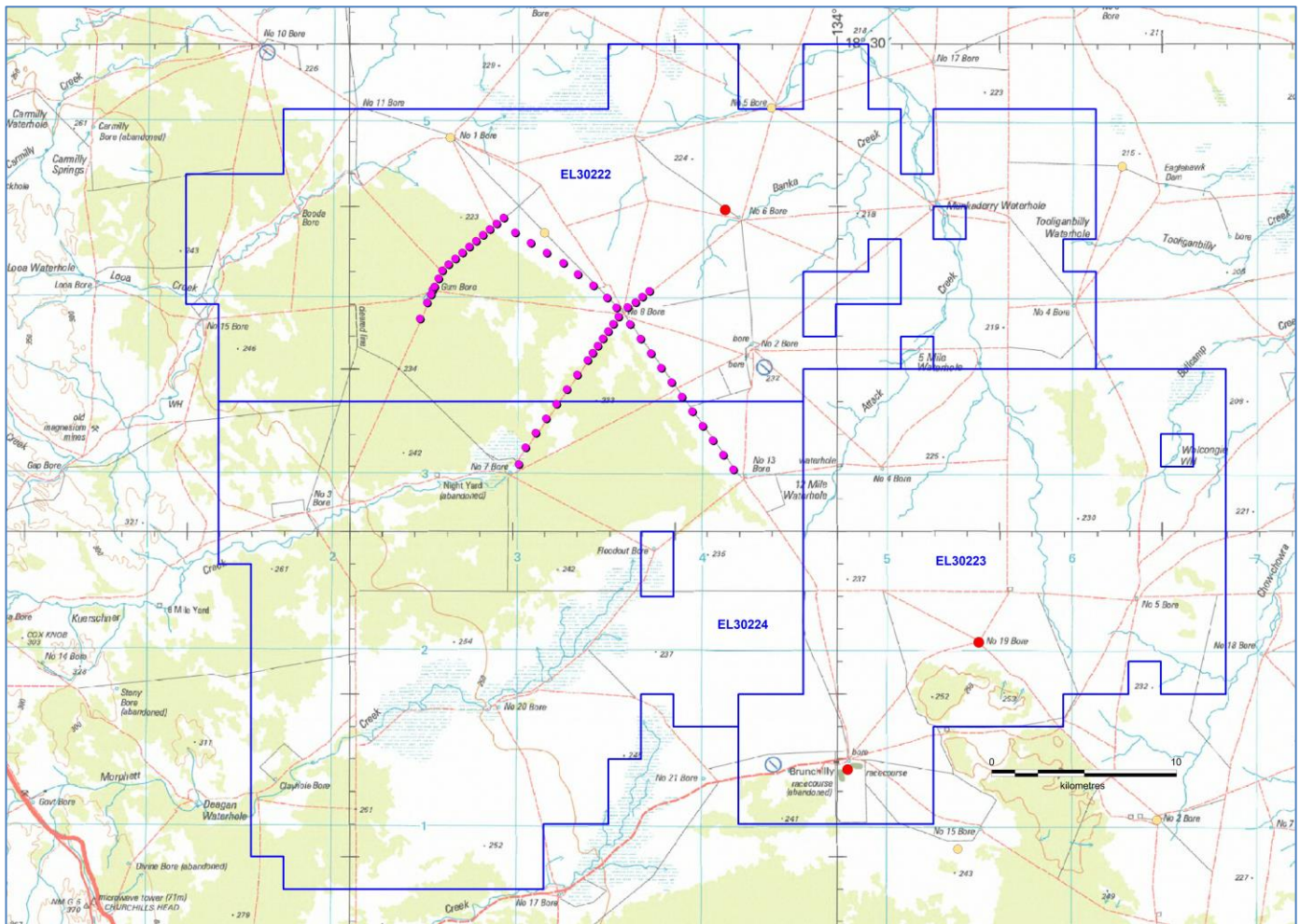
Patanella phosphate titles as of 31 December. Patanella Prospect Exploration Target outlined in purple, existing drillholes as red dots and the prospective interval in grey.

## BRUNCHILLY PHOSPHATE PROJECT, NT

The Brunchilly Project consists of three contiguous phosphate ELs near Tennant Creek. Depth to basement geophysical modelling, waterbores, soil sampling, and previous phosphate drilling all indicate prospectivity. There has only been wide-spaced drilling by Vale over part of the area. Group reporting has been approved and a proposed drilling program of ca 50 holes and budget has been prepared. There was no on-ground work this Quarter.

Tenement	Area km <sup>2</sup>	Blocks	Grant Date	Expiry	Holder
EL 30222	768.25	236	15/10/2014	14/10/2020	Territory Phosphate
EL 30223	507.24	156	15/10/2014	14/10/2020	Territory Phosphate
EL 30224	718.44	221	15/10/2014	14/10/2020	Territory Phosphate

Brunchilly phosphate titles after recent reductions.



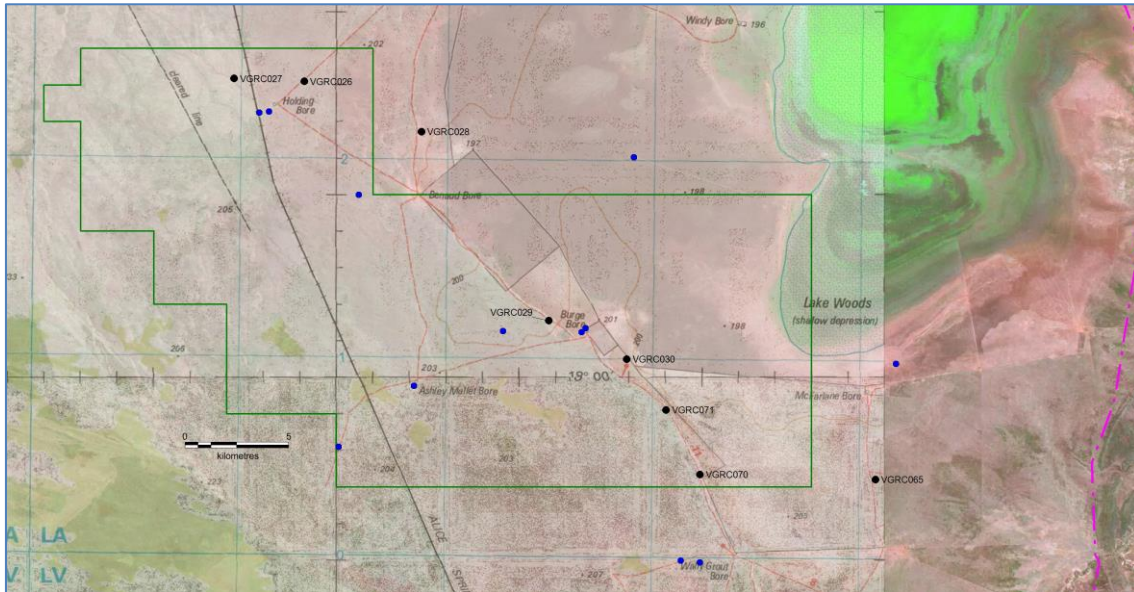
Brunchilly Project area showing waterbores rated as highly prospective for phosphate by CSIRO/Vale (red) and moderately prospective (yellow). Minemakers' soil sampling in pink.

## BURGE BORE PHOSPHATE PROJECT, NT

This is a single EL that straddles the Central Australian Railway. Waterbore intercepts of phosphate indicate prospectivity and the MIRA depth to basement modelling indicates a favourable setting straddling a basement ridge. The grant of Rum Jungle Resources’ application was delayed for over 12 months while NT Department of Mines and Energy sought advice from the Department of Land Resources Management regarding the Lake Woods Conservation Covenant which makes Lake Woods and the surrounds a Site of Conservation Significance. This only impinges on the east of the EL. An in-house waterbore study has confirmed that any phosphate present is likely to be above the watertable over a significant part of the EL. There was no on-ground work this Quarter.

Tenement	Area km <sup>2</sup>	Blocks	Grant Date	Expiry	Holder
EL 30225	532.55	163	15/05/2015	14/05/2021	Territory Phosphate

**Burge Bore phosphate title.**



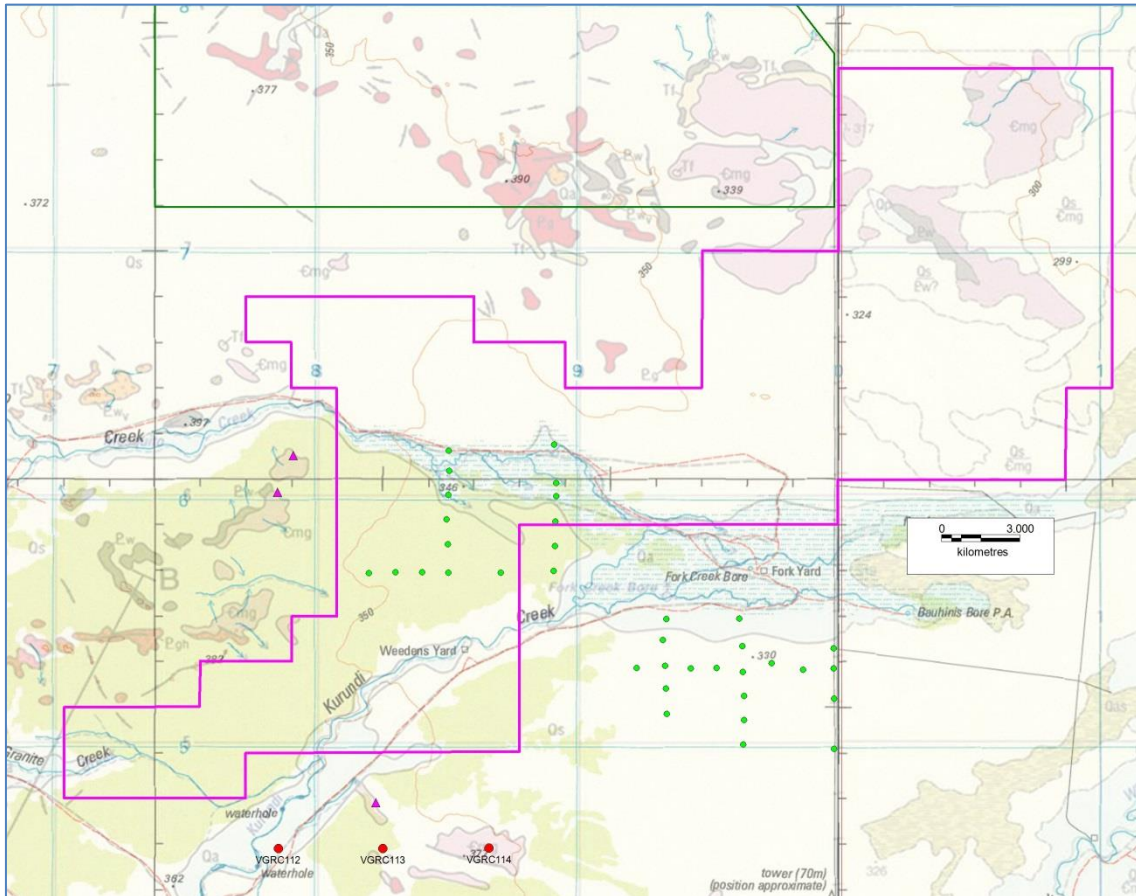
**Burge Bore EL 30225 showing waterbores used in the recent in-house study as blue dots. The previous widely-spaced Vale holes are labelled black dots. Note the proximity to the railway and gas pipeline (purple). The maximum extent of inundation of Lake Woods is much larger than shown on this topo/satellite image, extending to Burge Bore itself.**

## WEEDENS PHOSPHATE, NT

EL 30672 is held based on previous exploration in the mid 1990s for under-cover Tennant Creek IOCG which showed that the Cambrian section is at least 60 m thick. The ground has only been held once previously for phosphate exploration, by Vale from 2010 to 2012. They drilled only three holes to 59 m max, 5 km apart, all south of this application. Vale was side-tracked by iron in the south of their former tenement package and suddenly withdrew NT-wide without testing the area now applied for. There was no on-ground work by Territory Phosphate this Quarter.

Tenement	Area km <sup>2</sup>	Blocks	Grant Date	Expiry	Holder
EL 30672	447.96	139	15/05/2015	14/05/2021	Territory Phosphate

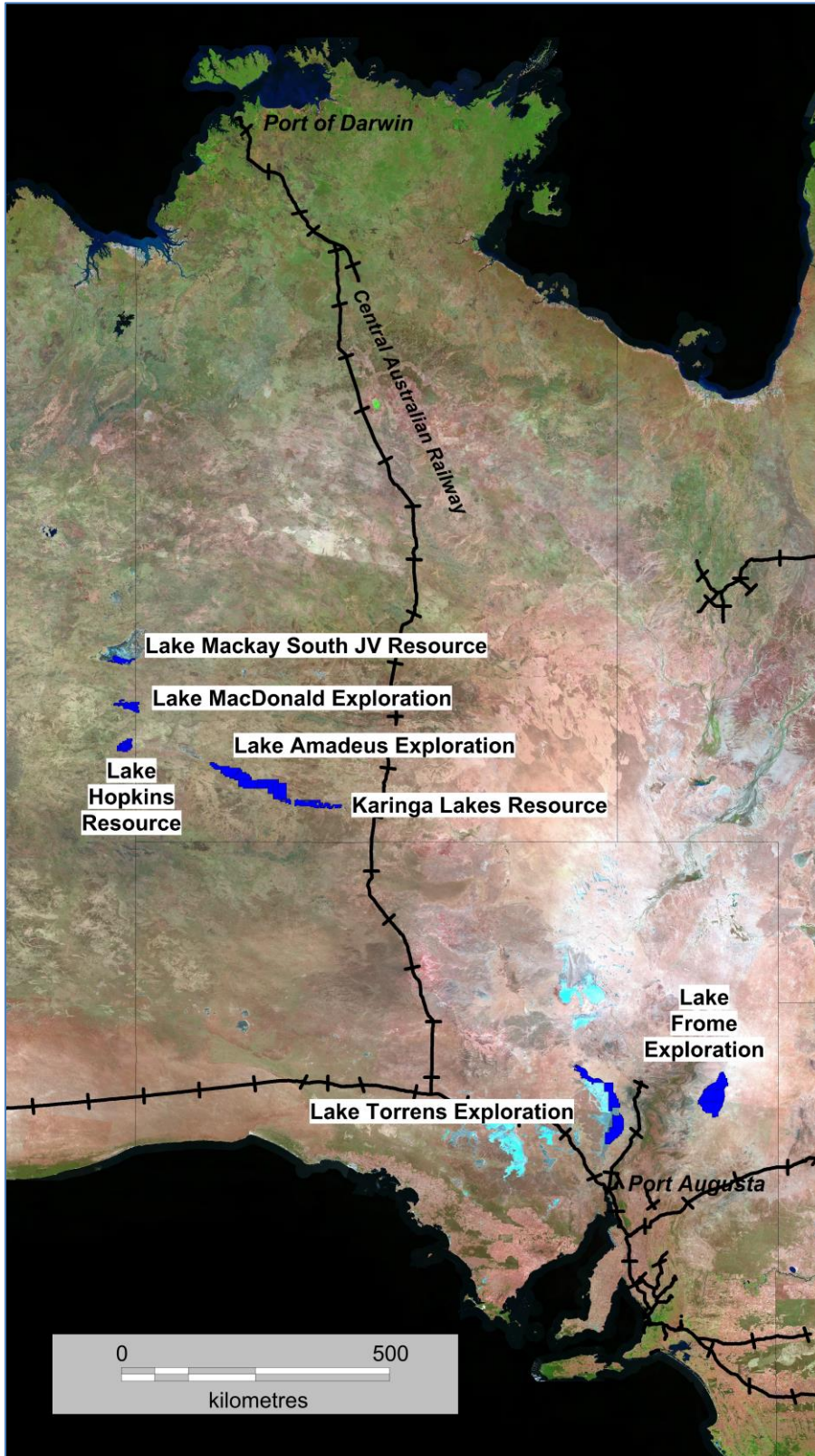
Weedens phosphate title.



Weedens Phosphate EL 30672. Green dots are historical percussion holes targeted on basement IOCG. They intersected prospective Cambrian stratigraphy but were not tested for phosphate. Red dots are Vale holes, 5 km apart. Pink triangles are Vale rock chip samples. The pink outcrops labelled Cmg are the few outcrops of target formation, which is otherwise under shallow surficial cover, superimposed on the topographic map. Pg is unprospective granite basement.



## SULPHATE OF POTASH PROJECTS



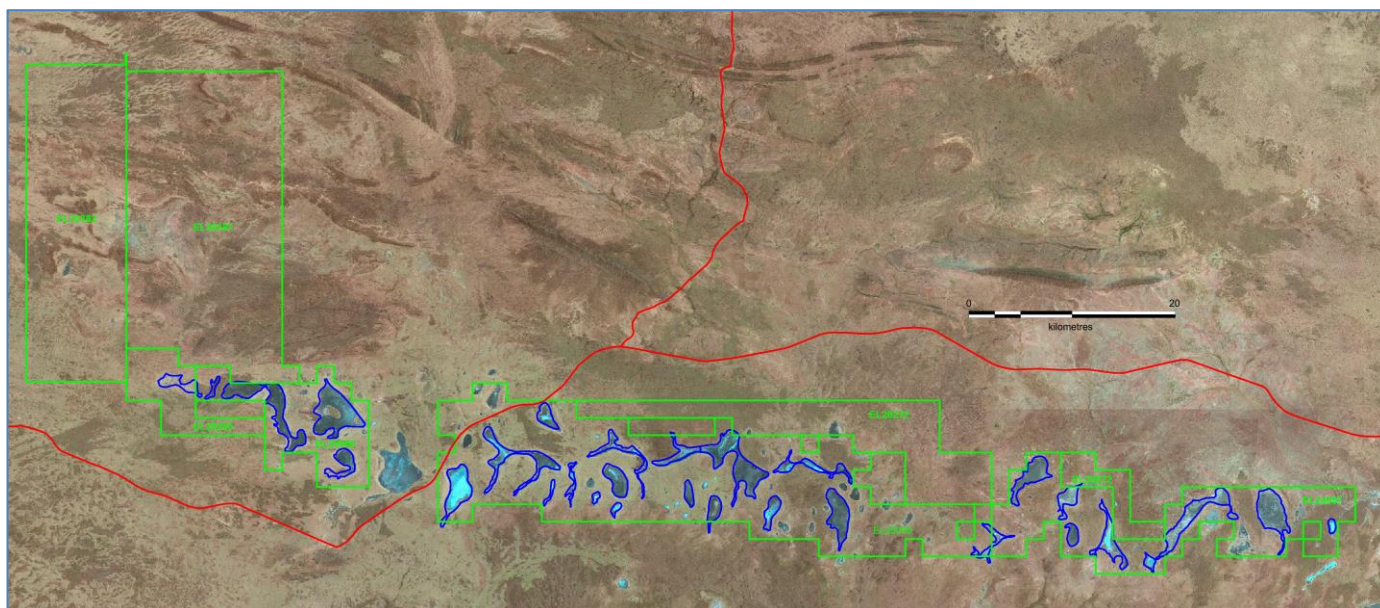
Rum Jungle Resources' potash projects and Lake Mackay JV. Not all titles are granted yet.

## KARINGA LAKES POTASH PROJECT, NT

The Karinga Lakes Potash project is located along the Lasseter Highway between Alice Springs and Uluru. The project contains a chain of dozens of dry salt lakes. The lake sediments and the underlying rocks contain potassium-rich brines, some of which are being fed from the Central Australian Groundwater Discharge Zone. The brines can be processed through solar evaporation and flotation to produce potash fertiliser minerals.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
EL 24987	220.37	71	10/10/2006	09/10/2016	RUM
EL 25080	633.58	204	09/10/2006	08/10/2016	RUM
EL 28272	164.61	53	14/04/2011	13/04/2017	RUM
EL 28205	59.04	19	09/03/2011	08/03/2017	RUM
EL 28872	34.15	11	06/03/2012	05/03/2018	RUM
EL 30381	479.18	154	16/03/2015	15/03/2021	RUM
EL 30382	330.14	114	16/03/2015	15/03/2021	RUM

Karinga Lakes potash titles.



Karinga titles as of 31 December 2015. JORC resource outlined in blue.

### Resource

The most recent JORC 2012 Resource was released to the market on 20 February 2014 and has not changed since.

Resource Category	Potassium (tonnes)	K <sub>2</sub> SO <sub>4</sub> (tonnes)	Schoenite (tonnes)
Measured	2,600,000	5,800,000	13,000,000
Indicated	210,000	460,000	1,100,000
Inferred	950,000	2,100,000	4,900,000
<b>Total</b>	<b>3,800,000</b>	<b>8,400,000</b>	<b>19,000,000</b>

Karinga Lakes Brine Resource (entries have been rounded).

The sulphate of potash tonnage represents the in-situ brine with no recovery factor applied. It will not be possible to extract all of the contained brine by pumping of trenches; the amount which can be extracted depends on many factors including the permeability of the sediments, the drainable porosity, and the recharge dynamics of the aquifers.

### Deep Drilling

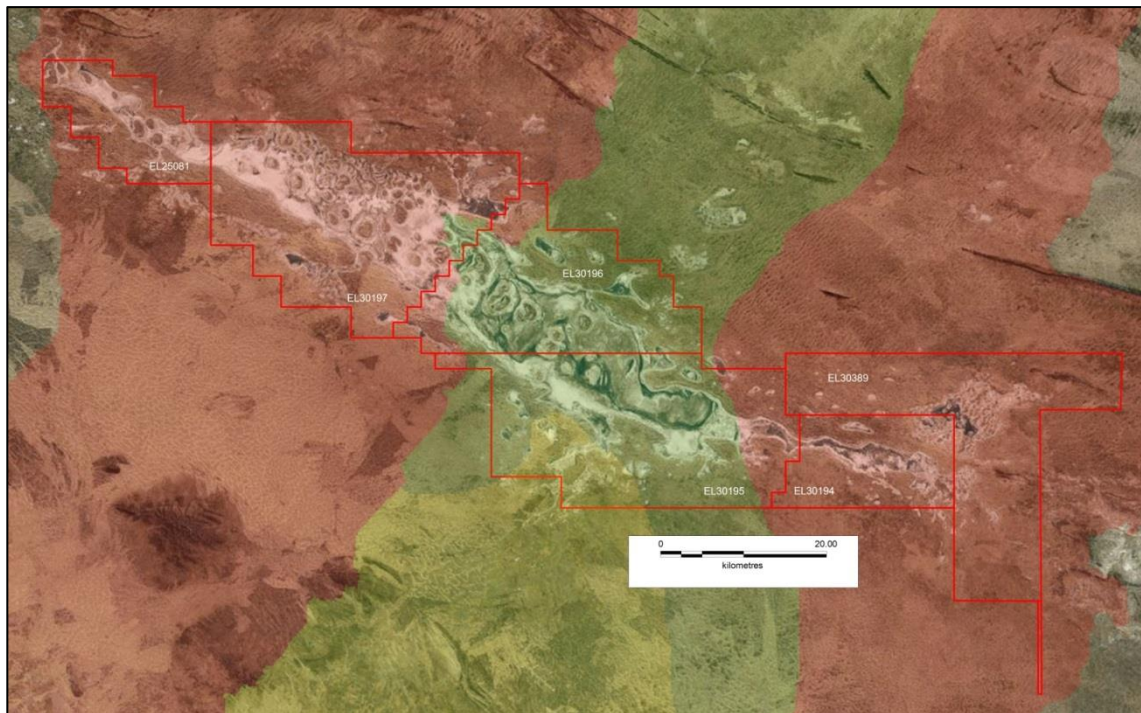
During November, eleven deeper RC holes were drilled on the edges of selected salt lakes in the Karinga SOP project area and the results were announced to the ASX on 19 January 2016. Previous drilling had targeted only the top 12-30 m. Five of the deeper holes successfully flowed brines from depths greater than 30 m with four of the five holes flowing brines with potassium levels typical of the existing SOP resource. A number of SOP grades exceeded 12,000 mg per litre of brine (equates to more than 12 kg/m<sup>3</sup> SOP). It is anticipated that this recent drilling data will enable a modest increase in the potash brine resource. The results of this limited program provide additional information to support the preliminary feasibility study for a small scale start up. The preliminary feasibility study was commenced in late 2015.

## LAKE AMADEUS POTASH PROJECT, NT

Six contiguous ELs applications cover all of Lake Amadeus in the NT. The applications include 1,010 km<sup>2</sup> of lake area along a 130 km length. The eastern boundary is contiguous with the Karinga Lakes Project and corresponds to the ALRA/pastoral boundary. All the Lake Amadeus applications are on ALRA land. A work program has been sent to the Central Land Council.

Tenement	Area km <sup>2</sup>	Blocks	Application Date	Holder
ELA 30194	218.00	70	05/12/2013-	RUM
ELA 30195	622.88	200	05/12/2013	RUM
ELA 30196	446.18	143	05/12/2013	RUM
ELA 30197	633.44	203	05/12/2013	RUM
ELA 30389	527.1	186	09/05/2014	RUM
ELA 30650	190.5	61	04/11/2014	RUM

Lake Amadeus potash titles.



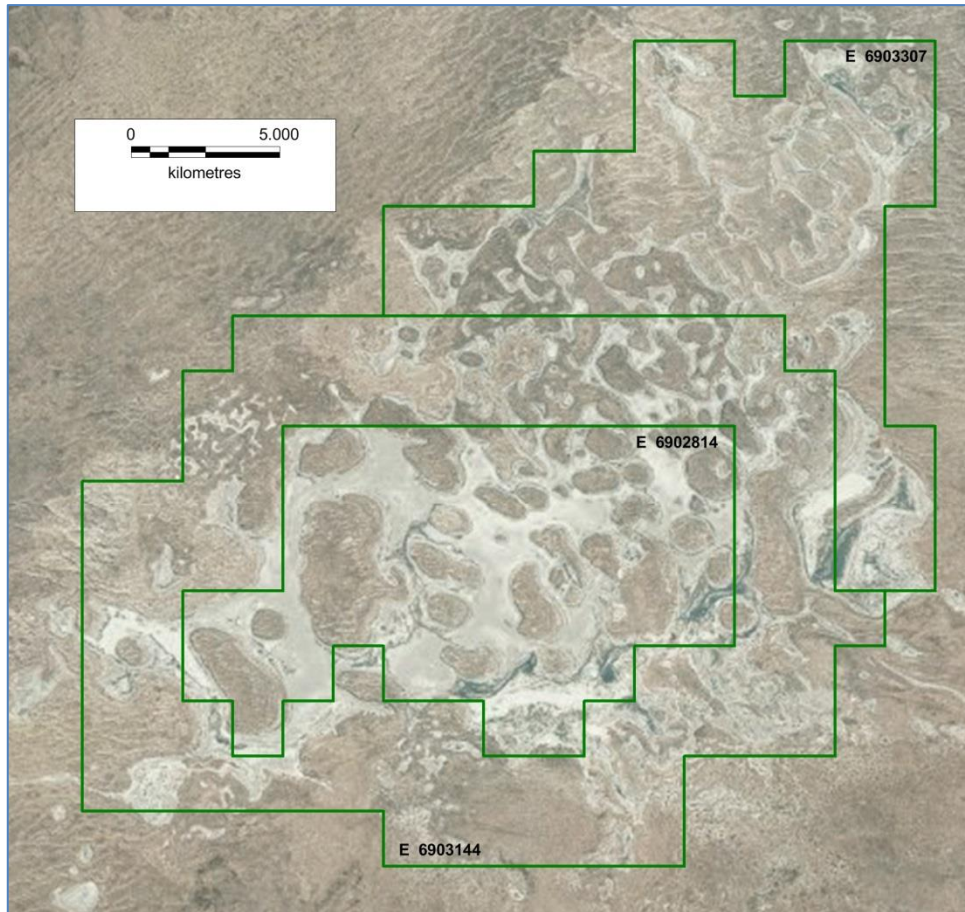
Six contiguous potash applications over Lake Amadeus. The red catchments are rated by GA as most prospective for potassium, followed by yellow and green.

## LAKE HOPKINS POTASH, WA

This project consists of three contiguous granted titles.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
E69/2814	153.5	49	06/07/2011	05/07/2016	RUM
E69/3144	256.8	82	11/11/2013	10/11/2018	RUM
E69/3307	150.5	48	09/03/2015	08/03/2020	RUM

Lake Hopkins potash titles.



All three titles over Lake Hopkins are now granted.

### Resource and Exploration Target

The Inferred JORC brine potash resource is 4.5 million tonnes K<sub>2</sub>SO<sub>4</sub> on E69/2814, which was announced 12 September 2014 and has not changed since.

Area (m <sup>2</sup> )	Average Thickness (m)	Bulk Volume (m <sup>3</sup> )	Porosity estimate	Brine Volume (m <sup>3</sup> )	Average Dissolved Potassium Concentration (kg/m <sup>3</sup> )	Potassium Tonnage (million tonnes) <sup>1</sup>	K <sub>2</sub> SO <sub>4</sub> Tonnage (million tonnes) <sup>1</sup>
85,910,000	18.7	1,606,438,647	0.40 (upper)	642,575,459	3.849	2.5	5.6
			0.33 (middle)	530,124,754		2.0	4.5
			0.26 (lower)	417,674,048		1.6	3.6

Notes: 1) Tonnage rounded to two significant figures

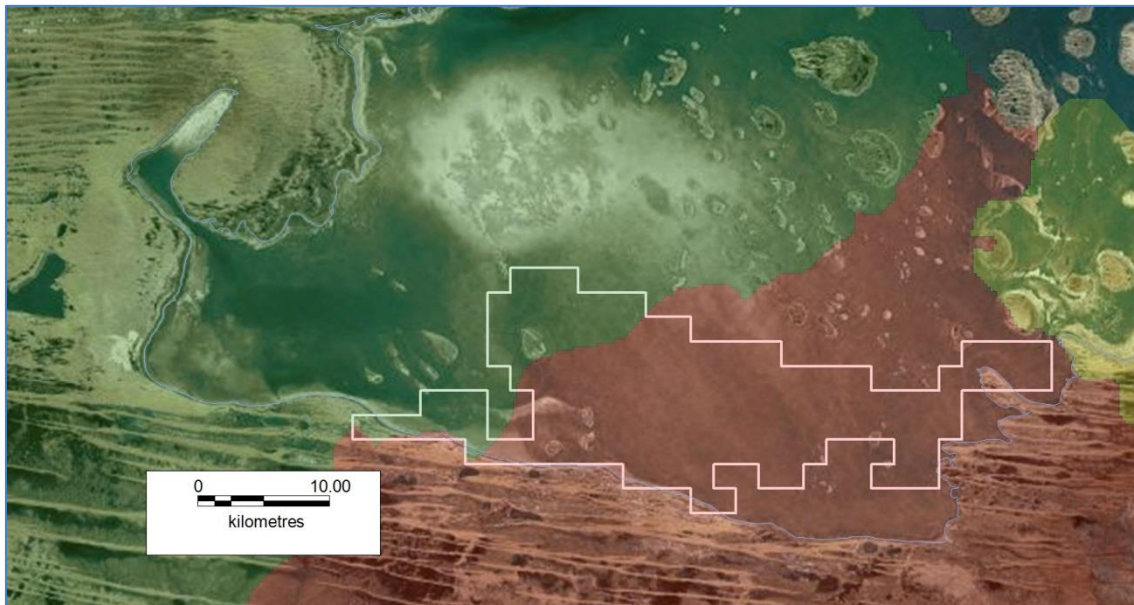
A brine exploration target for the immediate surrounding tenement E69/3144 has been estimated at 2.5 to 3.8 million tonnes K<sub>2</sub>SO<sub>4</sub>. It has not been extrapolated onto E69/3307.

## LAKE MACKAY POTASH, WA

The JV gives Rum Jungle Resources potash exploration rights to the southern part of Lake Mackay as held by a Toro Energy subsidiary. This includes all of E80/3486 and parts of E80/3484, 3485 and 3519. Rum Jungle Resources has now spent sufficient to earn 51% of the potash rights in the JV. There was no work during this Quarter.

Tenement	Blocks in JV	Grant	Expiry	Holder
E80/3484	35	16/05/2008	15/05/2017	Nova/Toro Energy Ltd
E80/3485	17	16/05/2008	15/05/2017	Nova/Toro Energy Ltd
E80/3486	69	16/05/2008	15/05/2017	Nova/Toro Energy Ltd
E80/3519	12	16/05/2008	15/05/2017	Nova/Toro Energy Ltd

Lake Mackay JV titles.



Lake Mackay JV area. The red catchments are rated as most prospective for potassium, followed by yellow and green.

### Resource

A JORC brine potash resource of 13 million tonnes  $K_2SO_4$  was announced for the Lake Mackay South Potash Project on 09/09/2014 and has not changed since.

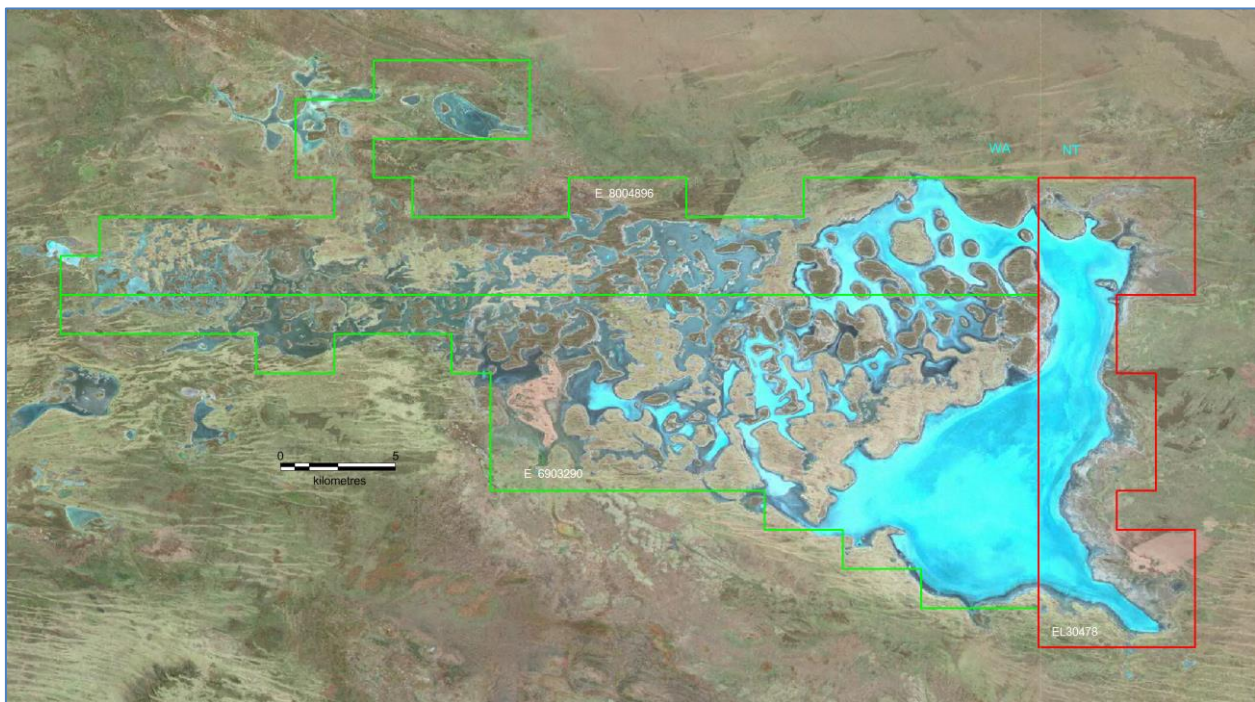
## LAKE MACDONALD POTASH, WA and NT

Three titles across WA and NT cover all of Lake MacDonald which straddles the border. The titles are less than 100 km from the producing Surprise petroleum field. Both WA titles are now granted. An NT work program for ELA 30478 was submitted to the Central Land Council and a meeting was held with Traditional Owners and the Central Land Council to discuss land access for exploration. A decision is awaited.

Discussions on an Exploration Agreement over the two Western Australian tenements with the Central Desert Native Title Services are on-going.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
WA E69/3290	311.9	99	09/03/2015	08/03/2020	RUM
WA E80/4896	226.8	72	08/06/2015	07/06/2020	RUM
NT ELA 30478	122.9	39	-	-	RUM

Lake MacDonald titles.



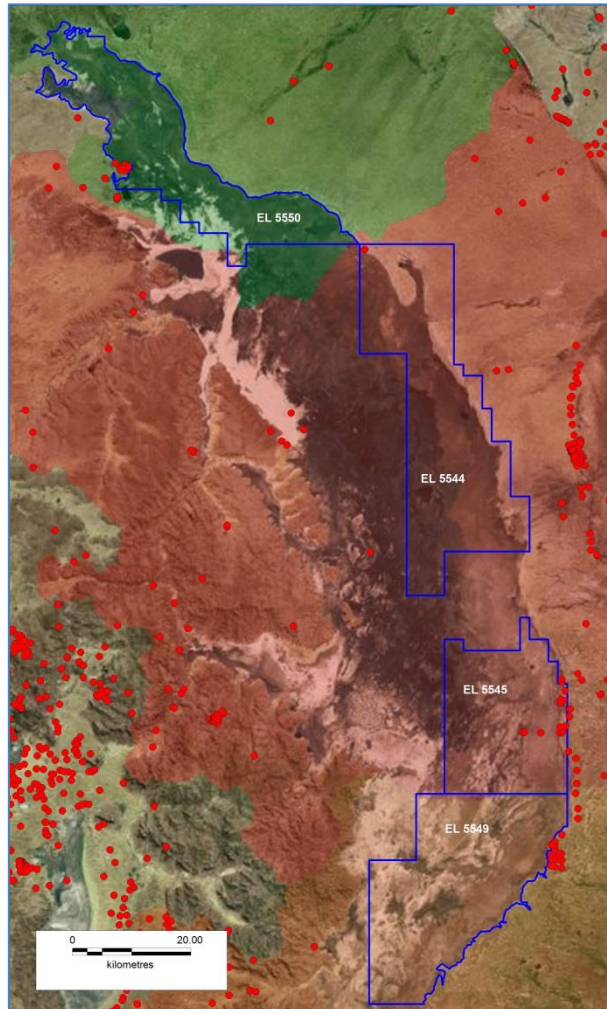
Lake MacDonald titles straddling the WA/NT border on satellite image background.

## LAKE TORRENS POTASH, SA

Rum Jungle Resources has four granted titles that cover a significant portion of Lake Torrens in South Australia. A reconnaissance work program was submitted to SA Government departments and Native Title notification documents have also been submitted to the relevant parties. Native Title negotiations are in progress via South Australian Native Title Services. A meeting with Traditional Owners and their lawyers took place in October 2015.

Tenement	Area km <sup>2</sup>	Grant Date	Expiry	Holder
EL 5544	880	05/01/2015	04/01/2017	RUM
EL 5545	505	05/01/2015	04/01/2017	RUM
EL 5549	736	05/01/2015	04/01/2017	RUM
EL 5550	617	05/01/2015	04/01/2017	RUM

Lake Torrens titles.



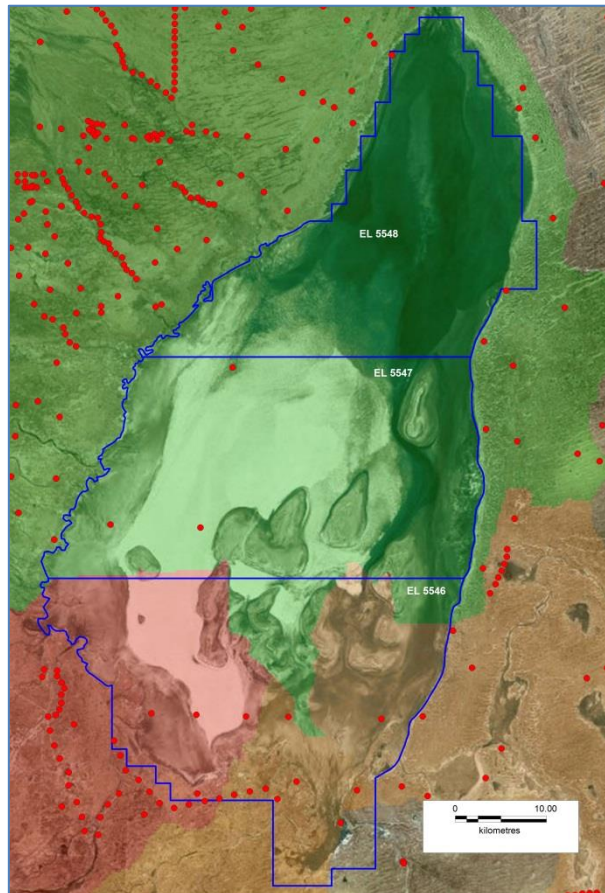
Lake Torrens titles. The catchments shown with a red tint are rated by GA as most prospective for potassium. Historic drillholes are shown as red dots. Note that there has been almost no drilling on the lake itself.

## LAKE FROME POTASH, SA

A series of titles of 2,718 km<sup>2</sup> cover the entire of Lake Frome in SA. There is very little data on the potash prospectivity, but GA rated the southwest as the most prospective. The lake has previously been explored for alkali evaporites and a single hole was drilled just off the lake targeting lithium. A meeting with Traditional Owners and their lawyers took place in early October. The results were encouraging.

Tenement	Area km <sup>2</sup>	Grant Date	Expiry	Holder
EL 5546	949	05/01/2015	04/01/2017	RUM
EL 5547	995	05/01/2015	04/01/2017	RUM
EL 5548	774	05/01/2015	04/01/2017	RUM

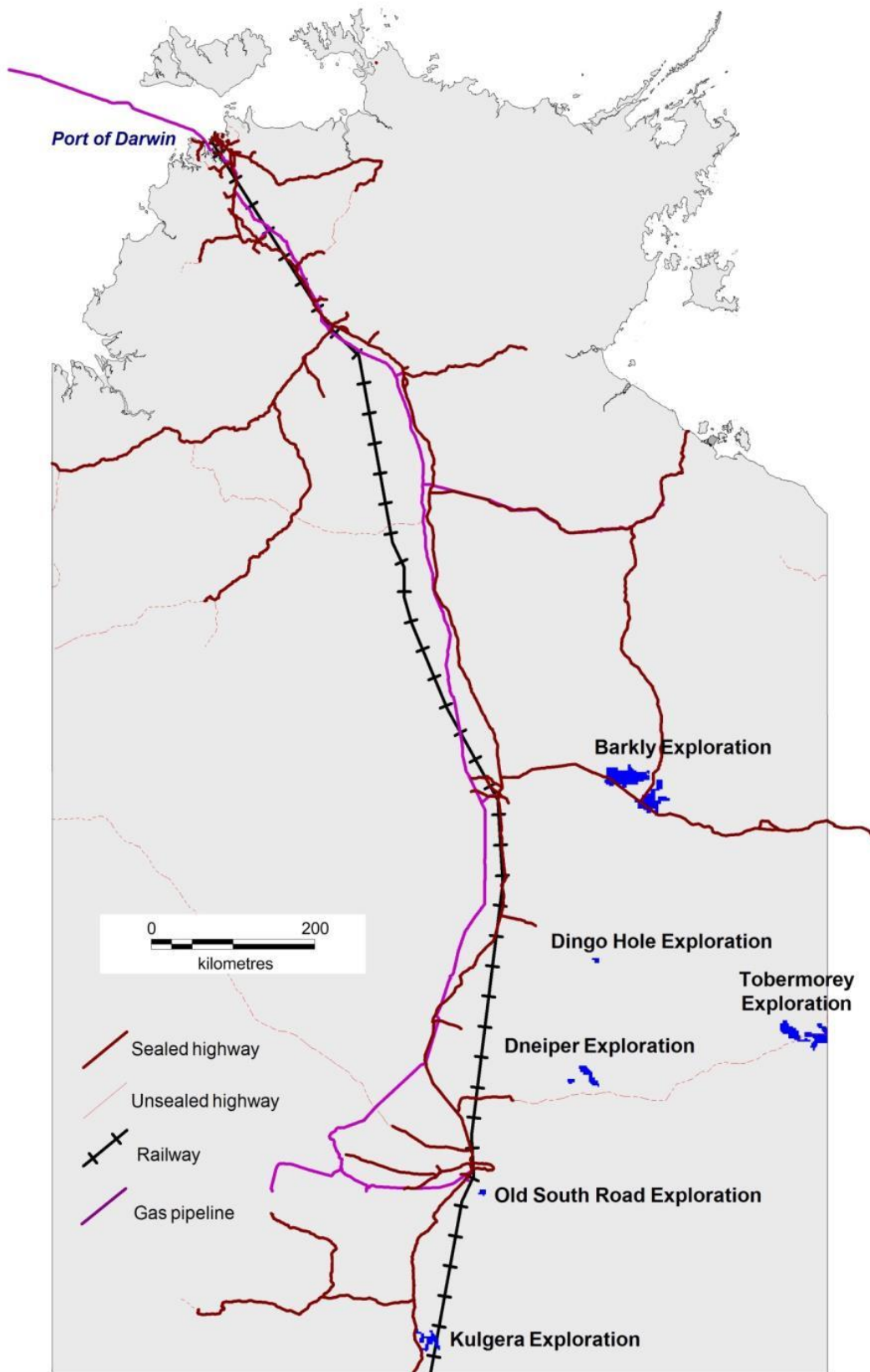
Lake Frome titles.



Lake Frome titles. The catchments shown with a red tint are rated by GA as most prospective for potassium. Historic drillholes are shown as red dots. There has been very little drilling on the lake itself.



## SILICA PROJECTS



Silica projects in relation to transport and gas pipelines.

## DINGO HOLE SILICA

This project is targeting potentially high-purity silica quartz rock. The titles are contiguous with and north of the Ammaroo phosphate project. A process of title rationalisation and consolidation continued during the Quarter. The three tenements shown below will be combined into a single new title, EL 31078.

An AAPA Certificate Clearance is still awaited.

Tenement	Area km <sup>2</sup>	Blocks	Grant Date	Expiry	Holder
EL 30659	22.37	7	29/06/2015	28/06/2021	RUM
EL 30792	3.20	1	27/10/2015	26/10/2021	RUM
EL 30819	9.59	3	01/04/2008	31/03/2016	RUM

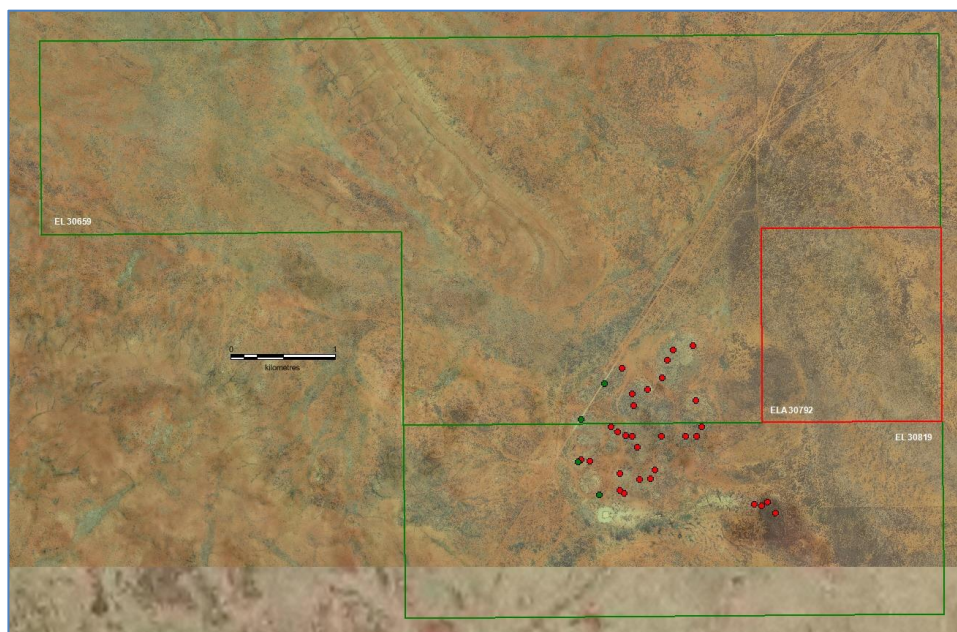
Dingo Hole titles.

The company engaged Dorfner Anzaplan in Germany to undertake basic process development testing of a Dingo Hole Silica sample for high purity applications. High purity quartz requires several specific processing steps in order to evaluate the full market potential and most suitable applications. This test work has been completed and included:

- Characterisation of mineral phases and inclusions
- Processing and mineral dressing to produce glass sand and powder fractions
- Physical treatment including attritioning, magnetic separation and flotation/high tension separation
- Chemical and thermal processing including hot chlorination
- Laboratory melting tests
- Testing for EMC (Epoxy Moulded Compound) Filler Applications.

These results were announced to the ASX on 23 October 2015. RUM will now consult with local and overseas silica experts and will conduct further discussions with Dorfner Anzaplan regarding the way forward. Topics of discussion will include:

- better understanding of sample selection and preparation that may impact test-work results
- potential of alternate processing methods to remove problematic impurities including optical sorting, different grind sizes, different flotation reagents, additional flotation stages, acid gestation times and pyro-metallurgical processes
- the potential of starting with lower impurity feedstock in the next phase of processing test work which may enable the right impurity levels to be attained at the end
- understanding of the future use cut-off grades for certain elements in feedstock to enable IOTA standard HPQ production
- more systematic sampling and/or drilling of the mineralised area to more fully understand the chemical distribution of the SiO<sub>2</sub> and the impurities
- engaging the HPQ industry to understand potential uses for this quality of product which may differ from normal standards.

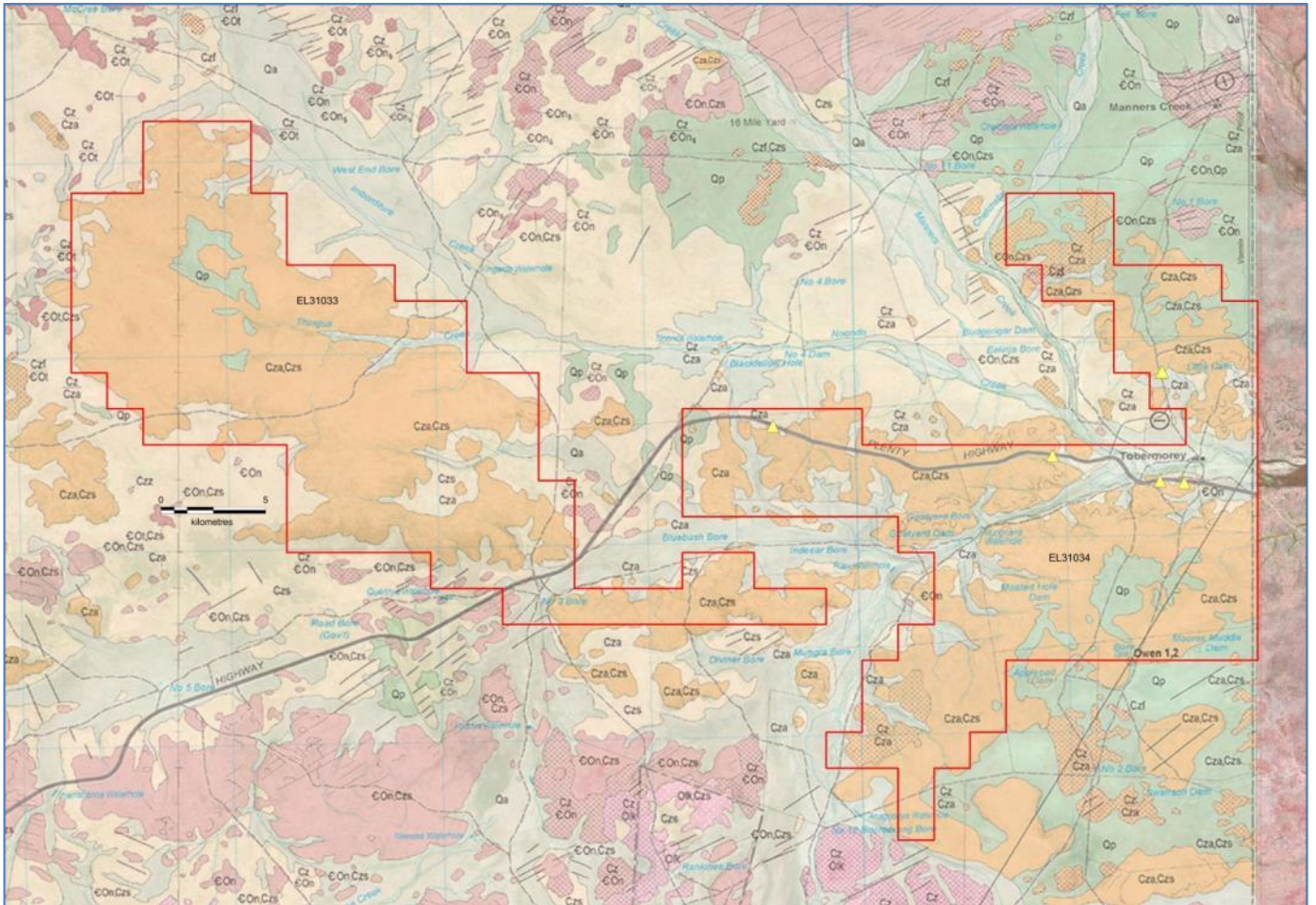


Map of Dingo Hole Silica titles with high resolution satellite imagery over the most prospective portion showing the rock-chip surface sample locations. The first round of sampling is shown as green dots and the second round as red dots.

## TOBERMOREY SILICA PROJECT, NT – EL 31033, EL 31044

This project is located along the Plenty Highway, adjacent to the NT/Qld border, 390 km from the Central Australian railway (via Ammaroo), 170 km from a railhead at Dajarra in Qld, and 240 km to Mount Isa. It covers mapped Austral Downs Limestone (Cza) which contains white chalcedonic quartz.

Tenement	Area km <sup>2</sup>	Blocks	Holder
ELA 31033	349.70	110	Territory Mining
ELA 31034	359.08	113	Territory Mining

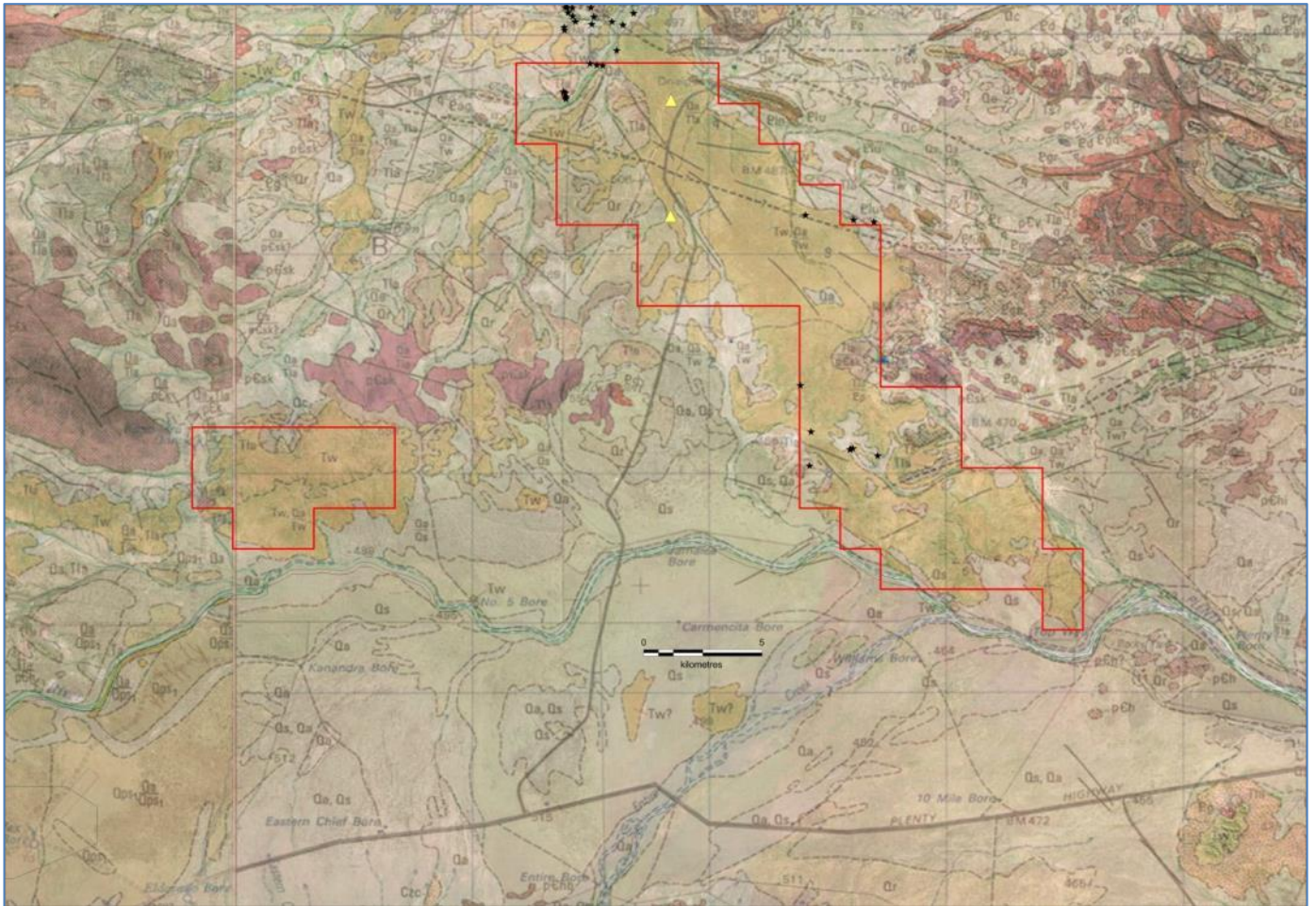


Tobermorey Silica Project applications and previous sampling shown as yellow triangles. The NT/Queensland border is shown on the right.

## DNEIPER SILICA PROJECT, NT – EL 31035, EL 31036

This project is just north of the Plenty Highway, 120 km south of Ammaroo and 135 km from the Central Australian Railway. It covers mapped Waite Formation (Tw). Historical exploration was mainly for uranium, base metals and diamonds. Rio took some rockchip samples but their locations were not recorded. ABM Resources previously sampled silcrete on Waite Formation (EL 24454, CR2010-0521) and these results have been captured. They didn't test for SiO<sub>2</sub> as such, but the lowest Al by ME-MS61 was over 2% and ranged up to 3.66% which is too high for HPQ.

Tenement	Area km <sup>2</sup>	Blocks	Holder
ELA 31035	37.99	12	Territory Mining
ELA 31036	205.92	65	Territory Mining

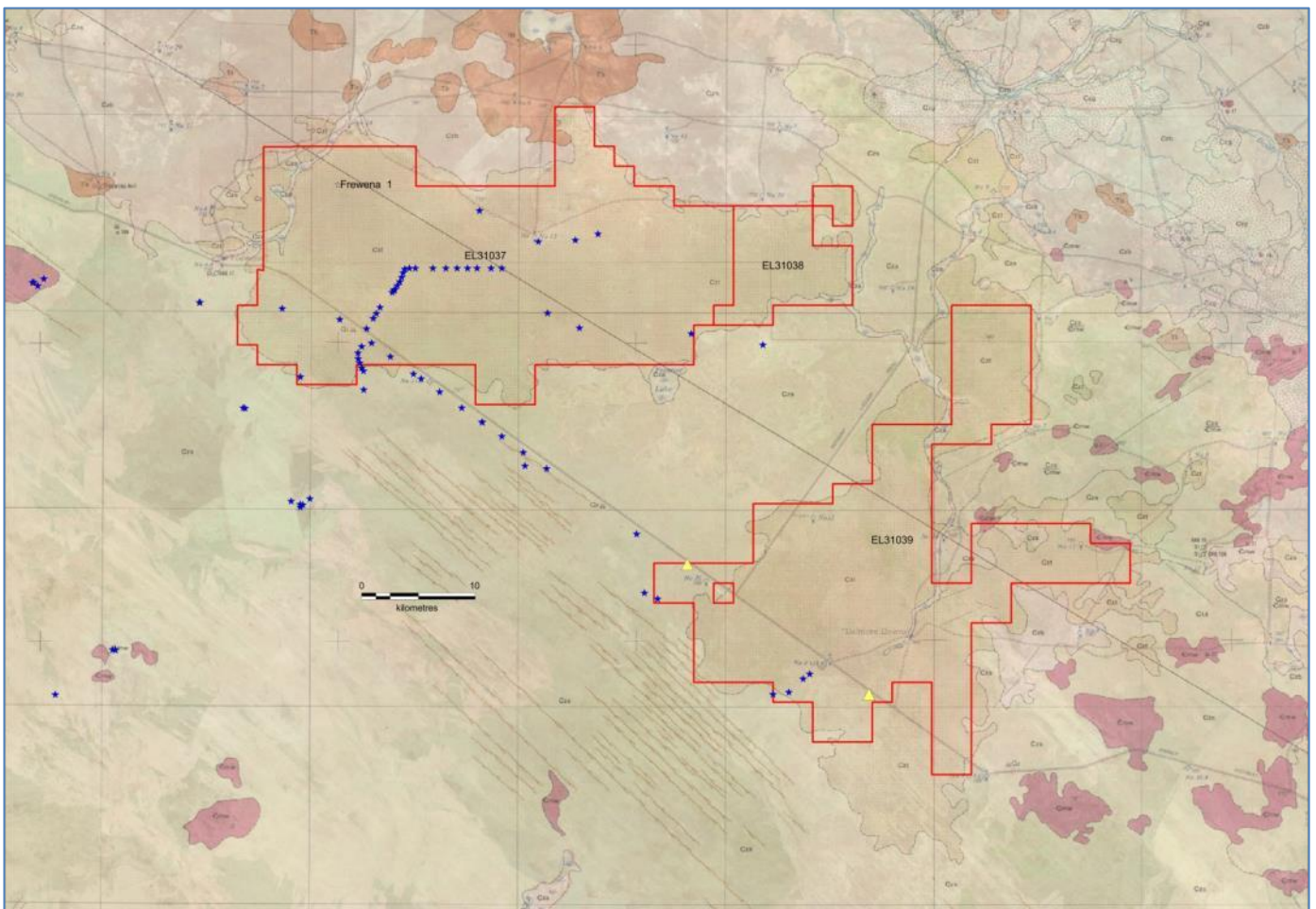


Dneiper Silica Project applications with previous sampling by ABM as black stars and other previous samples as yellow triangles.

## BARKLY SILICA PROJECT, NT – EL 31037, EL 31038, EL 31039

This project is located near the junction of the Barkly and Tableland Highways in central-eastern NT, between 130 km and 180 km east of Tennant Creek and 60 km to-120 km from Wonarah Phosphate. The project area may have some logistical advantage if any Tennant Creek – Mount Isa infrastructure were to be developed. There are several different units mapped as Cenozoic, Tertiary and regolith that might host pedogenic chalcedonic quartz on the Barkly Tableland. The published mapping of these was mainly based on air-photo interpretation and may be dubious. The general area has previously been explored for uranium, diamonds, and for phosphate by several companies. Vale did the only phosphate exploration drilling and found pods of low grade (1% to 9%) P<sub>2</sub>O<sub>5</sub>. Vale also did extensive rock chip sampling which is shown on the figure below and these data has been captured. Vale appear to have surface sampled both mapped Cambrian and potential silica hosts but did not analyse for SiO<sub>2</sub>. Their samples were biased towards carbonates. Almost all would be too high in Ca, Mg and/or Mn for HPQ, based on our current understanding.

Tenement	Area km <sup>2</sup>	Blocks	Holder
ELA 31037	790.33	246	Territory Mining
ELA 31038	103.65	32	Territory Mining
ELA 31039	647.73	201	Territory Mining

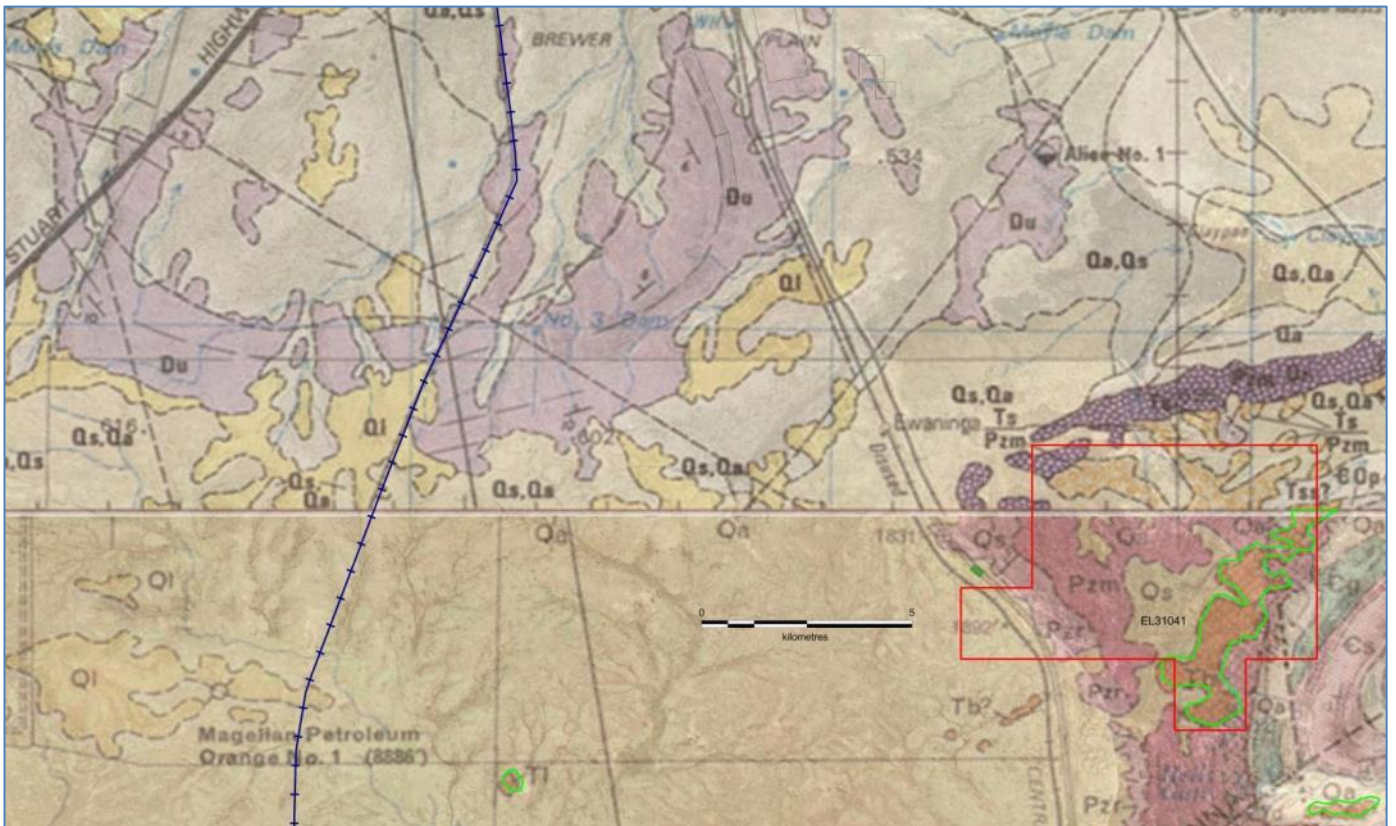


Barkly Silica Project applications. Blue stars are historical Vale rock chip samples. Yellow triangles are other previous samples.

## OLD SOUTH ROAD SILICA PROJECT, NT – EL 31041

This single application is along the old railway corridor (which will sterilise some of the EL), 36 km southeast of Alice Springs and 19 km from the new Central Australian Railway. The geology has been mapped differently on different generations of maps that cover the ELA. There are several formations which are described as hosting chalcedonic white silica either part of, or above, a silcrete, or with, or without, a limestone host. The only previous exploration by others was for uranium or base metals and there are no samples of relevance.

Tenement	Area km <sup>2</sup>	Blocks	Holder
ELA 31041	43.92	14	Territory Mining

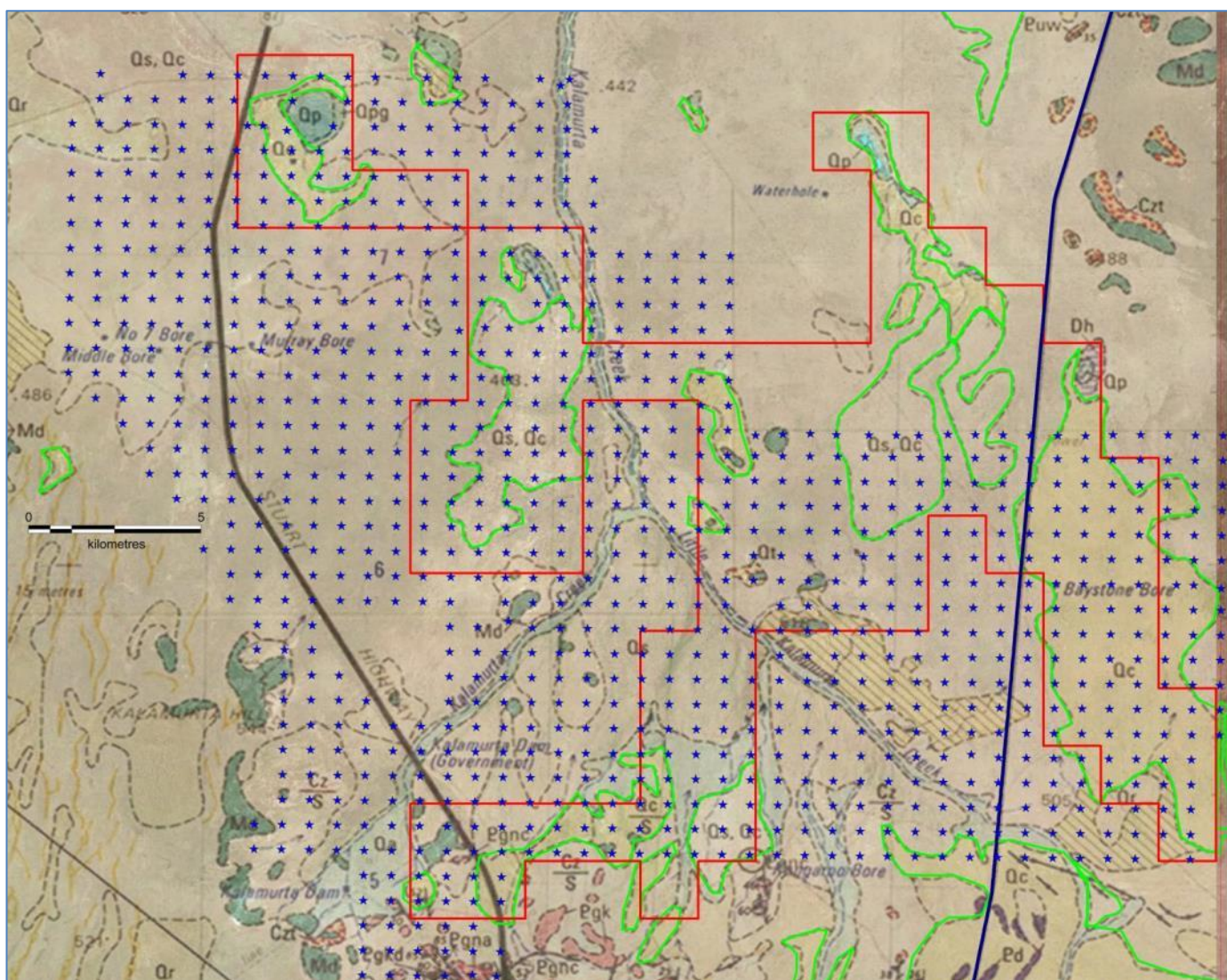


Old South Road Silica application.

### KULGERA SILICA PROJECT, NT – EL 31042

This application covers rocks described as chalcedonic calcrete between the Stuart Highway and the Central Australian Railway near the Kulgera rail siding, 40 km north of the SA border. It is also at the far eastern end of the Karinga Central Australian Groundwater Discharge Zone and there are several very small lakes. The only on-ground historical exploration has been for uranium and other metals by Quasar Resources (EL 26194, CR2010-0126). The Quasar data has been captured and assessed. The minimum Al was 800 ppm which is too high for HPQ, but this was from calcrete/soil samples not visually selected quartz rock. The application will be reviewed in light of the Quasar data and after a reconnaissance visit to check the geology, particularly if only scattered quartz nodules are present as the Quasar sampling seems to indicate, or if there is any bedded quartz that might be potential HPQ.

Tenement	Area km <sup>2</sup>	Blocks	Holder
ELA 31042	281.76	91	Territory Mining



Kulgera Silica application between the Stuart Highway and the Central Australian Railway with Quasar surface samples plotted.

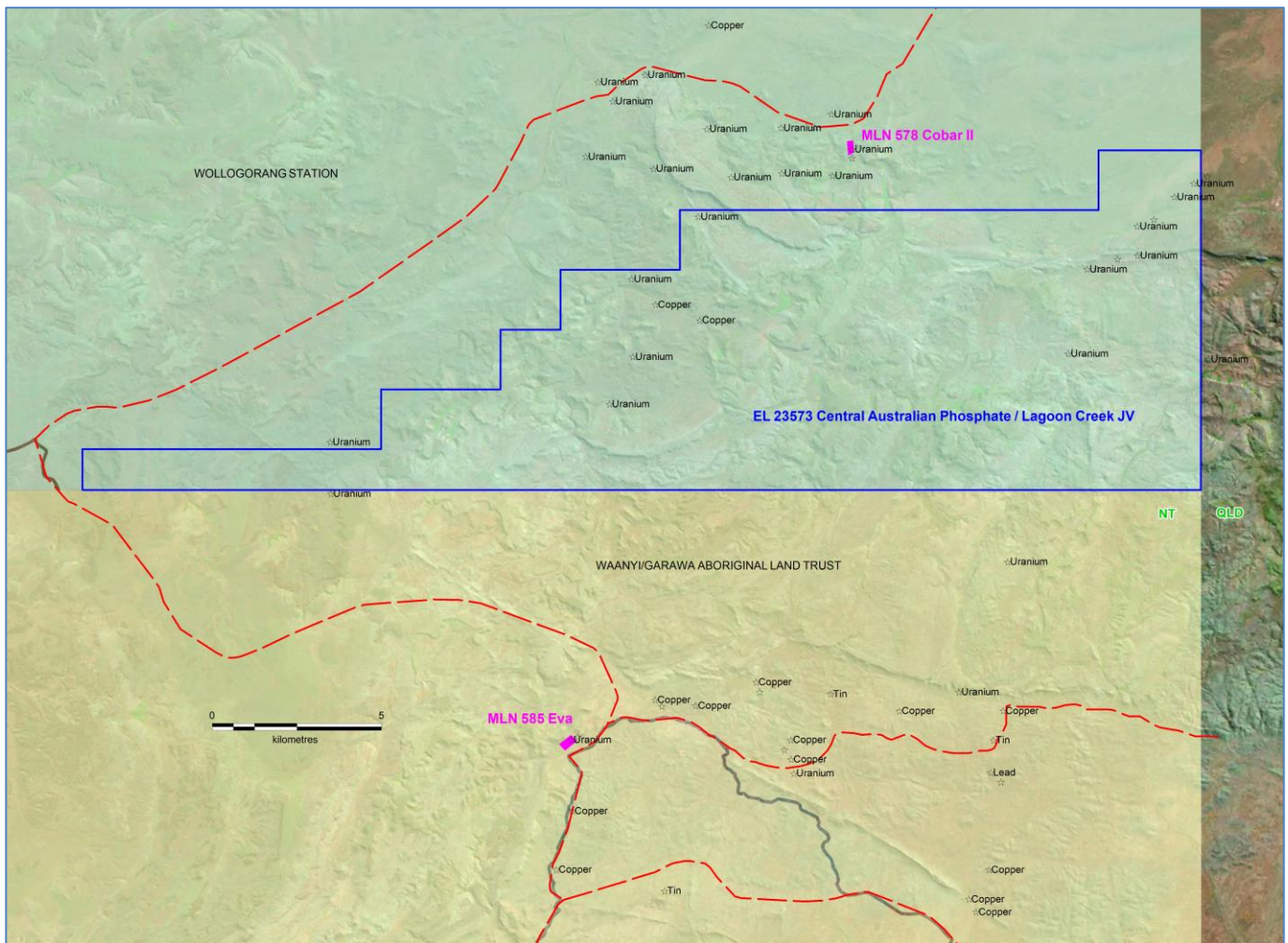
## OTHER TARGET COMMODITIES

### WESTMORELAND PROJECT, NT

This project targeting U/Au includes two MLNs and a JV over EL 23573 with Lagoon Creek Resources which is a subsidiary of Laramide. MLN 578 covers the historic Cobar II uranium mine which produced 0.33t U<sub>3</sub>O<sub>8</sub>. MLN 585 covers the historic Eva uranium mine which has JORC 2004 resources for uranium and gold. The old mine produced 25.8t U<sub>3</sub>O<sub>8</sub>.

Tenement	Area km <sup>2</sup>	Blocks	Grant	Expiry	Holder
EL 23573	189.8	65	23/12/2003	22/12/2015	Central Australian Phosphate/Lagoon Ck
ML 585	12.14 hectares	na	01/01/2001	31/12/2021	Central Australian Phosphate
ML 578	6.47 hectares	na	21/12/1955	31/12/2017	Central Australian Phosphate

**Central Australian Phosphate and JV titles in the Westmoreland Project.**



**Westmoreland Project adjacent to the Queensland border showing MODAT mineral occurrences.**

### TOP END PROJECT – MT BUNDEY / MT GOYDER, NT

The Top End Project is in an established polymetallic province within 20 km of the Toms Gully gold mine. Rum Jungle Resources has withdrawn from all but an inactive joint venture with Crocodile Gold (now Primary Minerals) over exploration tenements surrounding the Tom’s Gully Gold Mine. Rehabilitation of all work by Rum Jungle Resources has been completed and the security bond released by the Department of Mines and Energy.



## HEALTH, SAFETY, ENVIRONMENT AND COMMUNITY

### **Field Hours**

Field hours for the Quarter are shown below. There were no reportable accidents, injuries or environmental incidents during the Quarter.

<b>Project</b>	<b>Field Hours Worked</b>
Ammaroo	290
Karinga Lakes	1,100
<b>Total</b>	<b>1,390</b>

Field hours worked for the Quarter.

## CORPORATE

The Company had \$2.4 million cash on hand at 31 December 2015.

Exploration and evaluation studies expenditure (cash flow) was approximately \$623k for the Quarter, including statutory charges (levies, rental etc.) to maintain tenements.

Administration expenditure (cash flow) was circa \$450k for the Quarter.

## RESOURCE REGISTER as of 31 December 2015

Commodity	Project	Ownership	Resource Category	Mt P <sub>2</sub> O <sub>5</sub>	Grade P <sub>2</sub> O <sub>5</sub> %	Cut-Off P <sub>2</sub> O <sub>5</sub> %	JORC	Announced	Status
Phosphate	Ammaroo, NT	Territory Phosphate	Measured	135	15.4	10	2012	Rum Jungle Resources 09 December 2014	pre-feasibility completed
			Indicated	80	15.3				
			Inferred	930	14				
			Total	1,145	14				
	Ammaroo South, NT	Territory Phosphate	Inferred	70	13	10	2012	Rum Jungle Resources 12 June 2014	exploration

Commodity	Project	Ownership	Resource Category	Mt K <sub>2</sub> SO <sub>4</sub>	Grade mg/L K	Cut-Off mg/L K	JORC	Announced	Status
Potash	Karinga Lakes, NT	Rum Jungle Resources	Measured	5.8	-	3,000	2012	Rum Jungle Resources 20 February 2014	scoping study completed
			Indicated	0.46	-				
			Inferred	2.1	-				
			Total	8.4	av 4,760				
	Lake Mackay South JV, WA	51% of potash rights Rum Jungle Resources, 49% Toro Energy Limited	Inferred (mid estimate using 0.33% porosity)	13	av 3,758	none applied, but above 3,000 mg/L used at Karinga Lakes	2012	Rum Jungle Resources 09 September 2014	exploration
	Lake Hopkins, WA	Rum Jungle Resources	Inferred (mid estimate using 0.33% porosity)	4.5	av 3,849		2012	Rum Jungle Resources 12 September 2014	exploration

Commodity	Project	Ownership	Resource Category	Tonnes	Grade Au g/t	Cut-Off g/t	Au Oz	JORC	Announced	Status
Gold	Eva*, NT	Central Australian Phosphate	Inferred	14,000	3.07	1.2	1,400	2004	NuPower 4 March 2011	no activity since acquisition
			Indicated	87,600	3.88		10,900			
			Total	101,600	3.77		12,300			

Commodity	Project	Ownership	Resource Category	Tonnes	Grade U <sub>3</sub> O <sub>8</sub> %	Cut-Off U <sub>3</sub> O <sub>8</sub> %	U <sub>3</sub> O <sub>8</sub> Tonnes	JORC	Announced	Status
Uranium	Eva*, NT	Central Australian Phosphate	Inferred	105,300	0.05	0.02	60	2004	NuPower 4 March 2011	no activity since acquisition
			Indicated	430,500	0.14		590			
			Total	535,800	0.12		650			

**Notes**

Territory Phosphate Pty Ltd and Central Australian Phosphate Pty Ltd (formerly NuPower Limited) are wholly-owned subsidiaries of Rum Jungle Resources Ltd. All resources are listed as of the time of the ASX announcement given above and have not changed since. Totals may include rounding.

\*Rum Jungle Resources has not undertaken any work to independently verify the Eva project resources prepared by Mining Associates Pty Ltd and announced by NuPower. This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported. Further work and evaluation may be required to independently verify the JORC 2004 compliant resource and/or make it compliant with JORC 2012.

## ATTESTATIONS

*The information in this report that relates to the phosphate Mineral Resource estimates is based on information compiled by Jonathon Abbott, a Competent Person who is a Member of the Australian Institute of Geoscientists. Jonathon Abbott is a full time employee of MPR Geological Consultants Pty Ltd and is an independent consultant to Rum Jungle Resources.*

*Mr Abbott has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”.*

*Mr Abbott consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*



**Jonathon Abbott**  
Consulting Geologist  
MPR Geological Consulting Pty Ltd

*The information in this report that relates to the potash resources have been verified by Ben Jeuken from Groundwater Science Pty Ltd who is a member of the AusIMM, and the International Association of Hydrogeologists and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity to which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”.*

*Ben Jeuken consents to the inclusion in this report on the matters based on his information in the form and context in which it appears.*



**BM Jeuken BSc, MAusIMM, MIAH**  
Principal - Groundwater Science

## DISCLAIMER

*This report contains forward looking statements. Forward looking statements are not based on historical facts, but are based on current expectations of future results or events. These forward looking statements are subject to risks, uncertainties and assumptions which could cause actual results or events to differ materially from the expectations described in such forward looking statements. Although Rum Jungle Resources Ltd and its subsidiaries (the Companies) believe that the expectations reflected in the forward looking statements in this presentation are reasonable, no assurance can be given (and the Companies do not give any assurance) that such expectations will prove to be correct. Undue reliance should not be placed on any forward looking statements in this announcement, particularly given that the Companies have not yet made a decision to proceed to develop any other project, and the Companies do not yet know whether they will be able to finance any project.*



**Chris Tziolis**  
Managing Director

## TENEMENT ACTIVITIES FOR THE QUARTER

Rum Jungle Resources Ltd		
October - December 2015 Actions		
Date	Tenement	Action
05/10/2015	EL 25080	Partial Voluntary Surrender - 21 Blocks
05/10/2015	EL 24987	Partial Voluntary Surrender - 37 Blocks
27/10/2015	EL 30792	Grant EL 30792 - 1 Block Dingo Hole Silica

Territory Phosphate Pty Ltd		
October - December 2015 Actions		
Date	Tenement	Action
05/10/2015	EL 28872	Partial Voluntary Surrender - 10 Blocks
05/10/2015	EL 28403	Partial Voluntary Surrender - 48 Blocks
05/10/2015	EL 29373	Partial Voluntary Surrender - 15 Blocks
05/10/2015	EL 29374	Partial Voluntary Surrender - 14 Blocks
06/10/2015	EL 30223	Partial Voluntary Surrender - 80 Blocks
06/10/2015	EL 30224	Partial Voluntary Surrender - 22 Blocks
12/10/2015	EL 25183	Partial Voluntary Surrender - 24 Blocks

Territory Mining Pty Ltd		
October - December 2015 Actions		
Date	Tenement	Action
23/10/2015	EL 30133	New Application Silica - 110 Blocks Thingue
23/10/2015	EL 30134	New Application Silica - 113 Blocks Tobermorey
23/10/2015	EL 30135	New Application Silica - 12 Blocks Dneiper West
23/10/2015	EL 30136	New Application Silica - 65 Blocks Dneiper
23/10/2015	EL 30137	New Application Silica - 246 Blocks Frewena
23/10/2015	EL 30138	New Application Silica - 32 Blocks Frewena East
23/10/2015	EL 30139	New Application Silica - 201 Blocks Dalmore
23/10/2015	EL 31041	New Application Silica - 14 Blocks Old South Road
23/10/2015	EL 31042	New Application Silica - 91 Blocks Kulgera