Open File Envelope No. 12,277

EL 4720 AND ELS 4733 - 4742

THE LAKE EYRE PROJECT

COMBINED ANNUAL REPORTS AND FINAL REPORT TO LICENCES' JOINT SURRENDER, FOR THE PERIOD 3/5/2011 TO 7/3/2013

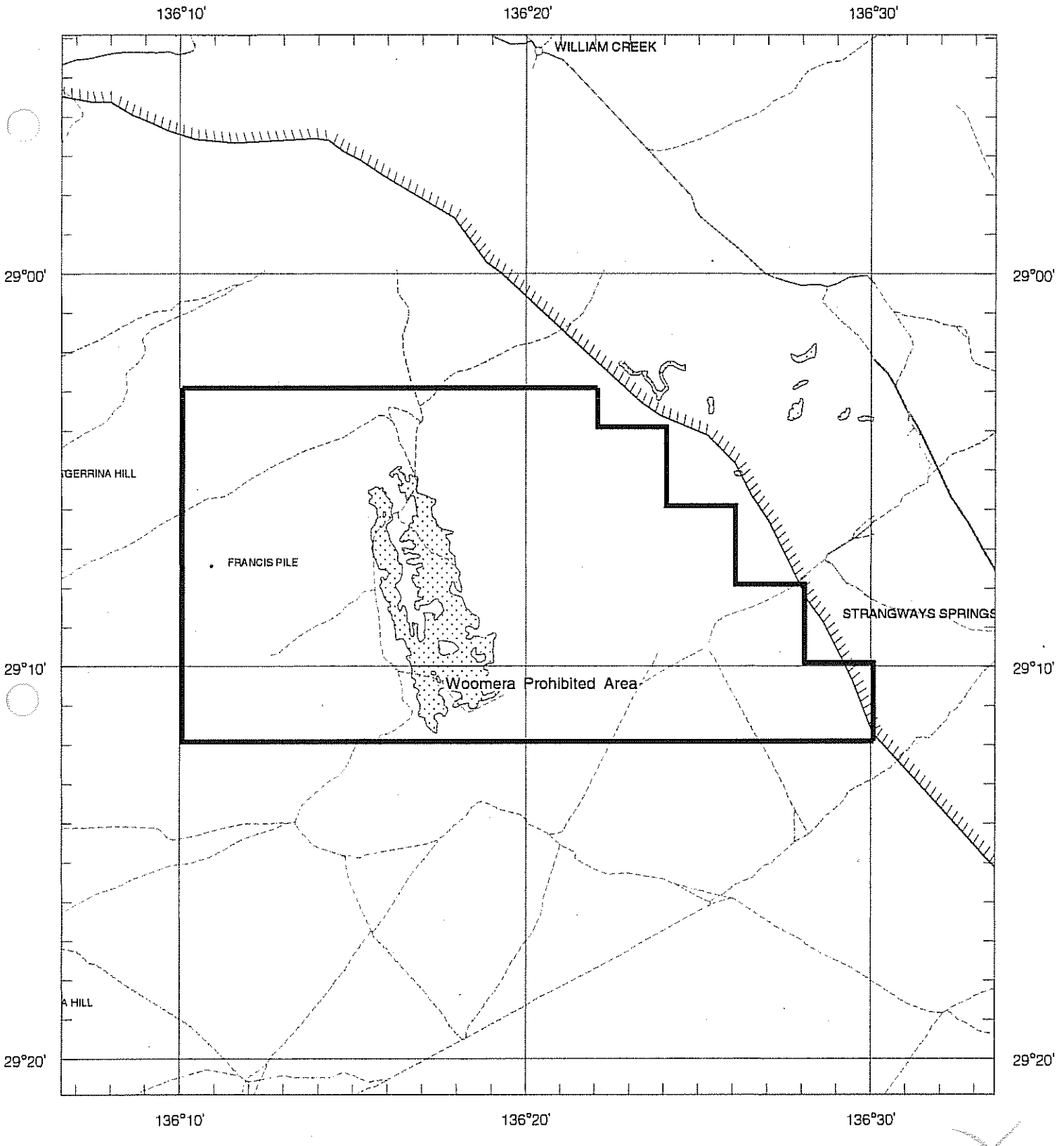
Submitted by
Rio Tinto Exploration Pty Ltd
2013

Enquiries: Customer Services
Resources and Energy Group
7th Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880

Government of South Australia
Department for Manufacturing, Innovation, Trade, Resources and Energy

SCHEDULE A



SCALE 1 : 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

APPLICANT : **RIO TINTO EXPLORATION PTY LTD**

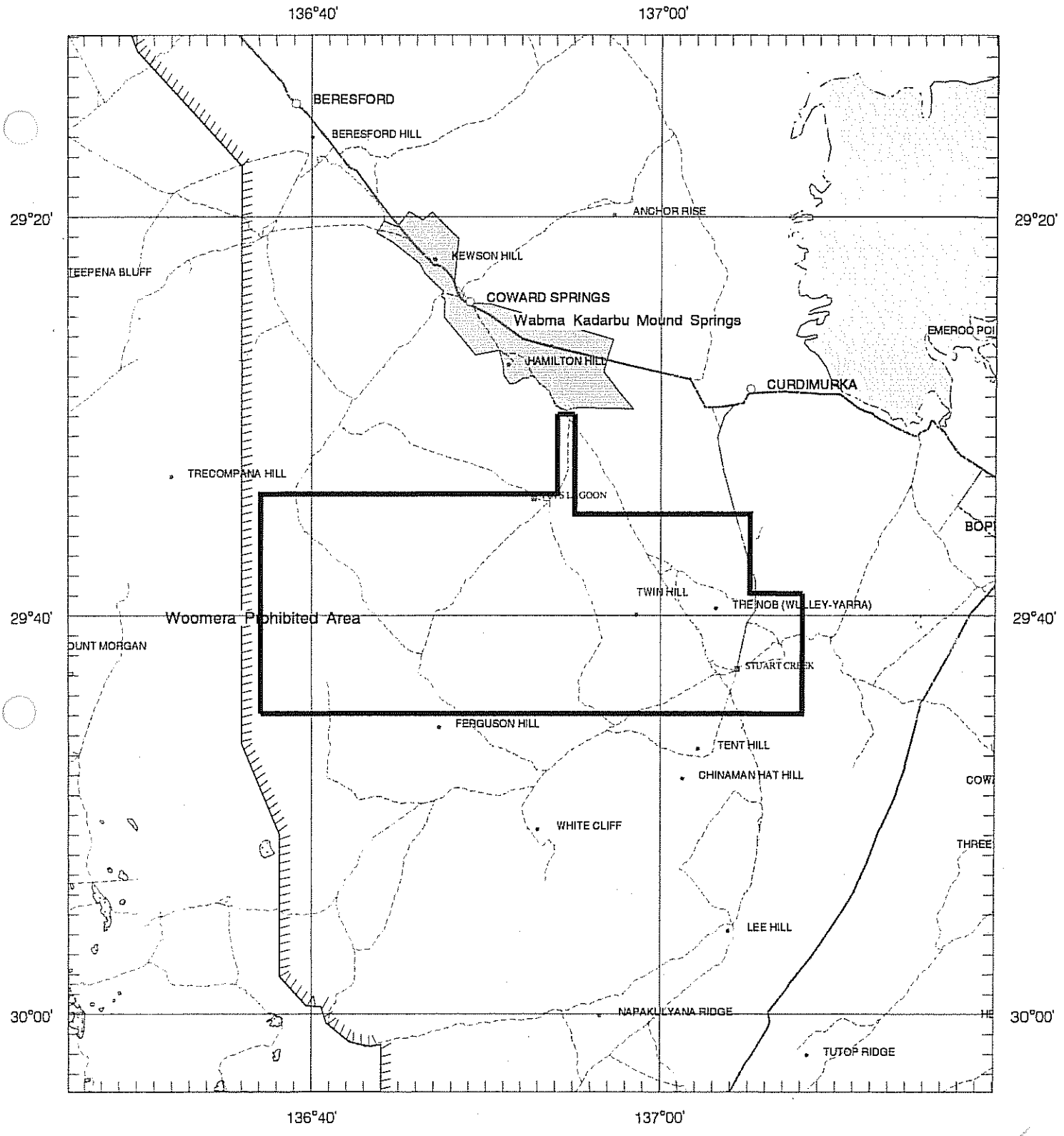
FILE REF : **309/10** TYPE : **MINERAL ONLY** AREA : **443** km² (approx.)

1:250000 MAPSHEETS : **BILLA KALINA CURDIMURKA**

LOCALITY : **FRANCIS SWAMP AREA - Approximately 160 km east of Coober Pedy**

DATE GRANTED : **04-Apr-2011** DATE EXPIRED : **03-Apr-2013** EL NO : **4720**

SCHEDULE A



SCALE 1 : 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA

APPLICANT : **RIO TINTO EXPLORATION PTY LTD**

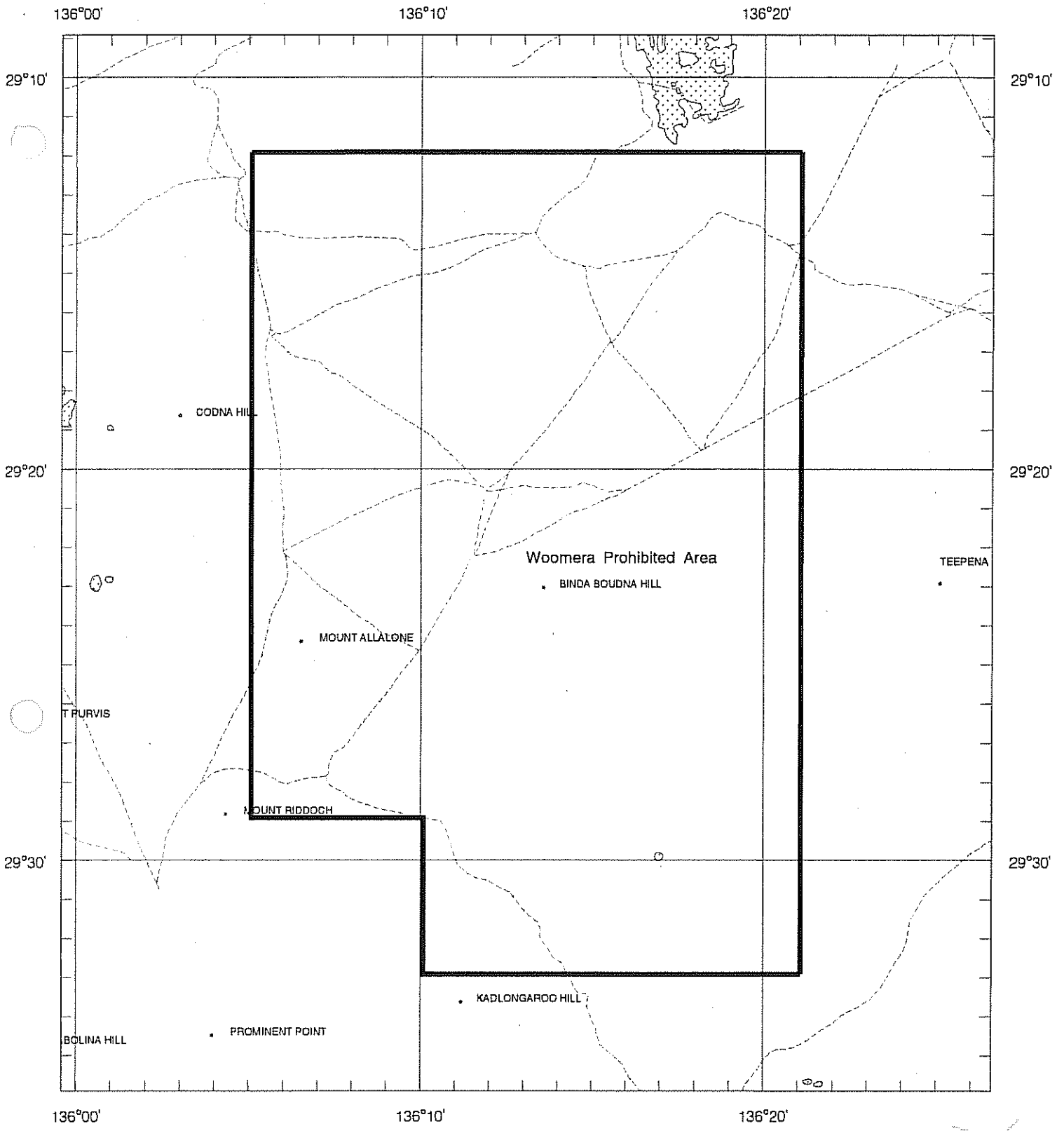
FILE REF : **291/10** TYPE : **MINERAL ONLY** AREA : **954** km² (approx.)

1:250000 MAPSHEETS : **CURDIMURKA**

LOCALITY : **STUART CREEK AREA - Approximately 120 km west of Marree**

DATE GRANTED : **03-May-2011** DATE EXPIRED : **02-May-2013** EL NO : **4734**

SCHEDULE A



SCALE 1 : 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

APPLICANT : **RIO TINTO EXPLORATION PTY LTD**

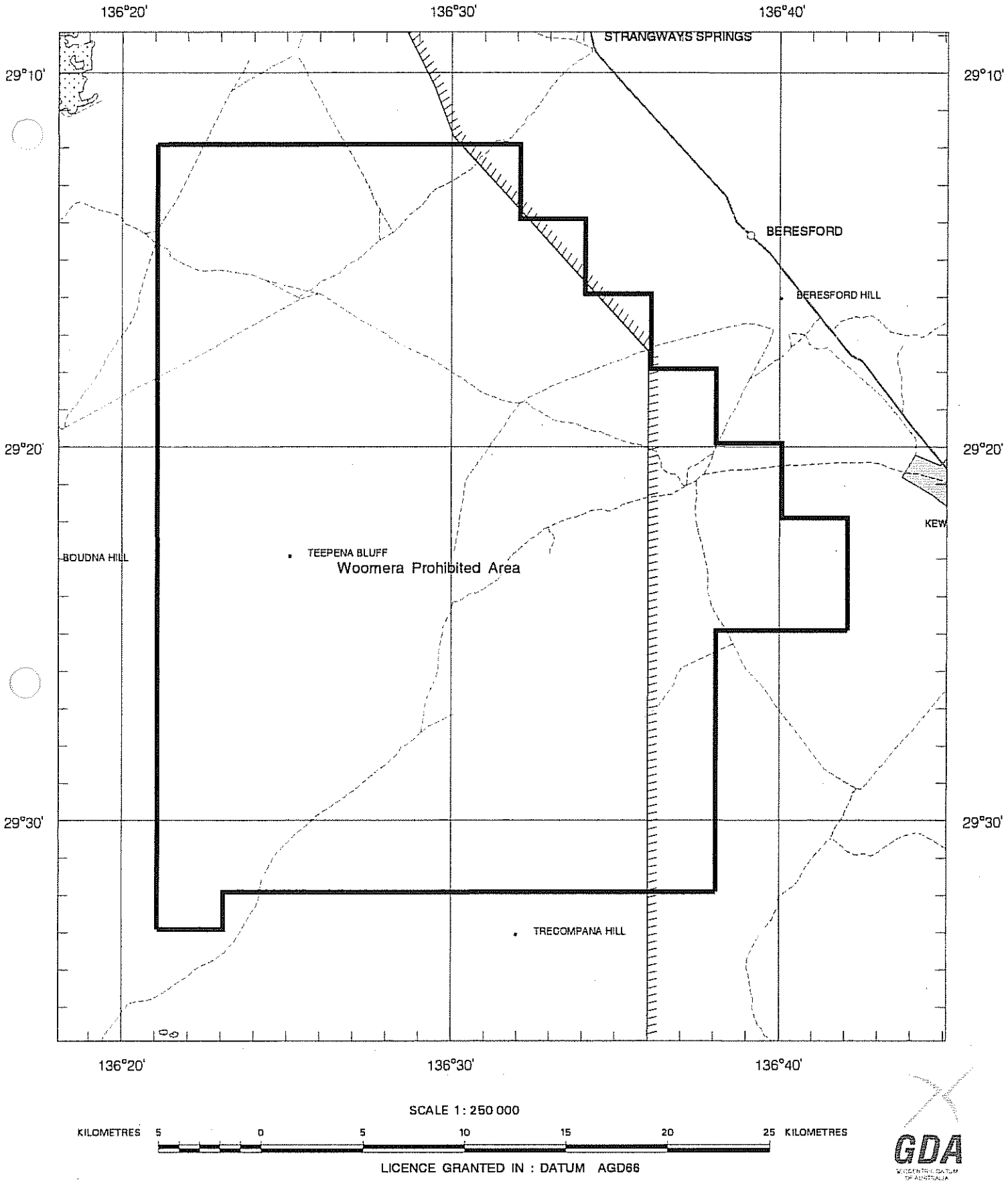
FILE REF : **295/10** TYPE : **MINERAL ONLY** AREA : **945** km² (approx.)

1:250000 MAPSHEETS : **BILLA KALINA**

LOCALITY : **BINDA BOUDNA AREA - Approximately 150 km ESE of Coober Pedy**

DATE GRANTED : **03-May-2011** DATE EXPIRED : **02-May-2013** EL NO : **4738**

SCHEDULE A



SCALE 1 : 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **RIO TINTO EXPLORATION PTY LTD**

FILE REF : **296/10** TYPE : **MINERAL ONLY** AREA : **998** km² (approx.)

1:250000 MAPSHEETS : **BILLA KALINA CURDIMURKA**

LOCALITY : **MARGARET CREEK AREA - Approximately 140 km WNW of Marree**

DATE GRANTED : **03-May-2011** DATE EXPIRED : **02-May-2013** EL NO : **4739**

Rio Tinto Exploration Pty Ltd

Lake Eyre Project

Combined Annual Report

for the period 3 May 2011 to 2 May 2012

EL 4720, EL 4733, EL 4734, EL 4735, EL 4736, EL 4737, EL 4738, EL 4739, EL 4740, EL 4741 and EL 4742

Report Type:	Combined Annual Report
Reporting Period:	3 May 2011 to 2 May 2012
Tenement Numbers:	EL 4720, EL 4733, EL 4734, EL 4735, EL 4736, EL 4737, EL 4738, EL 4739, EL 4740, EL 4741 and EL 4742
Project:	Lake Eyre
Combined Reporting:	Granted 8 March 2012, Anniversary 2 May
Tenement Holder:	Rio Tinto Exploration Pty Ltd
Tenement Operator:	Rio Tinto Exploration Pty Ltd
Author:	Erin McMahon, Project Geologist, Rio Tinto Exploration Pty Ltd
Date of report:	31 May 2012
RTX Internal Report Number:	29293

Contents

Tables

Figures

Digital Files (name, file size, file type)

Lake_Eyre_01_2012_A_DrillCollars.txt
Lake_Eyre_02_2012_A_Lithology.txt
Lake_Eyre_03_2012_A_Assay.txt
Lake_Eyre_04_2012_A_Survey.txt
Lake_Eyre_05_2012_A_Sample.txt
Lake_Eyre_18_2012_A_PhysProps.txt

1 Summary

This first combined annual report summarises the exploration activities undertaken by Rio Tinto Exploration (RTX) at their Lake Eyre Project for the period from 3 May 2011 to 2 May 2012. The project consists of eleven granted tenements (EL 4720, EL 4733, EL 4734, EL 4735, EL 4736, EL 4737, EL 4738, EL 4739, EL 4740, EL 4741 and EL 4742) in four contiguous blocks.

The project is located in South Australia approximately 350 km north of Port Augusta and around 150 km north of Olympic Dam. The tenements are situated in the area to the northwest of the township of Marree, to the southeast of the township of William Creek, and the area surrounding the southern end of Lake Eyre.

The project is situated on five 1:250,000 Map Sheets: Warrina (SH5303), Lake Eyre (SH5304), Billa Kalina (SH5307), Curdimurka (SH5308) and Marree (SH5405).

RTX are targeting sandstone hosted Uranium deposits within the Eromanga Basin. RTX are specifically targeting the Cretaceous sandstones as the host for uranium mineralisation.

Work during the period was completed with a holistic project approach, rather than on a tenement by tenement basis. Negotiations with traditional owners for land access are underway, however as a land access agreement is yet to be finalised no on-ground exploration activities were undertaken during the reporting period.

A desktop review of previous explorer work was undertaken. The SARIG drillhole database was searched for drillholes within or close to the project which intersected the Cadna-owie Formation. Seven such holes were identified and three holes intersecting shallower Late Cretaceous and Tertiary sandstone units were also reviewed.

Available reports for the identified holes were reviewed for evidence of uranium mineralisation. Drill core and chips from units of interest retained at the Department for Manufacturing, Innovation, Trade, Resources and Energy (DMITRE) core library were analysed. Work included geological logging, handheld scintillometer, magnetic susceptibility and handheld Niton XRF analysis, and geochemical assay analysis of selected samples.

Inspection of historic drillholes and assay analysis did not reveal any uranium mineralisation within the Cadna-owie Formation in the Lake Eyre Project. The southwest zone of the project showed very few encouraging signs that indicate the presence of a sandstone hosted uranium deposit. Therefore, it was decided tenements in the southwest part of the project, EL 4720, EL 4734, EL 4738 and EL 4739 should be relinquished.

It is recommended that exploration be focussed on the deeper part of the Eromanga Basin where transport and reduction mechanisms would have had a better chance of taking effect. Further exploration will be conducted on the remaining seven tenements to generate more defined uranium targets.

2 Exploration Index Map

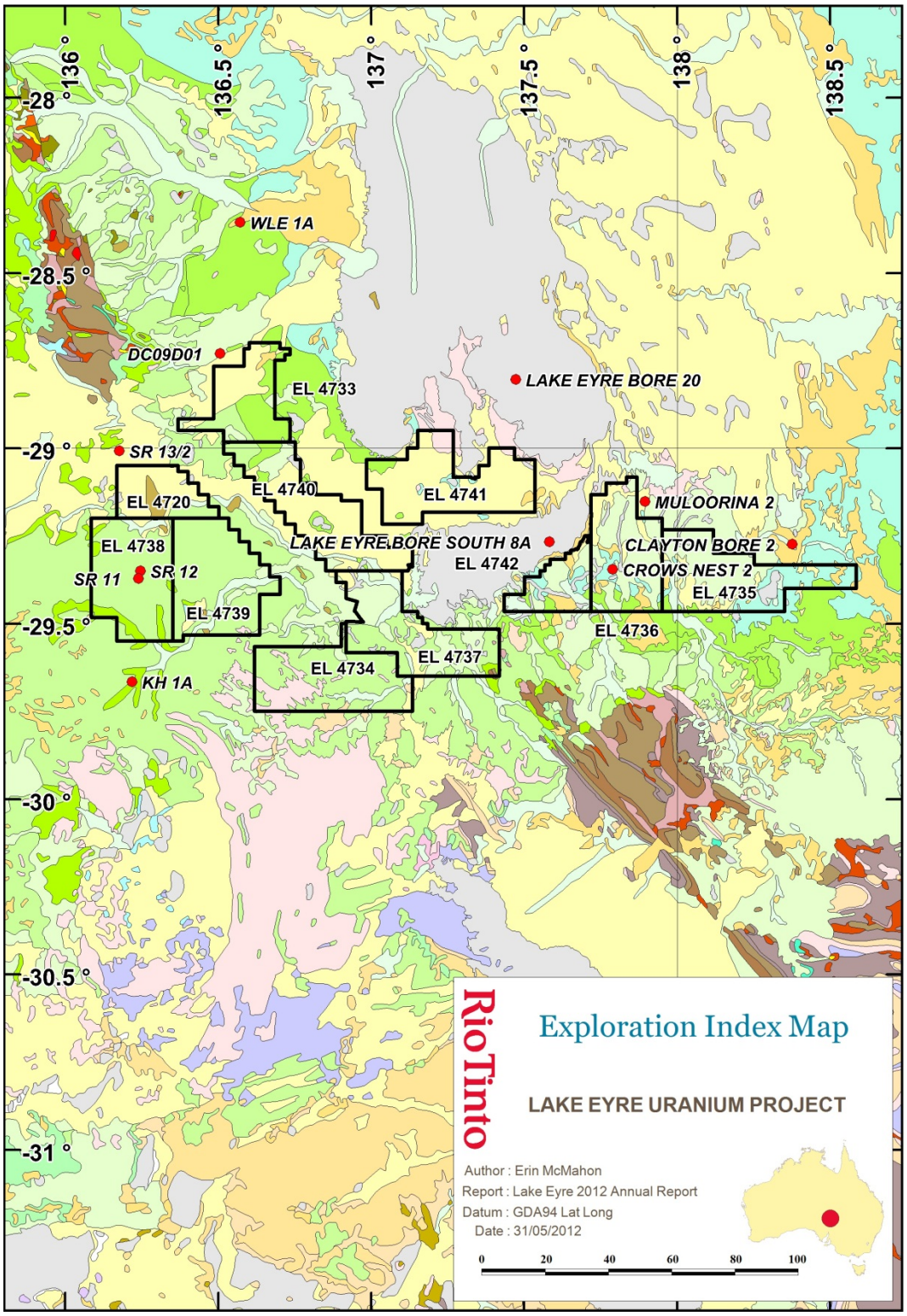


Figure 1: Lake Eyre Project Exploration Index Map

3 Keywords

1:250,000 Map Sheet Warrina (SH5303); 1:250,000 Map Sheet Lake Eyre (SH5304); 1:250,000 Map Sheet Billa Kalina (SH5307); 1:250,000 Map Sheet Curdimurka (SH5308); 1:250,000 Map Sheet and Marree (SH5405)

Francis Swamp; Victory Dam; Stuart Creek; Lake Harry; Muloorina; Dillinna; Binda Bounda; Margaret Creek; Mudlark Dam; Jackboot Bay; Cooryabbie; Marree; William Creek; Lake Eyre

Uranium; Sandstone Hosted

Literature Review; DMITRE Core Library; Drill Core; Drill Chips; Magnetic Susceptibility; Handheld Scintillometer; Handheld XRF Analyser; Assay Analysis;

SiO_2; Al_2O_3; Fe_2O_3; CaO; MgO; Na_2O; K_2O; Cr_2O_3; TiO_2; MnO; P_2O_5; SrO; BaO; C; S; Ba; Ce; Cr; Cs; Dy; Er; Eu; Ga; Gd; Hf; Ho; La; Lu; Nb; Nd; Pr; Rb; Sm; Sn; Sr; Ta; Tb; Th; Tl; Tm; U; V; W; Y; Yb; Zr; As; Bi; Hg; Sb; Se; Te; LOI; Total; Ag; Cd; Co; Cu; Mo; Ni; Pb; Zn; Au; Pt; Pd

Eromanga Basin; Great Artesian Basin; Cadna-owie – Hooray Aquifer; Algebuckinga Sandstone; Cadna-owie Formation; Marree Subgroup; Bulldog Shale; Ooodnadatta Formation; Coorikiana Sandstone; Winton Formation; Namba Formation; Boorthanna Formation; Cretaceous;

Rio Tinto Exploration; Lake Eyre Project

4 Introduction, History and Exploration Rationale

4.1 Tenure

The Lake Eyre Project consists of eleven granted tenements (EL 4720, EL 4733, EL 4734, EL 4735, EL 4736, EL 4737, EL 4738, EL 4739, EL 4740, EL 4741 and EL 4742) in four contiguous blocks. The tenements are all 100% owned and operated by Rio Tinto Exploration Pty Ltd. EL 4720 was granted on 4 April 2011 and the remainder of the tenements were granted on 3 May 2011, for an initial period of two years. Group reporting was granted for the eleven tenements of the Lake Eyre Project on 8 March 2012, with a nominated annual reporting date of 2 May. Further details of the tenements are given below in Table 1 and Table 2.

Tenement Number	Tenement Name	Tenement Status	Tenement Holder	Tenement Operator	Project
EL 4720	Francis Swamp	Granted	Rio Tinto Exploration Pty Ltd (100%)	Rio Tinto Exploration Pty Ltd	Lake Eyre Uranium Project
EL 4733	Victory Dam	Granted			
EL 4734	Stuart Creek	Granted			
EL 4735	Lake Harry	Granted			
EL 4736	Muloorina	Granted			
EL 4737	Dillinna	Granted			
EL 4738	Binda Bounda	Granted			
EL 4739	Margaret Creek	Granted			
EL 4740	Mudlark Dam	Granted			
EL 4741	Jackboot Bay	Granted			
EL 4742	Cooryabbie	Granted			

Table 1: Summary of Lake Eyre Project Tenure (part 1)

Tenement Number	Grant Date	Expiry Date	Area (km^2)	2011/2012 Required Expenditure	2011/2012 Actual Expenditure
EL 4720	4 April 2011	3 April 2013	443	75,000	617.86
EL 4733	3 May 2011	2 May 2013	622	90,000	1,115.72
EL 4734	3 May 2011	2 May 2013	954	125,000	1,115.72
EL 4735	3 May 2011	2 May 2013	970	125,000	1,115.72
EL 4736	3 May 2011	2 May 2013	820	110,000	1,115.72
EL 4737	3 May 2011	2 May 2013	949	120,000	1,115.72
EL 4738	3 May 2011	2 May 2013	945	120,000	1,115.72
EL 4739	3 May 2011	2 May 2013	998	125,000	557.86
EL 4740	3 May 2011	2 May 2013	941	120,000	557.86
EL 4741	3 May 2011	2 May 2013	998	125,000	1,115.72
EL 4742	3 May 2011	2 May 2013	386	65,000	1,115.72
TOTAL			**9,026**	**1,200,000**	**10,659.34**

Table 2: Summary of Lake Eyre Project Tenure (part 2)

4.2 Location

The Lake Eyre Project is located in South Australia approximately 350km north of Port Augusta and around 150km north of Olympic Dam. The tenements are situated in the area to the northwest of the township of Marree, to the southeast of the township of William Creek, and the area surrounding the southern end of Lake Eyre. The project is up to 240km wide from east to west and up to 120km wide from north to south.

Road access to the majority of the tenements is via the Oodnadatta Track and various station and other minor tracks between William Creek and Marree. The most easterly tenements can be accessed via the Birdsville Track to the northeast of Marree and various station and other minor tracks (Figure 2).

4.3 Literature Search

A tenement and literature search was conducted and previous explorer work was reviewed. A summary is provided in the following section, Exploration/Mining History.

Historic drillholes in and around the Lake Eyre Project area were reviewed to identify holes which had intersected the Cadna-owie Formation. Seven drillholes were identified: WLE 1A, DC09D01, SR 13/2, SR 12, SR 11, KH 1A and CLAYTON BORE 2. Three further holes intersected shallower Late Cretaceous and Tertiary sandstone units: MULOORINA 2, LAKE EYRE BORE SOUTH 8A and CROWS NEST 2. Available historical reports were located for these drillholes. The following uranium results were noted:

WLE 1A is situated ~40km north of the western end of the project. A downhole gamma probe trace in an historic report had background gamma radiation readings of ~10 to 20cps for the majority of the hole. The Cadna-owie and Algebuckina sandstone units (275 to 295m depth) had average gamma readings of ~50cps. (Price *et al.* 1980)

KH 1A is located ~13km south of the western end of the project. A downhole gamma probe trace in an historic report on gives readings of <20cps for the entire hole. There is no gamma elevation in the Cadna-owie Formation (4.5 to 29.5m depth). (Clarke 1982)

No gamma or uranium information was located in reports for the other holes.

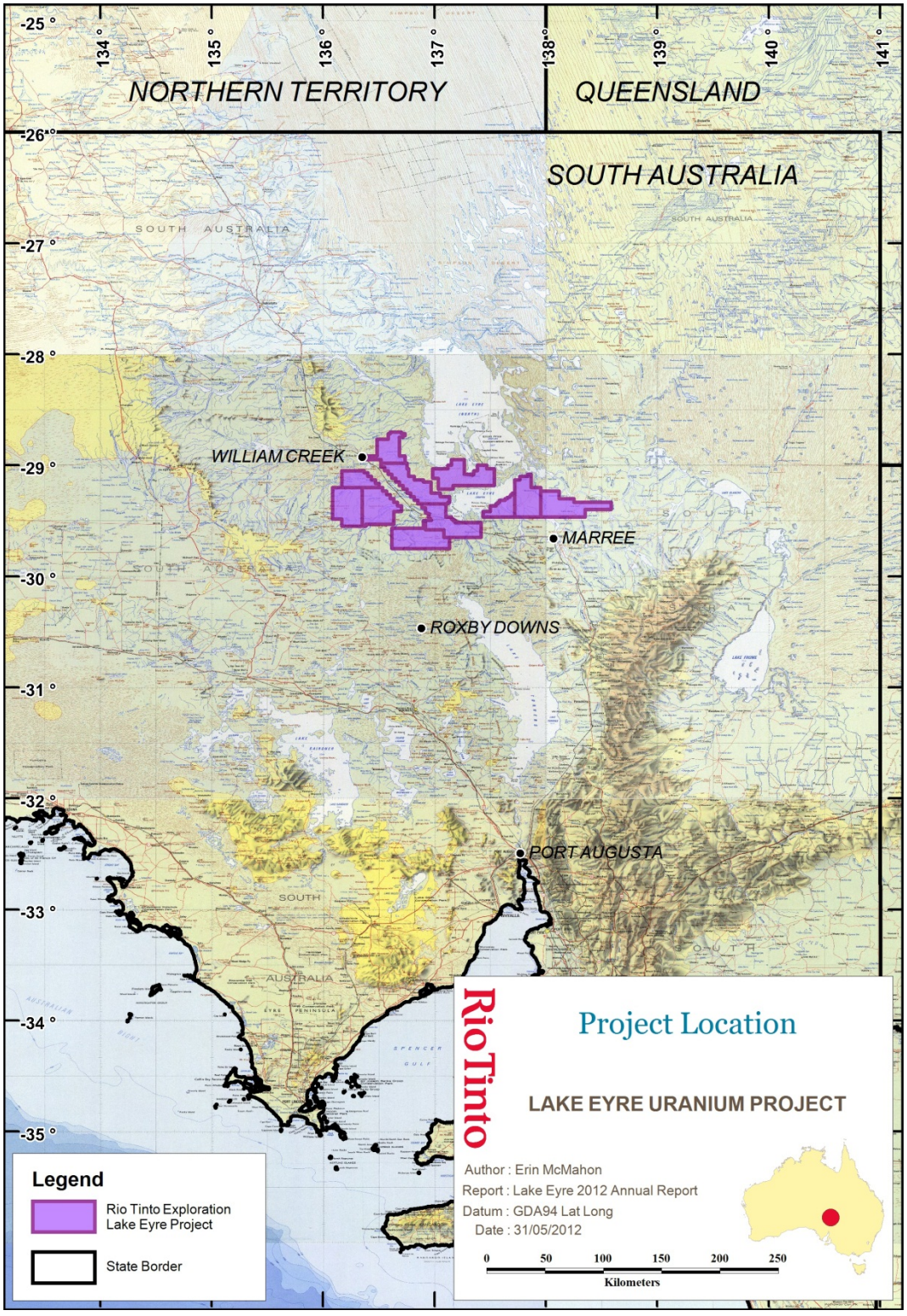


Figure 2: Lake Eyre Project Location Map

4.4 Exploration/Mining History

The Lake Eyre Project area has been extensively explored. A search of the SARIG tenement database returned forty four past holders with tenements intersecting the current RTX Lake Eyre tenements, with exploration occurring since the mid-1970s.

Due to the large number of explorers in the area only those with significant tenure overlaps, uranium exploration and exploration within the last 25 years were investigated. Companies which met these criteria, but did not conduct any exploration, have not been discussed below.

Status Minerals NL and Consolidated Rutile Ltd (1986-1990)

Status Minerals NL and Consolidated Rutile Ltd explored an area which now covers parts of RTX tenements EL 4737, EL 4740 and EL 4742 in the late 1980s. They explored for celestite, with work including market research, stream sediment, soil and bedrock sampling, and backhoe trenching and drilling. They defined a number of small celestite and strontium bearing limestone occurrences. The reason for the cessation of the project was not mentioned. (Butt & Barrett, 1988)

Tasman Resources NL (1998-2009)

Tasman Resources NL explored for various commodities over a period of approximately a decade in the area now partially covered by RTX tenements EL 4734, EL 4737, EL 4739 and EL 4740. Targets included IOCG-U, zinc, copper and base metals. Work on RTX ground included mainly data compilation and review, reprocessing of various geophysical data and geochemical surface sampling. More advanced exploration was only conducted at prospects outside of the current RTX Lake Eyre Project. Portions of Tasman tenements covering RTX ground were relinquished at various times due to a lack of anomalous results for any of the targeted commodities. (Glasson *et al.* 2008, Jeffress 2003)

Red Metal Ltd (2007-2009)

Red Metal Ltd explored for sedimentary and hardrock (kimberlite) diamonds within Mesozoic strata along the southern edge of the Peake and Denison Inliers from 2007 to 2009. The exploration covered parts of RTX tenements EL 4733 and EL 4740. Previous exploration data and available magnetic datasets were reviewed. Gravity surveys were planned over selected buried basement anomalies, however the ground was surrendered due to a change in company exploration priorities. (McKay 2009)

Thundelarra Exploration Ltd (2007-2008)

Thundelarra Exploration Ltd explored for epithermal and sedimentary uranium plus magmatic nickel and other base metals from 2007 to 2008, in an area which covers parts of RTX tenements EL 4720, EL 4738 and EL 4739. Existing exploration data and ASTER imagery was compiled and evaluated and a field geological and scintillometer assessment was conducted. Aerial radiometric anomalies were found to be associated with groundwater discharge zones, and were perhaps radon degassing. (Vieru & Moloney 2008)

Uranium Exploration Australia Ltd (2007-2010)

Uranium Exploration Australia Ltd explored for buried IOCG-U deposits from 2007 to 2012 in the area which is now RTX tenement EL 4734. Available geological and geophysical data was reviewed, with reprocessing and modelling of selected gravity data to identify coincident magnetic and gravity anomaly targets. No such anomalies were identified and the tenement was surrendered. (Cherry & Coppin 2010)

Barrick Gold of Australia Ltd (2007-2009)

Barrick Gold of Australia Ltd explored for IOCG-U deposits along the north-eastern margin of the Gawler Craton from 2007 to 2009. They conducted a helicopter-borne ground gravity survey in conjunction with PIRSA, which covers parts of RTX tenements EL 4738, EL 4739 and EL 4739. Interpretation of the gravity data was considered encouraging, with several anomalous areas identified, however tenements within the RTX Project area were relinquished. (Goldsmith & Mathews 2009)

Eromanga Uranium Limited (2007-2008)

Eromanga Uranium Limited explored for palaeochannel sandstone hosted uranium deposits within Mesozoic or Tertiary strata from 2007 to 2008. The north of their project was situated on parts of RTX tenements EL 4736 and EL 4735. They conducted ground-truthing of airborne radiometric anomalies and investigated outcropping prospective sandstone units. Four Tertiaty Eyre Formation surface sample assays (from just south of the RTX tenements) returned U readings of 9-40 ppm. It was determined that the source of uranium radiation was from weathered rocks below the basal Tertiary and Quaternary unconformities, not the targeted sandstone Formations. It was concluded that the prospectivity was much decreased and the licences were relinquished. (Abbott 2008)

4.5 Exploration Targets, Objectives and Rationale

Rio Tinto Exploration Pty Limited (RTX) is exploring for sandstone hosted uranium deposits within South Australia. Project generation utilising open file data identified the Cadna-owie Formation in the Eromanga Basin as the most prospective target for such a deposit. The Lake Eyre Project area was defined as a key target (Figure 3*)*.

Based on the project generation work carried out RTX applied for a block of 11 tenements which now make up the Lake Eyre Project.

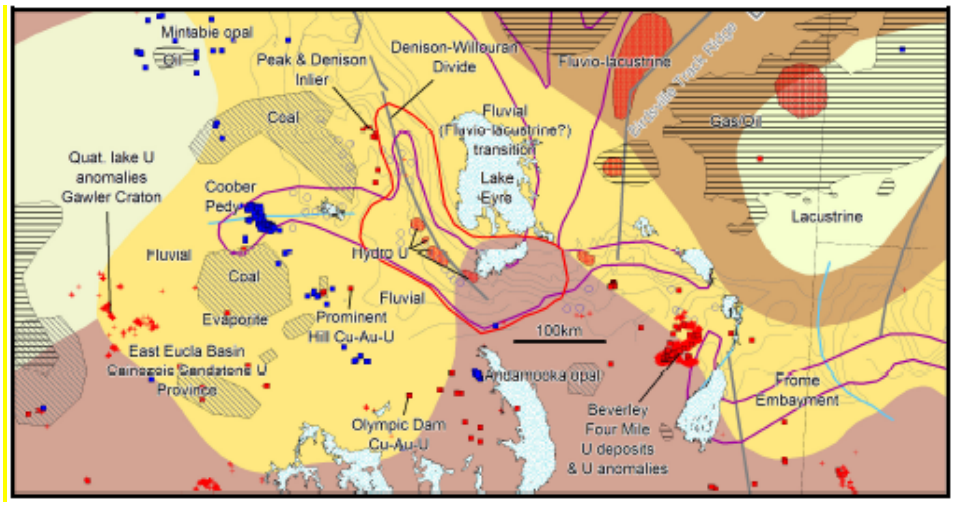


Figure 3: Lake Eyre Target (Bishop, 2010)

5 Geology

5.1 Regional Setting and Geological Mapping Results

The Lake Eyre Project is situated on five 1:250,000 map sheets: Warrina (SH5303), Lake Eyre (SH5304), Billa Kalina (SH5307), Curdimurka (SH5308) and Marree (SH5405).

The predominant hydrological features are the usually dry salt lakes Lake Eyre South, in the centre of the project, and Lake Eyre, to the north of the project. Most watercourses in the project area drain northerly into the Lake Eyre depression. The Willouran Range

(Adelaidean outcrop) occurs to the southeast of the project area and there are high plateaus and mesas in the southwest of the project. The remainder of the area is dominated by broad gibber plains, dunes and sand. A series of mound springs occur in the area, discharging from the underlying Great Artesian Basin. (Krieg *et al.* 1991)

Review of Geological Survey of SA maps shows that the surface geology of the project area is predominantly Tertiary and Quaternary alluvial, fluvial, aeolian and playa sediments with outcropping Cretaceous units in some areas. The southeastern part of the project (EL 4735, EL 4736 and EL 4742) contains outcropping areas of the Winton Formation, Mackunda Formation, Mt Howie Sandstone and Ooodnadatta Formation. The northwest of the project (EL 4733 and EL 4740) contains Oodnadatta Formation, Coorikiana Sandstone and Bulldog Shale surface outcrops. The southwest of the project (EL 4720, EL 4734, EL 4737, EL 4738 and EL 4739) is dominated by Bulldog Shale. Small areas of Cadna-owie Formation also outcrop in the far southwest and south central areas (EL 4737, EL 4738 and EL 4739) (Figure 4).

RTX did not conduct any geological mapping during the reporting period.

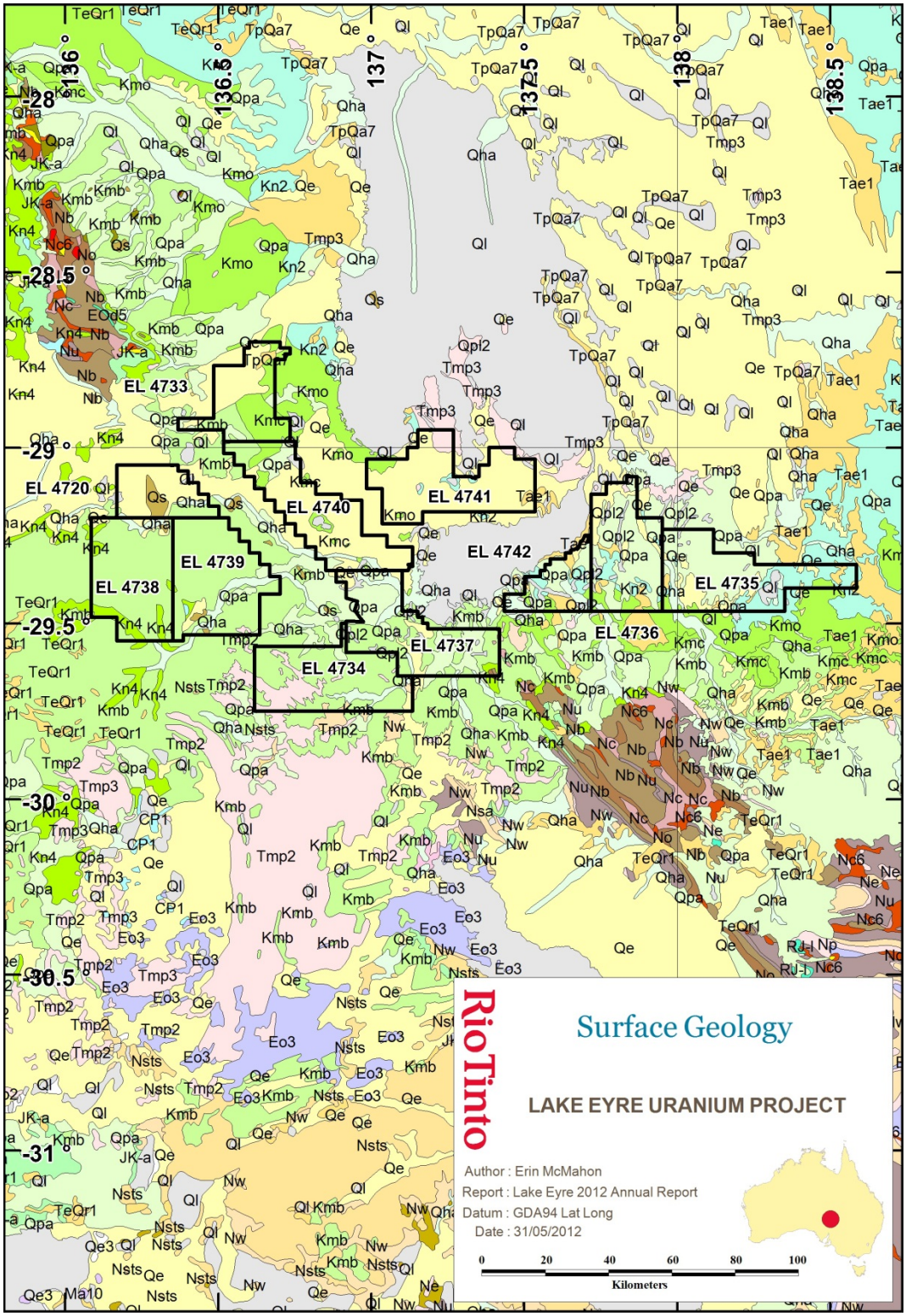


Figure 4: Lake Eyre Project Surface Geology Map

5.2 Structural Interpretation and Mineralisation Models

The Lake Eyre Project is situated over the Eromanga Basin or Great Artesian Basin. The Early Jurassic to Late Cretaceous, multi-aquifer basin covers over one million square kilometres in central and eastern Australia, including a 360,000 km^2 area in the northeast of South Australia. Figure 5 and Figure 6 provide a geological and stratigraphic summary of the Eromanga Basin. (PIRSA Flyer 2005)

The Eromanga Basin consists of three main sequences: the lower non-marine, the marine and the upper non-marine. The lower non-marine consists of fluvial sandstones interbedded with shales and discontinuous thin coals (Poolowanna Formation), overlain by a thick fine to coarse grained sandstone unit with granule and pebble layers and shale interclasts (Algebuckinga Sandstone). The lower non-marine sequence is prospective for oil and gas. (PIRSA Flyer 2005)

The marine sequence represents a transition from non-marine to marginal marine to open marine shale and sandstone. The Cadna-owie Formation which lies at the base of this sequence consists of non-marine to marine sandstone, siltstone, calcareous sandstone and pebbly sandstone. The Cadna-owie is overlain by the thick Marree Subgroup, which includes the siltstone and mudstone dominated Bulldog Shale and Oodnadatta Formation. In places the Coorikiana Sandstone is present between these two Formations. (PIRSA Flyer 2005)

The upper non-marine sequence consists of the Winton Formation, a mixture of lithic and feldspathic sandstone, mudstone, siltstone and minor conglomerate. Local coal, lignite and volcanic detritus are also present. (PIRSA Flyer 2005)

The centre of the basin is overlain by the younger Tertiary to Recent Lake Eyre Basin. The basin stratigraphy consists of the Eyre Formation (quartzose sandstone to minor pebbly sandstone and conglomerate), the Namba Formation (fine to medium grained sand, silt and thin dolomite beds) and the overlying Pliocene-Quaternary sediments. (PIRSA Flyer 2005, Moussavi-Harami 1998)

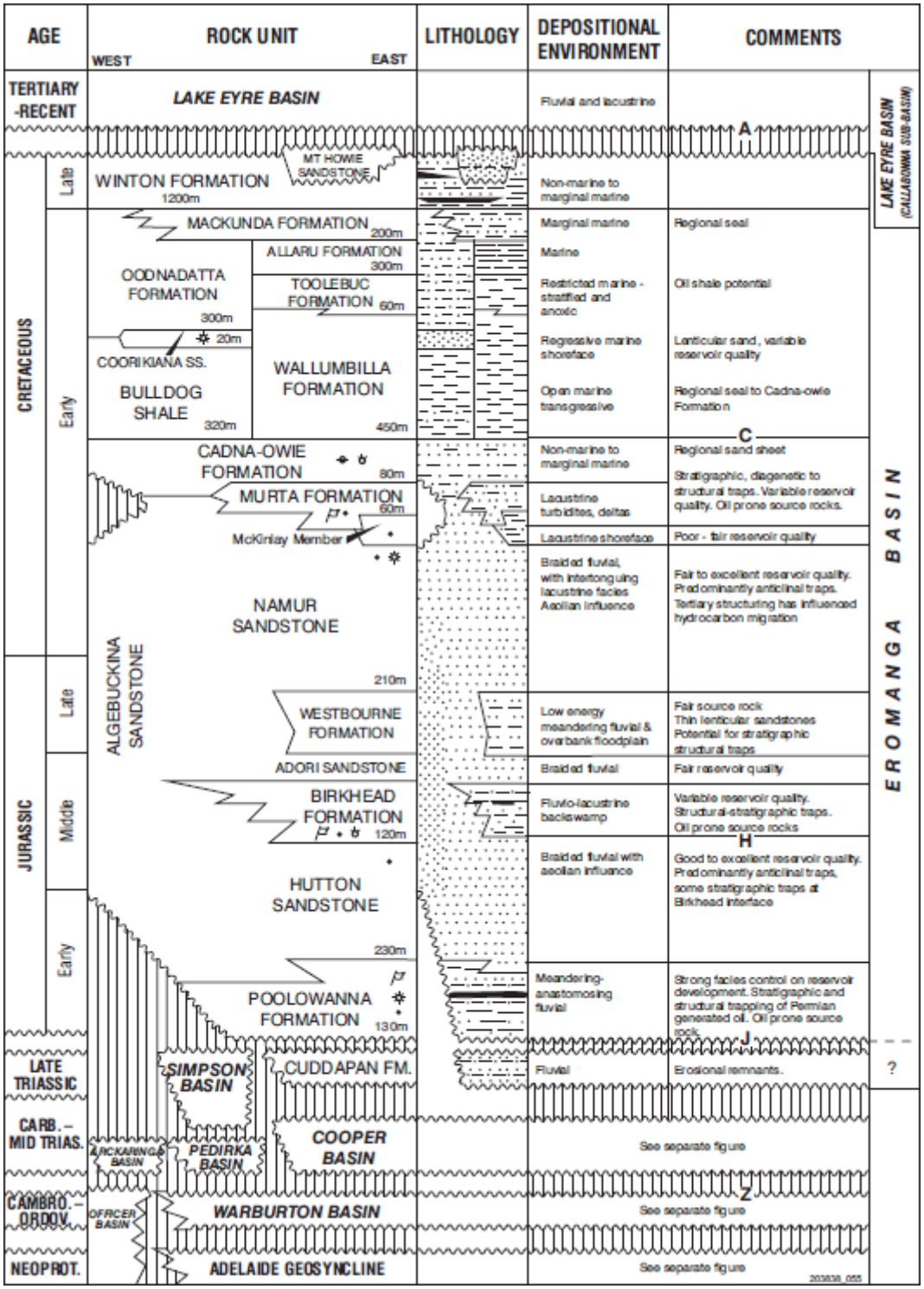


Figure 5: Geological Summary of the Eromanga Basin (Cooper Region) (PIRSA Flyer, 2005)

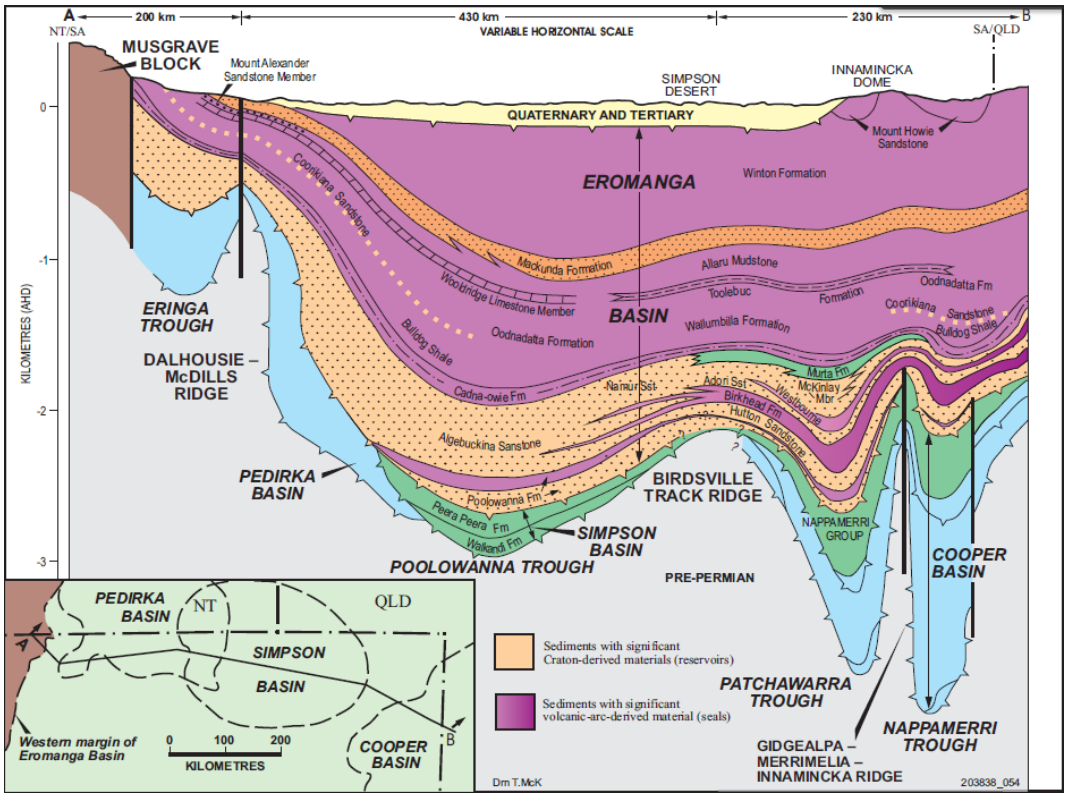


Figure 6: Schematic section across the Eromanga, Pedirka and Simpson Basins (PIRSA Flyer, 2005)

RTX is targeting the Cadna-owie Formation (or equivalent), an under-explored cretaceous sandstone aquifer with properties conducive to hosting a giant sandstone uranium deposit. The Cadna-owie is overlain by the Bulldog Shale aquitard, meaning potential uranium deposits may be suitable for in-situ leach mining.

Locally in the RTX Lake Eyre Project area the Cadna-owie Formation is shallower in the southwest and deeper in the northeast of the project. The project can be broken into three approximate southeast to northwest oriented zones based on the depth (above/below sea level) of the top of the Cadna-owie Formation.

The southwest zone consists of the four most south western tenements (EL 4720, EL 4734, EL 4738 and EL 4739). In this zone the top of the Cadna-owie Formation is between approximately 100m above sea level and 50m below sea level. Based on stratigraphic logging of drillholes in this area the Cadna-owie Formation increases from about 25m thickness in the south to around 90m thickness in the north. The Cadna-owie Formation outcrops in the far southwest of this zone.

The central zone contains two tenements (EL 4737 and EL 4740). In this zone the top of the Cadna-owie Formation is generally between approximately 50m and 250m below sea level and. A very small area of Cadna-owie Formation outcrop occurs in the far southeast of this zone.

The northeast zone contains five tenements (EL 4733, EL 4735, EL 4736, EL 4741 and EL 4742). In this zone the top of the Cadna-owie Formation is generally between approximately 250m and 600m below sea level (Figure 7).

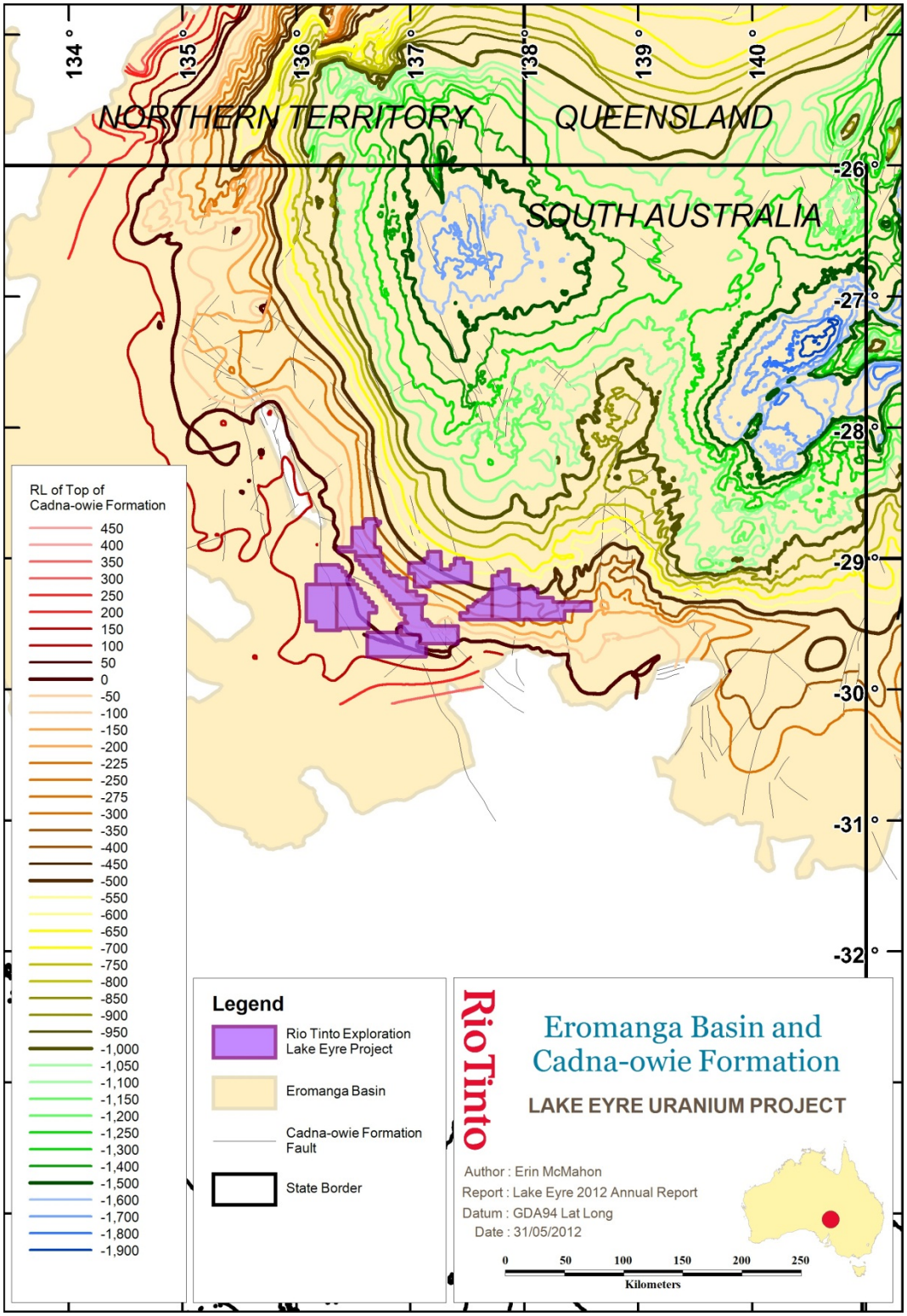


Figure 7: Lake Eyre Project Eromanga Basin and Cadna-owie Formation

6 Drilling

6.1 General overview

No drilling was completed by RTX however historical drillholes of interest were assessed at the DMITRE Core Library in Adelaide from 27 February to 2 March 2012.

Historic drillholes in and around the Lake Eyre Project area were reviewed to identify holes which had intersected the Cadna-owie Formation. Seven drillholes were identified: WLE 1A, DC09D01, SR 13/2, SR 12, SR 11, KH 1A and CLAYTON BORE 2. Three further holes intersected shallower Late Cretaceous and Tertiary sandstone units: MULOORINA 2, LAKE EYRE BORE SOUTH 8A and CROWS NEST 2 (Figure 8).

Four of the Cadna-owie holes are located in the southwest zone of the project. They are SR 13/2 (just north of EL 4720), SR 12 and SR 11 (in EL 4738) and KH 1A (just south of EL 4738). Three of the Cadna-owie holes are located in the northeast zone. They are WLE 1A (~40km north of EL 4733), DC09D01 (just north of EL 4733) and CLAYTON BORE 2 (just north of EL 4735). No previous explorer drillholes which intersect the Cadna-owie are located in the central zone.

Of the historic holes listed above KH 1A, SR 11, SR 12, SR 13/2, WLE 1A, CLAYTON BORE 2 LAKE EYRE BORE SOUTH 8A and CROWS NEST 2 had sufficient drillhole core or chips within the Cadna-owie Formation to analyse.

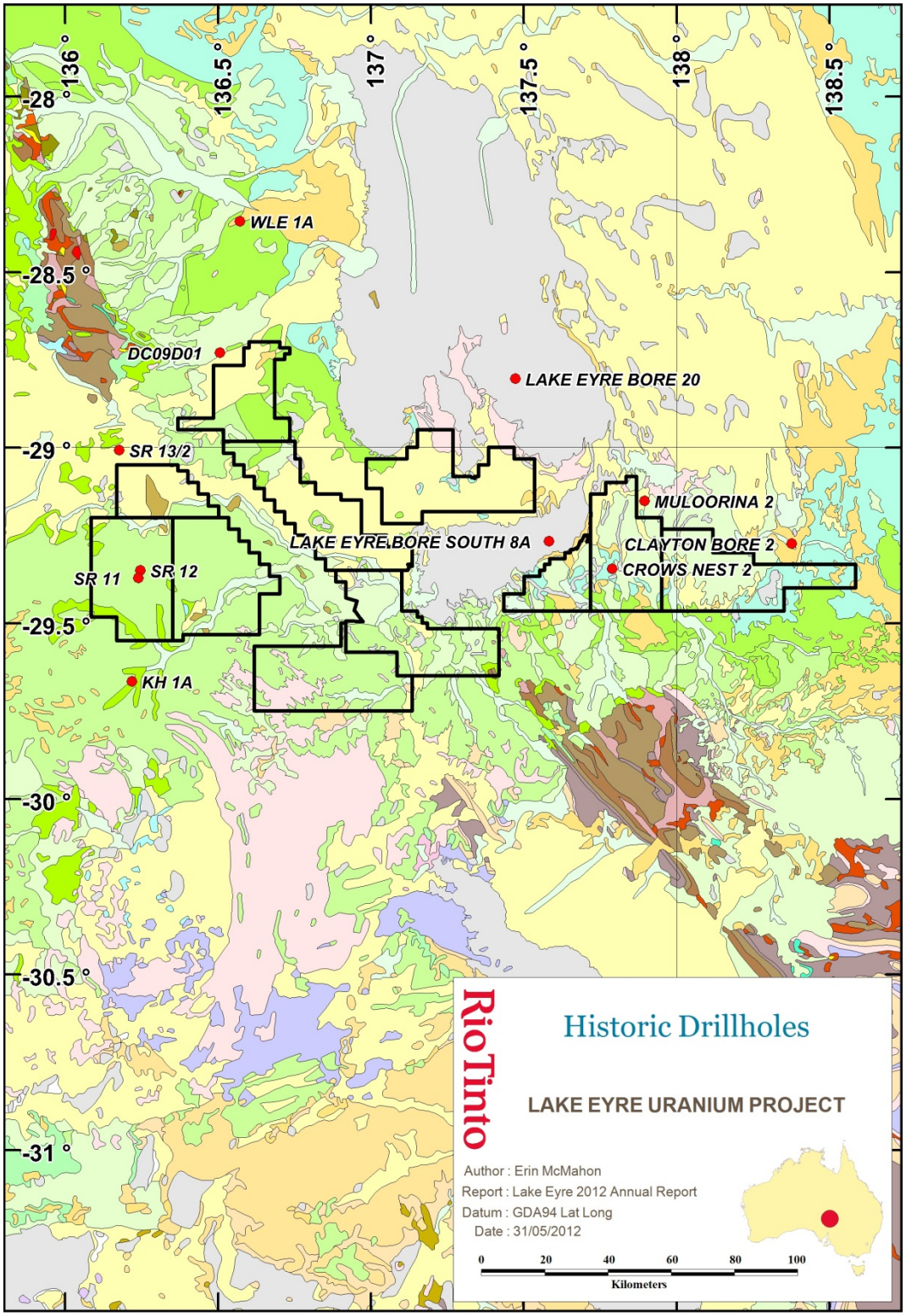


Figure 8: Lake Eyre Project Historic Drillholes

6.2 Drillhole Log Data

Geological logs were recorded for relevant sections of each drillhole. Handheld scintillometer and magnetic susceptibility readings were taken where sample was available in the Cadna-owie Formation. Some readings were also taken in other parts of the stratigraphy. Background scintillometer readings were approximately 40 to 50 CPS, with a maximum reading of 100 CPS. Where scintillometer readings were sufficiently above background (~60 CPS) a Niton handheld XRF unit was used to more accurately determine the uranium levels. The Niton uranium readings were then used to assist with the selection of samples for assay analysis.

KH 1A

KH1A is to the southwest of the Lake Eyre Project. According to the DMITRE stratigraphic logging KH 1A intersects the Cadna-owie from 4.5 to 29.5 m, which is underlain by the diamictite/shale Boorthanna Formation from 29.5m to the end of the hole at 196.7m. As the Cadna-owie was the focus 0 to 60m was viewed. The Cadna-owie had drill chip samples available and consisted of fine grained to pebbly quartz and feldspar rich sandstone showing strong surface oxidisation, particularly in the upper nine metres. The top thirty metres of the Boorthanna Formation consisted of grey-brown reduced fine to coarse sandstone with large sandstone clasts up to several centimetres across (diamictite) (Figure 9).

Scintillometer readings were not elevated in the Cadna-owie, however they were in the Boorthanna Formation. Niton readings suggested the upper 30m of the Boorthanna Formation has uranium levels of approximately 10ppm. The section of elevated readings was sampled for assay analysis. Details are provided in the Analytical Results section.

Figure 9: KH1A ~33m depth, example of Boorthanna Formation diamictite with elevated Niton uranium levels.

SR 11

SR 11 is in the west of the project, in the centre of tenement EL 4738. Drill chips from the Cadna-owie unit (52.6 to 85.6m) were viewed. The Cadna-owie consisted of grey to brown-grey material with poorly sorted, angular, medium to very coarse granules supported in a clay-matrix. The chips were generally of a reduced material however minor yellow and red staining in places suggests some oxidisation may have occurred. No elevated anomalous levels were detected.

SR 12

SR 12 lies 2.5km north of SR 11. The Cadna-owie was intersected from 40 to 82.1m. Drill chips showed it was similar to SR 11, however was clast supported, rather than matrix supported. No elevated gamma levels were detected.

SR 13/2

SR 13/2 is just to the north east of the project, with an 88 metre thick Cadna-owie intersection from 4 to 92m. Logging of four metre interval drill chip samples showed the sandstone unit varied in grainsize throughout from very fine to granular. Strongly oxidised zones of coarse sandstone were present from 0 to 4m and from 44 to 48m. A larger weakly oxidised zone of coarse sandstone was present at the base of the Cadna-owie, from 72 to 90m. There were no anomalous gamma levels recorded.

WLE 1A

WLE 1A is approximately 40km north of the western end of the project. Only six metres (275 to 281m) is recorded as Cadna-owie in the stratigraphic logging. This is underlain by a further fourteen metres (281 to 295m) of the Algebuckina Sandstone unit. A downhole gamma trace for WLE 1A was found in an historic report. It showed background levels of ~10 to 20cps for the entire hole above the Cadna-owie, with around 50cps in the Cadna-owie and Algebuckina.

Drill chips from 244 to 296m were logged, with no sample available for 260 to 280m (which includes the Cadna-owie). The available material was all logged as brown siltstone, with no sandstone logged. In an historic report only stratigraphic units are assigned to WLE 1A along the downhole gamma trace, with detailed geological logging not reported. It is therefore difficult to ascertain if there is a problem with the original logging or there is a mix up with the drillhole or samples. No elevated gamma levels were found in the assessed samples.

CLAYTON BORE 2

CLAYTON BORE 2 is located at the eastern end of the project, with a 62 metre thick Cadna-owie intersection at a depth of 486 to 548m. Re-logging confirmed 496 to 547m consisted of a reduced brown very fine to fine generally well sorted sandstone unit, with brown siltstone above and grey-brown siltstone below. No anomalous gamma readings were recorded.

CROWS NEST 2

CROWS NEST 2 is situated in the eastern end of the project, in tenement EL 4736. The hole was not deep enough to intersect the Cadna-owie. The hole intersected tertiary surface sediments, the Mackunda Formation from 2 to 53m and the Oodnadatta Formation from 53 to 71m. No elevated gamma readings were recorded.

MULOORINA 2 and LAKE EYRE BORE SOUTH 8A

Due to time constraints these holes were not logged, as they do not intersect the Cadna-owie Formation. They were quickly scanned with a handheld scintillometer, which returned no anomalous gamma readings.

6.3 Analytical Results

Twenty two samples were collected for assay analysis from hole KH 1A, where Niton analysis suggested slightly elevated uranium levels of ~10ppm. The samples consisted of three drill chip samples from 29 to 32m and nineteen core samples 32 to 60.5m.

The samples were analysed by ALS Chemex, Perth for the following elements via the following methods:

Elements	Method Code	Method Description	Instrument
SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO	ME-ICP06	Whole Rock Package – ICP-AES	ICP-AES
C	C-IR08	Total Carbon (Leco)	LECO
S	S-IR08	Total Sulphur (Leco)	LECO
Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zr	ME-MS81	38 element fusion ICP-MS	ICP-MS
As, Bi, Hg, Sb, Se, Te	ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
LOI	OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
Total	TOT-ICP06	Total Calculation for ICP06	ICP-AES
Ag, Cd, Co, Cu, Mo, Ni, Pb, Zn	ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
Au, Pt, Pd	PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS

Table 3: Assay Analysis Suite

Unfortunately the assay analysis results were not consistent with the Niton XRF results of ~10ppm U. The assays returned results of ~2.5ppm U. Full results are available in Appendix 4.

The results will be passed on to the DMITRE Core Library Facility and will be added to their public database.

7 Other Studies or Work

7.1 Heritage Agreement

Negotiations with traditional owners for land access are underway with RTX conducting a legal and commercial review of the documents to date. As a land access agreement is yet to be finalised no on-ground exploration activities were undertaken during the reporting period.

8 Expenditure Statement

The Lake Eyre Project first year expenditure commitment was $1,200,000. The actual expenditure amounted to $10,659.34. The remaining $1,189,340.66 will be carried over and added to the second year expenditure commitment.

A breakdown of the first year expenditure for each tenement is shown in the tables below. The majority of the expenditure related to a literature review and the DMITRE core library visit. A small amount was for land title rentals. Assay analysis costs were paid after the reporting period was finished and will be included in the next reporting period expenditure.

Tenement Number	Expenditure Period	Activity Literature Review, DMITRE Core Library Visit	Land Title Rentals	Total Expenditure 2001 to 2012	Cumulative Total Expenditure
EL 4720	4 April 2011 to 3 April 2012	557.86	60.00	**617.86**	617.86
EL 4733		1,115.72		**1,115.72**	1,115.72
EL 4734		1,115.72		**1,115.72**	1,115.72
EL 4735		1,115.72		**1,115.72**	1,115.72
EL 4736		1,115.72		**1,115.72**	1,115.72
EL 4737	3 May 2011 to 2 May 2012	1,115.72		**1,115.72**	1,115.72
EL 4738		1,115.72		**1,115.72**	1,115.72
EL 4739		557.86		**557.86**	557.86
EL 4740		557.86		**557.86**	557.86
EL 4741		1,115.72		**1,115.72**	1,115.72
EL 4742		1,115.72		**1,115.72**	1,115.72
Total Expenditure for all tenements		10,599.34	60.00	**10659.34**	10659.34

Table 4: Lake Eyre Project Tenement Expenditure Summary

9 Conclusions

Inspection of historic drillholes and assay analysis did not reveal any uranium mineralisation within the Cadna-owie Formation in the Lake Eyre Project. Discarding WLE 1A, which had logging inconsistencies, the remainder of the western holes contained evidence of small redox fronts within the Cadna-owie Formation. Shallower oxidised zones can be attributed to proximity to the surface. The deeper zones of weak oxidisation are evidence of oxidised fluids penetrating deeper into the basin within the Lake Eyre project, suggesting an environment conducive to uranium deposition.

The assessed holes were only located along the western margin of the project, with one hole in the east of the project, providing limited insight to the majority of the project area. Therefore, there is insufficient data to determine if an economic sandstone hosted uranium deposit is hosted within the Project.

The logging and assaying of the holes in the southwest zone of the project showed very few encouraging signs that indicate the presence of a sandstone hosted uranium deposit. The local stratigraphy tends to suggest that the targeted Cadna-owie Formation is too close to surface and potential source within the southwest corner of the project area to be able to develop a sandstone hosted deposit. There appears to be little organic matter in the sandstone and the redox fronts are extremely small. Therefore it was decided tenements in the southwest part of the project, EL 4720, EL 4734, EL 4738 and EL 4739 should be relinquished.

It is recommended that exploration be focussed on the deeper part of the Eromanga Basin where transport and reduction mechanisms would have had a better chance of taking effect.

RTX project generation associated with discussions with DMITRE geologists and the information assessed and collected during the literature review suggests that the remainder of the Lake Eyre Project area could potentially host a sandstone hosted uranium deposit. There are adequate uranium source rocks and fluid flow within the aquifer to transport the uranium into the basin. Elevated uranium peaks have been noted in water bores many hundreds of kilometres into the basin. The target areas contain fluid mixing zones and discharge springs. The Cadna-owie drilling intersections viewed display varying oxidation states within the unit and the area is also known to contain hydrocarbon deposits, both providing environments conducive to uranium deposition. The project is also close to Cainozoic sandstone uranium deposits.

Further exploration will be conducted on the remaining seven tenements to generate more defined uranium targets.

10 References

Abbott, S 2008, *Callanna and Marree areas (Marree West Project). Combined first annual/final report to licences' expiry/surrender for the period 22/10/2007 to 21/10/2008,* Eromanga Uranium Limited

Butt, BC & Barrett, PJ, 1988, *Curdimurka. Progress reports for the period 19/12/86 to 18/6/88,* Status Minerals NL & Consolidated Rutile Ltd

Cherry, J & Coppin, T, 2010, *Twin Hill. Annual and final reports to licence expiry/surrender for the period 30/7/2007 to 29/7/2010,* Uranium Exploration Australia Ltd

Clarke, DB, 1982, *Kadlongaroo Hill Progress and Final Reports for the Period 11/8/81 to 10/8/82,* Santos Ltd

Glasson, MJ, Moyle, AJ, Thompson, AD & Robinson, W, 2008, *Bopeechee, Final report at licence expiry/surrender for the period 16/11/2000 to 27/7/2008,* Tasman Resources NL

Golsdsmith, S & Mathews, LR 2009, *Codna Hill, Pumper Dam, Welcome Bore and Beresford Hill (part of Curdimurka Project). Data release at licences' joint surrender on 1/12/2008: combined first annual report for the period 20/8/2007 to 26/8/2008,* Barrick Gold of Australia Ltd

Jeffress, GM, 2003, *Depot Creek, Myrtle Springs West, Mulgaria Creek, Wangianna and Bluebush Dam [Lake Torrens Project combined ELs reporting group]. First partial relinquishment report for the period 24/9/99 to 31/12/2002,* Tasman Resources NL

Krieg, GW, Rogers PA, Callen, RA, Freeman, PJ, Alley, NF & Forbes, BG, 1991, *Explanatory Notes for the Curdimurka 1:250000 Geological Map,* Department of Mines and Energy South Australia

McKay, G, 2009, *Irrapatana. First annual and final reports to licence expiry/surrender for the period 2/7/2007 to 1/7/2008,* Red Metal Ltd

Moussavi-Harami , R, 1998, 'Tertiary Stratigraphy and Tectonics, Eromanga Basin Region', *MESA,* Vol. 8

PIRSA Flyer, 2005, *Petroleum & Geothermal in South Australia,* PIRSA

Price, DG, Raetz, MC, Rau, BA, Lowder, GG & Fander, HW, 1980, *West Lake Eyre Progress and Final Reports to Licence Surrender for the Period 25/1/80 to 13/6/80*, Dampier Mining Co Ltd

Vieru, C & Moloney, M, 2008, *Warriner Creek. Combined first annual / final report at licence expiry/surrender for the period 17/5/2007 to 16/5/2008,* Thundelarra Exploration Ltd

Walker, S, 1999, 'Beverley Uranium Project', *MESA*, vol. 13

11 Appendices

The data in the following appendices is also available in digital format in the files accompanying this report:

Lake_Eyre_01_2012_A_DrillCollars.txt
Lake_Eyre_02_2012_A_Lithology.txt
Lake_Eyre_03_2012_A_Assay.txt
Lake_Eyre_04_2012_A_Survey.txt
Lake_Eyre_05_2012_A_Sample.txt
Lake_Eyre_18_2012_A_PhysProps.txt

11.1 Appendix 1: Collar Data

H0002	Version	3										
H0003	Date_generated	30-May-12										
H0004	Reporting_period_end_date	2-May-12										
H0005	State	SA										
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	8										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt										
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt										
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt										
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	hole collar										
H0501	Geodetic_datum	GDA 94										
H0502	Vertical_datum	AHD										
H0503	Projection	UTM										
H0530	Coordinate_system	Projected										
H0531	Projection_zone	53	54									
H0900	Comments	N/A										
H1000	HOLEID	PROJECTCODE	ENDDATE	DEPTH	EAST	NORTH	GRIDNAME	D_SurveyMethod	D_Commodity	D_Property	D_Company	CollarComments
H1001					metre	metre						
D	CLAYTON BORE 2	LAKEEYRE	12/11/1983	570	245022	6758997	GDA94_MGA_54	PublishedReport			DeptMinesEnergySA	Information from SARIG database: Commodity Water
D	CROWS NEST 2	LAKEEYRE	23/05/1985	71	770823	6750624.04	GDA94_MGA_53	PublishedReport			DeptMinesEnergySA	Information from SARIG database: Previous Unit Number: 6439-22 (coordinates mistakenly changed)
D	KH 1A	LAKEEYRE	20/02/1982	196.7	617868.87	6717691.75	GDA94_MGA_53	PublishedReport	Coal	EL 869	Santos	Information from SARIG database: Commodities coal and oil shale
D	LAKE EYRE BORE SOUTH 8A	LAKEEYRE	17/10/1961	71.63	750916.77	6759820.11	GDA94_MGA_53	PublishedReport			DeptMinesEnergySA	Information from SARIG database
D	SR 11	LAKEEYRE	11/11/1977	103.9	620228.87	6750371.94	GDA94_MGA_53	PublishedReport	Gold	EL 327	DampierMining	Information from SARIG database. Commodities Gold, Copper, Uranium
D	SR 12	LAKEEYRE	31/05/1978	399	620928.89	6752771.82	GDA94_MGA_53	PublishedReport	Gold	EL 327	DampierMining	Information from SARIG database: 258m of NQ rods lost down hole. Commodities Gold, Copper, Uranium
D	SR 13/2	LAKEEYRE	26/03/1979	900.27	614568.64	6790682.88	GDA94_MGA_53	PublishedReport	Gold	EL 341	DampierMining	Information from SARIG database. Commodities Gold, Copper, Uranium
D	WLE 1A	LAKEEYRE	22/02/1980	296.1	653994.82	6862447.14	GDA94_MGA_53	PublishedReport	Gold	EL 583	DampierMining	Information from SARIG database. Commodities Gold, Base Metals

11.2 Appendix 2: Survey Data

H0002	Version	3										
H0003	Date_generated	30-May-12										
H0004	Reporting_period_end_date	2-May-12										
H0005	State	SA										
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	8										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt										
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt										
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt										
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	hole survey										
H0501	Geodetic_datum	GDA 94										
H0502	Vertical_datum	AHD										
H0503	Projection	UTM										
H0530	Coordinate_system	Projected										
H0531	Projection_zone	53	54									
H0532	Surveying_instrument	N/A										
H0533	Surveying_company	N/A										
H0900	Comments	N/A										
H1000	HOLEID	PROJECTCODE	DEPTH	D_SurveyMethod	AZI	DIP	GRIDNAME	Date_Surveyed	Survey_Company	SurveyComments		
H1001												
D	CLAYTON BORE 2	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_54	12/11/1983	UNKN			
D	CROWS NEST 2	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	23/05/1985	UNKN			
D	KH 1A	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	20/02/1982	UNKN			
D	LAKE EYRE BORE SOUTH 8A	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	17/10/1961	UNKN			
D	SR 11	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	11/11/1977	UNKN			
D	SR 12	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	31/05/1978	UNKN			
D	SR 13/2	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	26/03/1979	UNKN			
D	WLE 1A	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	22/02/1980	UNKN			

11.3 Appendix 3: Sample Data

H0002	Version	3										
H0003	Date_generated	30-May-12										
H0004	Reporting_period_end_date	2-May-12										
H0005	State	SA										
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	22										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt										
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt										
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt										
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	downhole samples										
H0600	Sample_code	DCore1QSw	DChipUnk									
H0601	Sample_type	DCore1QSw	DChipUnk									
H0602	Sample_description	Quarter Core	Drill Chips									
H0900	Comments	N/A										
H1000	SAMPLEID	HOLEID	SAMPLETYPE	SAMPFROM	Sampler	SAMPTO	SampleDate	SampComments				
H1001			metre	metre								
D	10221804	KH 1A	DChipUnk	29	Erin McMahon	30	40970	Historic sample ID from DMITRE system: 1923324,sampled from historic drillhole, no chain of custody				
D	10221805	KH 1A	DChipUnk	30	Erin McMahon	31	40970	Historic sample ID from DMITRE system: 1923325,sampled from historic drillhole, no chain of custody				
D	10221806	KH 1A	DChipUnk	31	Erin McMahon	32	40970	Historic sample ID from DMITRE system: 1923326,sampled from historic drillhole, no chain of custody				
D	10221807	KH 1A	DCore1QSw	32	Erin McMahon	32.9	40970	Historic sample ID from DMITRE system: 1923327,sampled from historic drillhole, no chain of custody				
D	10221808	KH 1A	DCore1QSw	32.9	Erin McMahon	34.2	40970	Historic sample ID from DMITRE system: 1923328,sampled from historic drillhole, no chain of custody				

D	10221809	KH 1A	DCore1QSw	34.2	Erin McMahon	36.3	40970	Historic sample ID from DMITRE system: 1923329,sampled from historic drillhole, no chain of custody				
D	10221810	KH 1A	DCore1QSw	36.3	Erin McMahon	37.9	40970	Historic sample ID from DMITRE system: 1923330,sampled from historic drillhole, no chain of custody				
D	10221811	KH 1A	DCore1QSw	37.9	Erin McMahon	39.4	40970	Historic sample ID from DMITRE system: 1923331,sampled from historic drillhole, no chain of custody				
D	10221812	KH 1A	DCore1QSw	39.4	Erin McMahon	40.9	40970	Historic sample ID from DMITRE system: 1923332,sampled from historic drillhole, no chain of custody				
D	10221813	KH 1A	DCore1QSw	40.9	Erin McMahon	42.5	40970	Historic sample ID from DMITRE system: 1923333,sampled from historic drillhole, no chain of custody				
D	10221814	KH 1A	DCore1QSw	42.5	Erin McMahon	43.8	40970	Historic sample ID from DMITRE system: 1923334,sampled from historic drillhole, no chain of custody				
D	10221815	KH 1A	DCore1QSw	43.8	Erin McMahon	45.4	40970	Historic sample ID from DMITRE system: 1923335,sampled from historic drillhole, no chain of custody				
D	10221816	KH 1A	DCore1QSw	45.4	Erin McMahon	47	40970	Historic sample ID from DMITRE system: 1923336,sampled from historic drillhole, no chain of custody				
D	10221817	KH 1A	DCore1QSw	47	Erin McMahon	48.5	40970	Historic sample ID from DMITRE system: 1923337,sampled from historic drillhole, no chain of custody				
D	10221818	KH 1A	DCore1QSw	48.5	Erin McMahon	49.9	40970	Historic sample ID from DMITRE system: 1923338,sampled from historic drillhole, no chain of custody				
D	10221819	KH 1A	DCore1QSw	49.9	Erin McMahon	51.3	40970	Historic sample ID from DMITRE system: 1923339,sampled from historic drillhole, no chain of custody				
D	10221820	KH 1A	DCore1QSw	51.3	Erin McMahon	52.8	40970	Historic sample ID from DMITRE system: 1923340,sampled from historic drillhole, no chain of custody				
D	10221821	KH 1A	DCore1QSw	52.8	Erin McMahon	54.4	40970	Historic sample ID from DMITRE system: 1923341,sampled from historic drillhole, no chain of custody				
D	10221822	KH 1A	DCore1QSw	54.4	Erin McMahon	56	40970	Historic sample ID from DMITRE system: 1923342,sampled from historic drillhole, no chain of custody				
D	10221823	KH 1A	DCore1QSw	56	Erin McMahon	57.5	40970	Historic sample ID from DMITRE system: 1923343,sampled from historic drillhole, no chain of custody				
D	10221824	KH 1A	DCore1QSw	57.5	Erin McMahon	59.1	40970	Historic sample ID from DMITRE system: 1923344,sampled from historic drillhole, no chain of custody				
D	10221825	KH 1A	DCore1QSw	59.1	Erin McMahon	60.5	40970	Historic sample ID from DMITRE system: 1923345,sampled from historic drillhole, no chain of custody				

11.4 Appendix 4: Assay Data

H0002	Version	3											
H0003	Date_generated	30-May-12											
H0004	Reporting_period_end_date	2-May-12											
H0005	State	SA											
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742	
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd											
H0102	Project_name	Lake Eyre											
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd											
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405							
H0151	100K_map_sheet_number	N/A											
H0152	50K_map_sheet_number	N/A											
H0153	25K_map_sheet_number	N/A											
H0200	Start_date_of_data_acquisition	27-Feb-12											
H0201	End_date_of_data_acquisition	2-Mar-12											
H0202	Data_format	SL3											
H0203	Number_of_data_records	22											
H0204	Date_of_metadata_update	30-May-12											
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt											
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt											
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt											
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt											
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt											
H0307	Lithology_code_file	N/A											
H0308	File Verification List	N/A											
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt											
H0400	Drill_code	UNKN											
H0402	Drill_description	UNKN											
H0500	Feature_type	downhole assays											
H0600	Sample_code	DCore1QSw	DChipUnk										
H0601	Sample_type	DCore1QSw	DChipUnk										
H0602	Sample_description	Quarter Core	Drill Chips										
H0702	Job_no	PH12081087											
H0800	Assay_code	ALS-PERTH											
H0801	Assay_company	ALS Chemex Perth											
H0802	Assay_description	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS42	OA-GRA05	TOT-ICP06	ME-4ACD81	PGM-MS24			
H0900	Comments	N/A											

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2
H1001			metre	metre	%	%	%	%	%	%	%	%	%
H1002					ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
H1003					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	87.4	5.89	1.65	0.06	0.15	0.21	1.61	<0.01	0.28
D	10221805	KH 1A	30	31	87.2	6.51	1.74	0.11	0.33	0.18	1.71	<0.01	0.31
D	10221806	KH 1A	31	32	81.9	8.03	2.28	0.52	0.6	0.24	2.16	<0.01	0.36
D	10221807	KH 1A	32	32.9	75.4	10.15	4.24	0.31	1.21	0.17	2.89	0.01	0.46
D	10221808	KH 1A	32.9	34.2	74.1	10.55	4.47	0.31	1.28	0.22	2.99	0.01	0.46
D	10221809	KH 1A	34.2	36.3	76.1	10.15	4.19	0.31	1.25	0.21	2.92	0.01	0.45
D	10221810	KH 1A	36.3	37.9	74.5	11	4.67	0.32	1.39	0.28	3.19	0.01	0.47
D	10221811	KH 1A	37.9	39.4	73.5	10.7	4.48	0.33	1.37	0.31	3.11	0.01	0.46
D	10221812	KH 1A	39.4	40.9	75.5	10.45	4.15	0.32	1.36	0.31	3.04	0.01	0.46
D	10221813	KH 1A	40.9	42.5	72.1	10.9	4.16	0.31	1.43	0.39	3.14	0.01	0.47
D	10221814	KH 1A	42.5	43.8	74.2	10.55	3.93	0.39	1.43	0.44	3.09	0.01	0.47
D	10221815	KH 1A	43.8	45.4	74.9	10.95	3.57	0.99	1.41	0.54	3.25	0.01	0.44
D	10221816	KH 1A	45.4	47	71.8	10.7	3.35	1.07	1.45	0.54	3.14	0.01	0.46
D	10221817	KH 1A	47	48.5	72.8	10.3	3.37	1.14	1.48	0.47	2.95	0.01	0.45
D	10221818	KH 1A	48.5	49.9	73.8	10.4	3.38	1.08	1.61	0.54	3.09	0.01	0.44
D	10221819	KH 1A	49.9	51.3	73.1	11.25	4.02	1.08	1.6	0.58	3.15	0.01	0.5
D	10221820	KH 1A	51.3	52.8	72.2	11.2	3.9	1.07	1.56	0.66	3.16	0.01	0.48
D	10221821	KH 1A	52.8	54.4	73.5	10.65	3.5	1.04	1.66	0.64	3.14	0.01	0.46
D	10221822	KH 1A	54.4	56	74.4	10.7	3.49	1.08	1.5	0.61	3.03	0.01	0.47
D	10221823	KH 1A	56	57.5	73.5	10.75	3.52	1.04	1.53	0.65	3.04	0.01	0.47
D	10221824	KH 1A	57.5	59.1	73.6	10.6	3.49	1.26	1.68	0.7	3.13	0.01	0.45
D	10221825	KH 1A	59.1	60.5	73.2	10.7	3.54	1.1	1.52	0.67	3.02	0.01	0.46

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	MnO	P2O5	SrO	BaO	C	S	Ba	Ce	Cr
H1001			metre	metre	%	%	%	%	%	%	ppm	ppm	ppm
H1002					ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81
H1003					0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.5	10
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	0.01	0.03	0.01	0.07	0.16	0.47	570	45.3	30
D	10221805	KH 1A	30	31	0.01	0.04	0.01	0.12	0.23	0.44	920	53.1	40
D	10221806	KH 1A	31	32	0.04	0.1	0.01	0.05	0.36	0.35	469	62.5	50
D	10221807	KH 1A	32	32.9	0.15	0.12	0.01	0.06	0.51	0.05	498	74.4	60
D	10221808	KH 1A	32.9	34.2	0.14	0.11	0.01	0.06	0.49	0.06	525	76.1	60
D	10221809	KH 1A	34.2	36.3	0.12	0.1	0.01	0.07	0.46	0.05	561	75	60
D	10221810	KH 1A	36.3	37.9	0.11	0.12	0.01	0.08	0.44	0.1	620	78	60
D	10221811	KH 1A	37.9	39.4	0.1	0.12	0.01	0.06	0.43	0.04	515	76.9	60
D	10221812	KH 1A	39.4	40.9	0.1	0.11	0.01	0.06	0.39	0.03	515	77.5	70
D	10221813	KH 1A	40.9	42.5	0.09	0.12	0.01	0.07	0.37	0.04	565	76.9	60
D	10221814	KH 1A	42.5	43.8	0.09	0.1	0.01	0.09	0.37	0.04	721	79.5	60
D	10221815	KH 1A	43.8	45.4	0.08	0.11	0.01	0.09	0.41	0.06	742	77.8	60
D	10221816	KH 1A	45.4	47	0.07	0.1	0.01	0.07	0.4	0.04	618	77.7	60
D	10221817	KH 1A	47	48.5	0.07	0.11	0.01	0.07	0.5	0.04	567	79.1	60
D	10221818	KH 1A	48.5	49.9	0.06	0.09	0.01	0.08	0.41	0.05	666	78.8	70
D	10221819	KH 1A	49.9	51.3	0.08	0.12	0.01	0.07	0.46	0.05	567	83.7	70
D	10221820	KH 1A	51.3	52.8	0.08	0.12	0.01	0.07	0.45	0.04	585	81.8	70
D	10221821	KH 1A	52.8	54.4	0.06	0.11	0.01	0.06	0.38	0.03	540	84.1	70
D	10221822	KH 1A	54.4	56	0.07	0.11	0.01	0.09	0.38	0.05	787	80.1	70
D	10221823	KH 1A	56	57.5	0.07	0.1	0.01	0.06	0.39	0.04	526	79.6	70
D	10221824	KH 1A	57.5	59.1	0.07	0.1	0.01	0.06	0.42	0.04	498	76.7	60
D	10221825	KH 1A	59.1	60.5	0.07	0.11	0.01	0.06	0.4	0.03	536	80.3	70

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
H1001			metre	metre	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002					ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
H1003					0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	1.98	2.72	1.68	0.63	8	2.91	5	0.6	24.1
D	10221805	KH 1A	30	31	3.04	3.62	2.07	0.88	9.1	4.19	4.5	0.76	26.1
D	10221806	KH 1A	31	32	4.45	4.32	2.57	0.97	11.2	4.95	5.3	0.95	30.7
D	10221807	KH 1A	32	32.9	7.37	4.31	2.55	1.05	14.5	5.07	6.1	0.94	36.7
D	10221808	KH 1A	32.9	34.2	7.59	4.25	2.48	1.07	14.3	5.07	5.3	0.92	37.8
D	10221809	KH 1A	34.2	36.3	7.67	4.34	2.47	1.05	14.4	4.93	5.5	0.9	37.4
D	10221810	KH 1A	36.3	37.9	8.04	4.45	2.57	1.12	15.2	5.26	5.2	0.97	39.4
D	10221811	KH 1A	37.9	39.4	7.92	4.54	2.48	1.15	14.5	5.38	5.3	0.97	38.2
D	10221812	KH 1A	39.4	40.9	8.17	4.43	2.56	1.11	14.9	5.05	5.4	0.93	38.7
D	10221813	KH 1A	40.9	42.5	8.23	4.76	2.67	1.13	15.2	5.41	5.4	1	38.6
D	10221814	KH 1A	42.5	43.8	8.3	4.57	2.64	1.11	14.8	5.31	5.9	0.95	39.5
D	10221815	KH 1A	43.8	45.4	8.16	4.37	2.54	1.07	14.9	5.25	4.8	0.93	38.9
D	10221816	KH 1A	45.4	47	8.14	4.17	2.46	1.08	14.3	4.96	5.2	0.9	39.2
D	10221817	KH 1A	47	48.5	8.18	4.55	2.62	1.18	14.8	4.98	5.4	0.94	38.8
D	10221818	KH 1A	48.5	49.9	8.47	4.3	2.55	1.14	15.8	4.8	5.4	0.89	38.8
D	10221819	KH 1A	49.9	51.3	9.12	4.46	2.54	1.25	16.6	4.91	6	0.91	41.2
D	10221820	KH 1A	51.3	52.8	8.82	4.35	2.57	1.19	16.7	4.87	6.6	0.9	39.9
D	10221821	KH 1A	52.8	54.4	8.73	4.4	2.56	1.18	15.9	4.96	5.3	0.9	41
D	10221822	KH 1A	54.4	56	8.61	4.35	2.44	1.14	15.6	4.8	5.3	0.86	38.7
D	10221823	KH 1A	56	57.5	8.51	4.29	2.52	1.12	15.7	4.7	5.8	0.88	38.9
D	10221824	KH 1A	57.5	59.1	8.13	4.01	2.3	1.08	14.9	4.51	4.7	0.81	37.6
D	10221825	KH 1A	59.1	60.5	8.56	4.4	2.62	1.16	15.4	4.6	5.7	0.9	39

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta
H1001			metre	metre	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002					ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
H1003					0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	0.26	7.9	18.4	5.35	65.6	3.51	7	72	0.7
D	10221805	KH 1A	30	31	0.31	8.8	23.3	6.53	74.1	4.51	5	118	0.8
D	10221806	KH 1A	31	32	0.36	9.7	25.4	7.11	94	5.1	4	115	0.8
D	10221807	KH 1A	32	32.9	0.37	12.2	29.3	8.39	126.5	5.7	161	68.6	1
D	10221808	KH 1A	32.9	34.2	0.35	11.9	29.6	8.55	128	5.85	106	69.7	1
D	10221809	KH 1A	34.2	36.3	0.35	12.1	29.3	8.37	128.5	5.68	91	70	1
D	10221810	KH 1A	36.3	37.9	0.37	12.5	31	8.94	135.5	6.02	78	72.8	1.1
D	10221811	KH 1A	37.9	39.4	0.36	11.8	30.4	8.67	131.5	5.96	73	71.9	1
D	10221812	KH 1A	39.4	40.9	0.36	12.2	30	8.61	134.5	5.85	59	71.6	1
D	10221813	KH 1A	40.9	42.5	0.4	12.2	32.1	9.16	136.5	6.2	54	73	1.1
D	10221814	KH 1A	42.5	43.8	0.37	12.5	31	9.05	135	6.02	6	78.3	1.1
D	10221815	KH 1A	43.8	45.4	0.36	12	31.1	8.86	142	6.02	5	81.9	1.1
D	10221816	KH 1A	45.4	47	0.35	11.7	30.3	8.89	133	5.9	5	84.7	1.1
D	10221817	KH 1A	47	48.5	0.39	13	32.1	9.51	135.5	5.92	4	90.1	1.1
D	10221818	KH 1A	48.5	49.9	0.39	12.3	31.8	9.5	140	5.73	4	92.6	1.1
D	10221819	KH 1A	49.9	51.3	0.38	14.2	33	9.91	145	6.14	5	95.9	1.2
D	10221820	KH 1A	51.3	52.8	0.39	13.8	32.4	9.79	142.5	6.03	4	99	1.2
D	10221821	KH 1A	52.8	54.4	0.38	12.8	32.6	9.87	142.5	6.03	4	94.6	1.1
D	10221822	KH 1A	54.4	56	0.37	12.8	31.3	9.33	141.5	5.65	4	97.3	1.1
D	10221823	KH 1A	56	57.5	0.38	12.8	31	9.26	141	5.64	4	96.5	1.1
D	10221824	KH 1A	57.5	59.1	0.35	11.5	29.7	8.83	135	5.51	4	95.5	1
D	10221825	KH 1A	59.1	60.5	0.4	12.2	31.9	9.56	138.5	5.81	4	99.2	1.1

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Tb	Th	Tl	Tm	U	V	W	Y	Yb
H1001			metre	metre	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002					ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
H1003					0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	0.46	11.5	<0.5	0.27	1.93	44	5	16.2	1.91
D	10221805	KH 1A	30	31	0.64	12.15	<0.5	0.33	2.1	52	5	20	2.24
D	10221806	KH 1A	31	32	0.75	11.85	<0.5	0.39	2.05	61	7	26.4	2.58
D	10221807	KH 1A	32	32.9	0.76	14.65	0.5	0.41	2.36	74	3	26.4	2.7
D	10221808	KH 1A	32.9	34.2	0.77	14.8	0.5	0.39	2.43	74	2	25.2	2.6
D	10221809	KH 1A	34.2	36.3	0.76	14.6	0.5	0.39	2.66	73	2	24.6	2.65
D	10221810	KH 1A	36.3	37.9	0.8	15.9	0.5	0.41	2.52	73	2	25.8	2.69
D	10221811	KH 1A	37.9	39.4	0.81	14.5	0.5	0.4	2.15	72	2	26.1	2.67
D	10221812	KH 1A	39.4	40.9	0.76	15	0.5	0.4	2.12	74	2	25.6	2.69
D	10221813	KH 1A	40.9	42.5	0.81	16.4	0.5	0.43	2.85	74	2	25.4	2.85
D	10221814	KH 1A	42.5	43.8	0.82	16.45	0.5	0.39	2.51	73	3	25.7	2.73
D	10221815	KH 1A	43.8	45.4	0.78	16.55	0.5	0.39	2.84	70	2	25.1	2.65
D	10221816	KH 1A	45.4	47	0.76	15.75	0.5	0.38	2.52	70	2	24.3	2.61
D	10221817	KH 1A	47	48.5	0.78	14.9	0.6	0.43	2.66	69	2	28	2.88
D	10221818	KH 1A	48.5	49.9	0.74	15.6	0.6	0.42	2.81	70	2	26.2	2.89
D	10221819	KH 1A	49.9	51.3	0.77	16.35	0.6	0.42	2.89	76	2	26.6	2.85
D	10221820	KH 1A	51.3	52.8	0.75	16.55	0.6	0.44	2.97	74	2	26.5	2.86
D	10221821	KH 1A	52.8	54.4	0.75	17.25	0.6	0.42	3.1	72	2	26.8	2.79
D	10221822	KH 1A	54.4	56	0.74	15.7	0.6	0.41	2.9	71	3	26.6	2.76
D	10221823	KH 1A	56	57.5	0.74	15.65	0.6	0.41	2.78	71	2	25.9	2.78
D	10221824	KH 1A	57.5	59.1	0.68	15	0.6	0.37	2.59	67	2	24.5	2.52
D	10221825	KH 1A	59.1	60.5	0.74	16.25	0.6	0.43	2.88	69	2	26.4	2.96

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Zr	As	Bi	Hg	Sb	Se	Te	LOI	Total
H1001			metre	metre	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
H1002					ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06
H1003					2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	201	1.5	0.11	0.046	1.21	0.2	0.01	2.07	99.44
D	10221805	KH 1A	30	31	179	2.3	0.15	0.065	1.4	0.3	0.01	2.46	100.73
D	10221806	KH 1A	31	32	209	3	0.21	0.052	0.84	0.4	0.01	3.1	99.39
D	10221807	KH 1A	32	32.9	241	3.2	0.28	0.022	0.55	0.3	0.01	3.77	98.95
D	10221808	KH 1A	32.9	34.2	211	3.6	0.28	0.018	0.46	0.3	0.01	3.78	98.49
D	10221809	KH 1A	34.2	36.3	214	3.3	0.27	0.016	0.42	0.3	0.01	3.69	99.58
D	10221810	KH 1A	36.3	37.9	204	6.6	0.29	0.018	0.31	0.4	0.01	3.76	99.91
D	10221811	KH 1A	37.9	39.4	211	3.3	0.29	0.013	0.22	0.4	0.01	3.65	98.21
D	10221812	KH 1A	39.4	40.9	216	3.3	0.28	0.014	0.26	0.3	0.02	3.48	99.36
D	10221813	KH 1A	40.9	42.5	213	3.4	0.29	0.014	0.26	0.3	0.01	3.44	96.64
D	10221814	KH 1A	42.5	43.8	223	3.3	0.28	0.02	0.23	0.3	0.01	3.4	98.2
D	10221815	KH 1A	43.8	45.4	190	3.7	0.26	0.015	0.22	0.3	0.01	3.35	99.7
D	10221816	KH 1A	45.4	47	201	3.3	0.28	0.014	0.24	0.4	0.01	3.37	96.14
D	10221817	KH 1A	47	48.5	214	3.2	0.27	0.011	0.21	0.3	0.01	3.34	96.57
D	10221818	KH 1A	48.5	49.9	213	3.5	0.29	0.012	0.21	0.4	0.01	3.4	97.99
D	10221819	KH 1A	49.9	51.3	228	4.7	0.32	0.013	0.26	0.4	0.01	3.62	99.19
D	10221820	KH 1A	51.3	52.8	238	3.9	0.3	0.018	0.32	0.4	0.02	3.54	98.06
D	10221821	KH 1A	52.8	54.4	213	3.6	0.29	0.012	0.21	0.4	0.01	3.35	98.19
D	10221822	KH 1A	54.4	56	203	3.7	0.29	0.016	0.18	0.4	0.01	3.24	98.81
D	10221823	KH 1A	56	57.5	228	3.6	0.29	0.02	0.22	0.4	0.01	3.26	98.01
D	10221824	KH 1A	57.5	59.1	191	3.6	0.28	0.019	0.25	0.3	0.01	3.35	98.51
D	10221825	KH 1A	59.1	60.5	215	4.1	0.28	0.019	0.24	0.4	0.01	3.23	97.7

EL 4720, EL 4733, EL 4734, EL 4735, EL 4736, EL 4737, EL 4738, EL 4739, EL 4740, EL 4741 and EL 4742

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Ag	Cd	Co	Cu	Mo	Ni	Pb	Zn	Au
H1001			metre	metre	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002					ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-MS24
H1003					0.5	0.5	1	1	1	1	2	2	0.001
H1007					ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	<0.5	<0.5	8	21	<1	13	13	89	0.001
D	10221805	KH 1A	30	31	<0.5	<0.5	8	16	1	15	16	185	0.002
D	10221806	KH 1A	31	32	<0.5	<0.5	8	11	1	16	19	196	0.003
D	10221807	KH 1A	32	32.9	<0.5	<0.5	68	553	<1	21	20	96	0.002
D	10221808	KH 1A	32.9	34.2	<0.5	<0.5	48	364	1	21	19	76	0.002
D	10221809	KH 1A	34.2	36.3	<0.5	<0.5	42	311	<1	21	20	72	0.001
D	10221810	KH 1A	36.3	37.9	<0.5	<0.5	37	266	<1	20	21	64	0.001
D	10221811	KH 1A	37.9	39.4	<0.5	<0.5	36	251	<1	19	21	60	0.002
D	10221812	KH 1A	39.4	40.9	<0.5	<0.5	28	200	<1	16	19	81	0.002
D	10221813	KH 1A	40.9	42.5	<0.5	<0.5	28	189	<1	20	21	86	0.002
D	10221814	KH 1A	42.5	43.8	<0.5	<0.5	9	20	<1	20	19	82	0.002
D	10221815	KH 1A	43.8	45.4	<0.5	<0.5	8	17	<1	17	21	87	0.002
D	10221816	KH 1A	45.4	47	<0.5	<0.5	8	17	<1	20	19	71	0.002
D	10221817	KH 1A	47	48.5	<0.5	<0.5	7	14	<1	18	20	113	0.002
D	10221818	KH 1A	48.5	49.9	<0.5	<0.5	8	14	<1	18	21	91	0.002
D	10221819	KH 1A	49.9	51.3	<0.5	<0.5	9	15	<1	17	18	109	0.001
D	10221820	KH 1A	51.3	52.8	<0.5	<0.5	8	15	<1	22	21	91	<0.001
D	10221821	KH 1A	52.8	54.4	<0.5	<0.5	8	15	<1	18	20	83	0.001
D	10221822	KH 1A	54.4	56	<0.5	<0.5	8	14	<1	18	19	221	0.001
D	10221823	KH 1A	56	57.5	<0.5	<0.5	7	14	<1	17	20	171	<0.001
D	10221824	KH 1A	57.5	59.1	<0.5	<0.5	8	15	<1	18	22	89	0.001
D	10221825	KH 1A	59.1	60.5	<0.5	<0.5	7	14	<1	16	21	97	0.001

H1000	SAMPLEID	HOLEID	SAMPFROM	SAMPTO	Pt	Pd
H1001			metre	metre	ppm	ppm
H1002					PGM-MS24	PGM-MS24
H1003					0.0005	0.001
H1007					ALS_PERTH	ALS_PERTH
D	10221804	KH 1A	29	30	<0.0005	<0.001
D	10221805	KH 1A	30	31	<0.0005	<0.001
D	10221806	KH 1A	31	32	<0.0005	<0.001
D	10221807	KH 1A	32	32.9	<0.0005	<0.001
D	10221808	KH 1A	32.9	34.2	<0.0005	<0.001
D	10221809	KH 1A	34.2	36.3	<0.0005	<0.001
D	10221810	KH 1A	36.3	37.9	<0.0005	<0.001
D	10221811	KH 1A	37.9	39.4	<0.0005	<0.001
D	10221812	KH 1A	39.4	40.9	<0.0005	<0.001
D	10221813	KH 1A	40.9	42.5	<0.0005	<0.001
D	10221814	KH 1A	42.5	43.8	<0.0005	<0.001
D	10221815	KH 1A	43.8	45.4	<0.0005	<0.001
D	10221816	KH 1A	45.4	47	<0.0005	<0.001
D	10221817	KH 1A	47	48.5	<0.0005	<0.001
D	10221818	KH 1A	48.5	49.9	<0.0005	<0.001
D	10221819	KH 1A	49.9	51.3	<0.0005	<0.001
D	10221820	KH 1A	51.3	52.8	<0.0005	<0.001
D	10221821	KH 1A	52.8	54.4	<0.0005	<0.001
D	10221822	KH 1A	54.4	56	<0.0005	<0.001
D	10221823	KH 1A	56	57.5	<0.0005	<0.001
D	10221824	KH 1A	57.5	59.1	<0.0005	<0.001
D	10221825	KH 1A	59.1	60.5	<0.0005	<0.001

11.5 Appendix 5: Sample Data

H0002	Version	3										
H0003	Date_generated	30-May-12										
H0004	Reporting_period_end_date	2-May-12										
H0005	State	SA										
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	22										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt										
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt										
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt										
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	downhole assays										
H0900	Comments	N/A										

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	CLAYTON BORE 2	LAKEEYRE	296	298	53	
D	CLAYTON BORE 2	LAKEEYRE	298	300	52	
D	CLAYTON BORE 2	LAKEEYRE	300	302	44	
D	CLAYTON BORE 2	LAKEEYRE	302	304	51	
D	CLAYTON BORE 2	LAKEEYRE	304	306	43	
D	CLAYTON BORE 2	LAKEEYRE	306	308	45	
D	CLAYTON BORE 2	LAKEEYRE	308	310	51	
D	CLAYTON BORE 2	LAKEEYRE	310	312	52	
D	CLAYTON BORE 2	LAKEEYRE	312	314	55	
D	CLAYTON BORE 2	LAKEEYRE	314	316	50	
D	CLAYTON BORE 2	LAKEEYRE	316	318	48	
D	CLAYTON BORE 2	LAKEEYRE	318	320	41	
D	CLAYTON BORE 2	LAKEEYRE	320	322	40	
D	CLAYTON BORE 2	LAKEEYRE	322	324	47	
D	CLAYTON BORE 2	LAKEEYRE	324	326	46	
D	CLAYTON BORE 2	LAKEEYRE	326	328	50	
D	CLAYTON BORE 2	LAKEEYRE	328	330	49	
D	CLAYTON BORE 2	LAKEEYRE	330	332	46	
D	CLAYTON BORE 2	LAKEEYRE	332	334	46	
D	CLAYTON BORE 2	LAKEEYRE	334	336	48	
D	CLAYTON BORE 2	LAKEEYRE	476	478	58	
D	CLAYTON BORE 2	LAKEEYRE	478	480	51	
D	CLAYTON BORE 2	LAKEEYRE	480	482	43	
D	CLAYTON BORE 2	LAKEEYRE	482	484	56	
D	CLAYTON BORE 2	LAKEEYRE	484	486	58	
D	CLAYTON BORE 2	LAKEEYRE	486	488	50	
D	CLAYTON BORE 2	LAKEEYRE	488	490	59	
D	CLAYTON BORE 2	LAKEEYRE	490	492	48	
D	CLAYTON BORE 2	LAKEEYRE	492	494	48	
D	CLAYTON BORE 2	LAKEEYRE	494	496	53	
D	CLAYTON BORE 2	LAKEEYRE	496	498	55	
D	CLAYTON BORE 2	LAKEEYRE	498	500	52	
D	CLAYTON BORE 2	LAKEEYRE	500	502	55	
D	CLAYTON BORE 2	LAKEEYRE	502	504	54	
D	CLAYTON BORE 2	LAKEEYRE	504	506	52	
D	CLAYTON BORE 2	LAKEEYRE	506	508	53	
D	CLAYTON BORE 2	LAKEEYRE	508	510	54	
D	CLAYTON BORE 2	LAKEEYRE	510	512	52	
D	CLAYTON BORE 2	LAKEEYRE	512	514	55	
D	CLAYTON BORE 2	LAKEEYRE	514	516	57	
D	CLAYTON BORE 2	LAKEEYRE	516	518	53	
D	CLAYTON BORE 2	LAKEEYRE	518	520	52	
D	CLAYTON BORE 2	LAKEEYRE	520	522	54	
D	CLAYTON BORE 2	LAKEEYRE	522	524	55	
D	CLAYTON BORE 2	LAKEEYRE	524	526	55	
D	CLAYTON BORE 2	LAKEEYRE	526	528	56	
D	CLAYTON BORE 2	LAKEEYRE	528	530	53	
D	CLAYTON BORE 2	LAKEEYRE	530	532	49	
D	CLAYTON BORE 2	LAKEEYRE	532	534	50	
D	CLAYTON BORE 2	LAKEEYRE	534	536	56	
D	CLAYTON BORE 2	LAKEEYRE	536	538	53	
D	CLAYTON BORE 2	LAKEEYRE	538	539	51	
D	CLAYTON BORE 2	LAKEEYRE	539	540	52	
D	CLAYTON BORE 2	LAKEEYRE	540	541	49	
D	CLAYTON BORE 2	LAKEEYRE	541	542	52	
D	CLAYTON BORE 2	LAKEEYRE	542	543	52	
D	CLAYTON BORE 2	LAKEEYRE	543	544	47	
D	CLAYTON BORE 2	LAKEEYRE	544	545	58	
D	CLAYTON BORE 2	LAKEEYRE	545	546	53	
D	CLAYTON BORE 2	LAKEEYRE	546	547	52	
D	CLAYTON BORE 2	LAKEEYRE	547	548	57	
D	CLAYTON BORE 2	LAKEEYRE	548	549	55	
D	CLAYTON BORE 2	LAKEEYRE	549	550	51	
D	CLAYTON BORE 2	LAKEEYRE	550	551	58	
D	CLAYTON BORE 2	LAKEEYRE	551	552	58	
D	CLAYTON BORE 2	LAKEEYRE	552	553	54	
D	CLAYTON BORE 2	LAKEEYRE	553	554	58	
D	CLAYTON BORE 2	LAKEEYRE	554	555	49	
D	CROWS NEST 2	LAKEEYRE	0	2	44	
D	CROWS NEST 2	LAKEEYRE	2	4	53	
D	CROWS NEST 2	LAKEEYRE	4	7	53	
D	CROWS NEST 2	LAKEEYRE	7	11	52	
D	CROWS NEST 2	LAKEEYRE	11	15	56	
D	CROWS NEST 2	LAKEEYRE	15	19	48	
D	CROWS NEST 2	LAKEEYRE	19	23	51	
D	CROWS NEST 2	LAKEEYRE	23	27	52	
D	CROWS NEST 2	LAKEEYRE	27	31	49	

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	CROWS NEST 2	LAKEEYRE	31	35	55	
D	CROWS NEST 2	LAKEEYRE	35	39	50	
D	CROWS NEST 2	LAKEEYRE	39	43	56	
D	CROWS NEST 2	LAKEEYRE	43	47	53	
D	CROWS NEST 2	LAKEEYRE	47	51	49	
D	CROWS NEST 2	LAKEEYRE	51	55	49	
D	CROWS NEST 2	LAKEEYRE	55	59	52	
D	CROWS NEST 2	LAKEEYRE	59	63	52	
D	CROWS NEST 2	LAKEEYRE	63	67	51	
D	CROWS NEST 2	LAKEEYRE	67	71	54	
D	KH 1A	LAKEEYRE	0	1	51	0.00013
D	KH 1A	LAKEEYRE	1	2	54	0.000219
D	KH 1A	LAKEEYRE	2	3	51	0.000161
D	KH 1A	LAKEEYRE	3	4	48	0.000173
D	KH 1A	LAKEEYRE	4	5	49	0.000038
D	KH 1A	LAKEEYRE	5	6	51	0.000018
D	KH 1A	LAKEEYRE	6	7	48	0.000038
D	KH 1A	LAKEEYRE	7	8	49	0.000019
D	KH 1A	LAKEEYRE	8	9	51	0.00024
D	KH 1A	LAKEEYRE	9	10	54	0.000021
D	KH 1A	LAKEEYRE	10	11	49	0.000017
D	KH 1A	LAKEEYRE	11	12	51	0.000014
D	KH 1A	LAKEEYRE	12	13	55	0.000006
D	KH 1A	LAKEEYRE	13	14	52	0.000001
D	KH 1A	LAKEEYRE	14	15	50	0.000001
D	KH 1A	LAKEEYRE	15	16	55	0.000004
D	KH 1A	LAKEEYRE	16	17	49	0.000011
D	KH 1A	LAKEEYRE	17	18	55	0.000013
D	KH 1A	LAKEEYRE	18	19	51	0.000035
D	KH 1A	LAKEEYRE	19	20	54	0.00012
D	KH 1A	LAKEEYRE	20	21	50	0.00001
D	KH 1A	LAKEEYRE	21	22	54	0.000011
D	KH 1A	LAKEEYRE	22	23	56	0.000017
D	KH 1A	LAKEEYRE	23	24	51	0.000014
D	KH 1A	LAKEEYRE	24	25	50	0.000041
D	KH 1A	LAKEEYRE	25	26	54	0.000008
D	KH 1A	LAKEEYRE	26	27	53	0.000015
D	KH 1A	LAKEEYRE	27	28	50	0.000048
D	KH 1A	LAKEEYRE	28	29	49	0.000022
D	KH 1A	LAKEEYRE	29	30	55	0.000033
D	KH 1A	LAKEEYRE	30	31	52	0.000008
D	KH 1A	LAKEEYRE	31	32	60	0.000033
D	KH 1A	LAKEEYRE	32	32.9	60	0.000166
D	KH 1A	LAKEEYRE	32.9	34.2	60	0.000163
D	KH 1A	LAKEEYRE	34.2	36.3	55	0.000128
D	KH 1A	LAKEEYRE	36.3	37.9	65	0.000119
D	KH 1A	LAKEEYRE	37.9	39.4	68	0.000137
D	KH 1A	LAKEEYRE	39.4	40.9	64	0.000128
D	KH 1A	LAKEEYRE	40.9	42.5	65	0.000132
D	KH 1A	LAKEEYRE	42.5	43.8	67	0.000245
D	KH 1A	LAKEEYRE	43.8	45.4	60	0.000131
D	KH 1A	LAKEEYRE	45.4	47	58	0.000345
D	KH 1A	LAKEEYRE	47	48.5	69	0.000065
D	KH 1A	LAKEEYRE	48.5	49.9	59	0.000057
D	KH 1A	LAKEEYRE	49.9	51.3	64	0.00004
D	KH 1A	LAKEEYRE	51.3	52.8	64	0.000135
D	KH 1A	LAKEEYRE	52.8	54.4	68	0.000049
D	KH 1A	LAKEEYRE	54.4	56	64	0.000142
D	KH 1A	LAKEEYRE	56	57.5	62	0.000166
D	KH 1A	LAKEEYRE	57.5	59.1	58	0.000136
D	KH 1A	LAKEEYRE	59.1	60.5	62	0.000124
D	LAKE EYRE BORE S 8A	LAKEEYRE	0	1.52	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	1.52	3.05	49	
D	LAKE EYRE BORE S 8A	LAKEEYRE	3.05	4.57	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	4.57	6.1	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	6.1	7.62	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	7.62	9.14	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	9.14	10.67	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	10.67	12.19	49	
D	LAKE EYRE BORE S 8A	LAKEEYRE	12.19	13.72	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	13.72	15.24	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	15.24	16.76	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	16.76	18.29	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	18.29	19.81	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	19.81	21.34	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	21.34	22.86	59	
D	LAKE EYRE BORE S 8A	LAKEEYRE	22.86	24.38	58	

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	LAKE EYRE BORE S 8A	LAKEEYRE	24.38	25.91	58	
D	LAKE EYRE BORE S 8A	LAKEEYRE	25.91	27.43	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	27.43	28.96	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	28.96	30.48	60	
D	LAKE EYRE BORE S 8A	LAKEEYRE	30.48	32	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	32	33.53	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	33.53	35.05	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	35.05	36.58	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	36.58	38.1	57	
D	LAKE EYRE BORE S 8A	LAKEEYRE	38.1	39.62	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	39.62	41.15	58	
D	LAKE EYRE BORE S 8A	LAKEEYRE	41.15	42.67	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	42.67	44.2	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	44.2	45.72	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	45.72	47.24	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	47.24	48.77	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	48.77	50.29	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	50.29	51.82	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	51.82	53.34	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	53.34	54.86	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	54.86	56.39	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	56.39	57.91	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	57.91	59.44	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	59.44	60.96	48	
D	LAKE EYRE BORE S 8A	LAKEEYRE	60.96	62.48	43	
D	LAKE EYRE BORE S 8A	LAKEEYRE	62.48	64.01	47	
D	LAKE EYRE BORE S 8A	LAKEEYRE	64.01	65.53	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	65.53	67.06	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	67.06	68.58	48	
D	LAKE EYRE BORE S 8A	LAKEEYRE	68.58	70.1	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	70.1	71.63	47	
D	SR 11	LAKEEYRE	0	6	53	0.000032
D	SR 11	LAKEEYRE	6	11.5	56	0.000105
D	SR 11	LAKEEYRE	11.5	16.1	57	0
D	SR 11	LAKEEYRE	16.1	20.6	51	0.000009
D	SR 11	LAKEEYRE	20.6	25.2	54	0.000005
D	SR 11	LAKEEYRE	25.2	29.8	54	0
D	SR 11	LAKEEYRE	29.8	34.4	52	0.000146
D	SR 11	LAKEEYRE	34.4	38.9	50	0.000027
D	SR 11	LAKEEYRE	38.9	43.5	51	0
D	SR 11	LAKEEYRE	43.5	48.1	58	0.000117
D	SR 11	LAKEEYRE	48.1	52.6	48	0
D	SR 11	LAKEEYRE	52.6	58.2	58	0
D	SR 11	LAKEEYRE	58.2	62.8	57	0.000157
D	SR 11	LAKEEYRE	62.8	67.3	55	0
D	SR 11	LAKEEYRE	67.3	71.9	58	0
D	SR 11	LAKEEYRE	71.9	76.5	54	0
D	SR 11	LAKEEYRE	76.5	81.1	52	0
D	SR 11	LAKEEYRE	81.1	85.6	55	0
D	SR 11	LAKEEYRE	90.2	94.8	56	0.00011
D	SR 11	LAKEEYRE	94.8	99.3	56	0.000132
D	SR 11	LAKEEYRE	99.3	100	51	0.000181
D	SR 12	LAKEEYRE	0	6	54	0.000312
D	SR 12	LAKEEYRE	6	11.6	58	0
D	SR 12	LAKEEYRE	11.6	16.1	54	0.000179
D	SR 12	LAKEEYRE	16.1	20.7	50	0
D	SR 12	LAKEEYRE	20.7	25.3	51	0
D	SR 12	LAKEEYRE	25.3	30.9	54	0
D	SR 12	LAKEEYRE	30.9	35.4	44	0
D	SR 12	LAKEEYRE	35.4	40	44	0.00269
D	SR 12	LAKEEYRE	40	44.6	47	0.000135
D	SR 12	LAKEEYRE	44.6	49.1	51	0.000016
D	SR 12	LAKEEYRE	49.1	53.9	50	0
D	SR 12	LAKEEYRE	53.9	58.9	54	0.000013
D	SR 12	LAKEEYRE	58.9	63.8	53	0
D	SR 12	LAKEEYRE	63.8	68.4	50	0
D	SR 12	LAKEEYRE	68.4	73	56	0
D	SR 12	LAKEEYRE	73	77.6	49	0
D	SR 12	LAKEEYRE	77.6	82.1	53	0.00013
D	SR 12	LAKEEYRE	82.1	86.7	55	0.00003
D	SR 12	LAKEEYRE	86.7	91.3	59	0.00031
D	SR 12	LAKEEYRE	91.3	95.8	58	0.00029
D	SR 12	LAKEEYRE	95.8	97.3	51	0.000125
D	SR 13/2	LAKEEYRE	0	4	48	0.000021
D	SR 13/2	LAKEEYRE	4	8	53	0
D	SR 13/2	LAKEEYRE	8	12	55	0
D	SR 13/2	LAKEEYRE	12	16	56	0

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	SR 13/2	LAKEEYRE	16	20	55	0
D	SR 13/2	LAKEEYRE	20	24	53	0
D	SR 13/2	LAKEEYRE	24	28	48	0
D	SR 13/2	LAKEEYRE	28	32	48	0
D	SR 13/2	LAKEEYRE	32	36	58	0
D	SR 13/2	LAKEEYRE	36	40	53	0
D	SR 13/2	LAKEEYRE	40	44	46	0
D	SR 13/2	LAKEEYRE	44	48	49	0
D	SR 13/2	LAKEEYRE	48	52	49	0.000132
D	SR 13/2	LAKEEYRE	52	56	52	0.000648
D	SR 13/2	LAKEEYRE	56	60	55	0.000754
D	SR 13/2	LAKEEYRE	60	64	52	0.000867
D	SR 13/2	LAKEEYRE	64	68	52	0.0002
D	SR 13/2	LAKEEYRE	68	72	52	0.000203
D	SR 13/2	LAKEEYRE	72	76	57	0.000039
D	SR 13/2	LAKEEYRE	76	80	52	0.000063
D	SR 13/2	LAKEEYRE	80	84	53	0.00034
D	SR 13/2	LAKEEYRE	84	88	55	0.00035
D	SR 13/2	LAKEEYRE	88	92	51	0.00036
D	SR 13/2	LAKEEYRE	92	96	55	0.000121
D	SR 13/2	LAKEEYRE	96	100	60	0.00026
D	SR 13/2	LAKEEYRE	100	104	58	0.00052
D	SR 13/2	LAKEEYRE	104	108	54	0.00021
D	SR 13/2	LAKEEYRE	108	112	53	0
D	SR 13/2	LAKEEYRE	112	116	54	0.000022
D	SR 13/2	LAKEEYRE	116	120	54	0
D	WLE 1A	LAKEEYRE	244	246	48	0.000134
D	WLE 1A	LAKEEYRE	246	248	51	0.000175
D	WLE 1A	LAKEEYRE	248	250	49	0.000166
D	WLE 1A	LAKEEYRE	250	252	53	0.000209
D	WLE 1A	LAKEEYRE	252	254	49	0.000204
D	WLE 1A	LAKEEYRE	254	256	49	0.000202
D	WLE 1A	LAKEEYRE	256	258	50	0.000164
D	WLE 1A	LAKEEYRE	258	260	44	0.000129
D	WLE 1A	LAKEEYRE	280	282	60	0.000307
D	WLE 1A	LAKEEYRE	282	284	56	0.000665
D	WLE 1A	LAKEEYRE	284	286	55	0.000177
D	WLE 1A	LAKEEYRE	286	288	53	0.000047
D	WLE 1A	LAKEEYRE	288	290	56	0.000214
D	WLE 1A	LAKEEYRE	290	292	58	0.000117
D	WLE 1A	LAKEEYRE	292	294	58	0.000205
D	WLE 1A	LAKEEYRE	294	296	53	0.000034
EOF						

11.6 Appendix 6: Lithology Data

H0002	Version	3										
H0003	Date_generated	30-May-12										
H0004	Reporting_period_end_date	2-May-12										
H0005	State	SA										
H0100	Tenement_no	EL 4720	EL 4733	EL 4734	EL 4735	EL 4736	EL 4737	EL 4738	EL 4739	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	49										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2012_A_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2012_A_Lithology.txt										
H0303	Assay_data_file	Lake_Eyre_03_2012_A_Assay.txt										
H0304	Survey_data_file	Lake_Eyre_04_2012_A_Survey.txt										
H0305	Sample_Data_File	Lake_Eyre_05_2012_A_Sample.txt										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_18_2012_A_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	downhole assays										
H0900	Comments	N/A										

H1000	Hole ID	ProjectCode	From	To	Lith1	LithWeath	Lith1_GrainSize1	Lith1_GrainSize2	Lith1_Mod1	Lith1_Mod2	Lith1_Mod3	Lith1_Mod4
H1001			metre	metre								
D	CLAYTON BORE 2	LAKEEYRE	296	336	Siltstone		VeryFine					
D	CLAYTON BORE 2	LAKEEYRE	476	496	Siltstone		Fine					
D	CLAYTON BORE 2	LAKEEYRE	496	500	Sandstone		Fine					
D	CLAYTON BORE 2	LAKEEYRE	500	532	Sandstone		VeryFine	Fine				
D	CLAYTON BORE 2	LAKEEYRE	532	547	Sandstone		VeryFine	Fine	Friable			
D	CLAYTON BORE 2	LAKEEYRE	547	555	Siltstone				Friable			
D	KH 1A	LAKEEYRE	0	9	Sandstone	CompletelyWeathered	Fine				CoarseningDown	
D	KH 1A	LAKEEYRE	9	18	Sandstone		Granules	Pebbles			CoarseningUp	MatrixSupported
D	KH 1A	LAKEEYRE	18	26	Sandstone		Granules	Pebbles				ClastSupported
D	KH 1A	LAKEEYRE	26	32	Sandstone		Granules	Pebbles			CoarseningUp	ClastSupported
D	KH 1A	LAKEEYRE	32	33	Sandstone		Fine	Medium				
D	KH 1A	LAKEEYRE	33	36	Sandstone		Medium	Granules			CoarseningUp	
D	KH 1A	LAKEEYRE	36	37.9	Sandstone		Fine	Medium			CoarseningUp	
D	KH 1A	LAKEEYRE	37.9	45.5	Sandstone		Medium		Platy			
D	KH 1A	LAKEEYRE	45.5	51.5	Sandstone		Medium		Platy			
D	KH 1A	LAKEEYRE	51.5	60	Sandstone		Medium		Platy			
D	SR 11	LAKEEYRE	0.6	16.1	Sandstone		VeryFine					
D	SR 11	LAKEEYRE	16.1	25.2	Sandstone		Fine					
D	SR 11	LAKEEYRE	25.2	43.5	Siltstone							
D	SR 11	LAKEEYRE	43.5	48.1	Siltstone		Fine					
D	SR 11	LAKEEYRE	48.1	58.2	Sandstone		Medium	Granules				
D	SR 11	LAKEEYRE	58.2	67.3	Sandstone		VeryCoarse					
D	SR 11	LAKEEYRE	67.3	85.6	Sandstone		VeryCoarse	Granules				
D	SR 11	LAKEEYRE	90.2	100	Sandstone		Medium	Granules				
D	SR 12	LAKEEYRE	0	16.1	Sandstone		VeryFine	Fine				
D	SR 12	LAKEEYRE	16.1	40	Sandstone		Silt	VeryFine				
D	SR 12	LAKEEYRE	40	49.1	Sandstone		Fine	Medium				
D	SR 12	LAKEEYRE	49.1	58.8	Sandstone		Medium	Coarse				ClastSupported
D	SR 12	LAKEEYRE	58.8	77.6	Sandstone		VeryCoarse					ClastSupported
D	SR 12	LAKEEYRE	77.6	82.1	Sandstone		Coarse					
D	SR 12	LAKEEYRE	82.1	97.3	Siltstone							
D	SR 13/2	LAKEEYRE	0	4	Sandstone		Medium	Coarse				ClastSupported
D	SR 13/2	LAKEEYRE	4	8	Sandstone		Coarse					ClastSupported
D	SR 13/2	LAKEEYRE	8	24	Sandstone		Fine	Medium				ClastSupported
D	SR 13/2	LAKEEYRE	24	32	Sandstone		VeryFine	Granules				ClastSupported
D	SR 13/2	LAKEEYRE	32	40	Sandstone		VeryCoarse	Granules				ClastSupported
D	SR 13/2	LAKEEYRE	40	44	Sandstone		VeryCoarse					
D	SR 13/2	LAKEEYRE	44	52	Sandstone		VeryCoarse	Granules			CoarseningUp	ClastSupported
D	SR 13/2	LAKEEYRE	52	60	Sandstone		Fine					
D	SR 13/2	LAKEEYRE	60	68	Sandstone		VeryFine					ClastSupported
D	SR 13/2	LAKEEYRE	68	72	Sandstone		Fine	Coarse				ClastSupported
D	SR 13/2	LAKEEYRE	72	92	Sandstone		Coarse					ClastSupported
D	SR 13/2	LAKEEYRE	92	96	Sandstone		Fine	Medium			CoarseningDown	
D	SR 13/2	LAKEEYRE	96	112	Sandstone		Fine	Medium			CoarseningUp	
D	SR 13/2	LAKEEYRE	112	116	Sandstone		Fine					
D	SR 13/2	LAKEEYRE	116	120	Sandstone		VeryFine					
D	WLE 1A	LAKEEYRE	244	256	Siltstone				Friable			
D	WLE 1A	LAKEEYRE	256	260	Siltstone							
D	WLE 1A	LAKEEYRE	280	296	Siltstone							

H1000	Hole ID	ProjectCode	From	To	Lith1_Colour1	Lith1_ColourMod1	Lith1_Colour2	Lith1_ColourMod2	Lith1_Roundness	Lith1_Sorting	Lith2
H1001			metre	metre							
D	CLAYTON BORE 2	LAKEEYRE	296	336	Brown	Dark				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	476	496	Brown	Dark				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	496	500	Brown	Light				PoorlySorted	
D	CLAYTON BORE 2	LAKEEYRE	500	532	Brown	Medium				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	532	547	Brown	Light				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	547	555	Brown	Light	Grey	Light			
D	KH 1A	LAKEEYRE	0	9	Orange					PoorlySorted	
D	KH 1A	LAKEEYRE	9	18	White	Dark				ModeratelySorted	Conglomerate
D	KH 1A	LAKEEYRE	18	26	White	Dark	Grey		WellRounded	PoorlySorted	Conglomerate
D	KH 1A	LAKEEYRE	26	32	Grey				SubAngular	PoorlySorted	Conglomerate
D	KH 1A	LAKEEYRE	32	33	Brown	Light				PoorlySorted	
D	KH 1A	LAKEEYRE	33	36	Brown	Medium					
D	KH 1A	LAKEEYRE	36	37.9	Brown	Light	Grey	Light			
D	KH 1A	LAKEEYRE	37.9	45.5	Brown	Light			Angular	PoorlySorted	
D	KH 1A	LAKEEYRE	45.5	51.5	Grey				Angular	ModeratelySorted	
D	KH 1A	LAKEEYRE	51.5	60	Grey				Angular	WellSorted	
D	SR 11	LAKEEYRE	0.6	16.1	Brown	Light	White	Dark		WellSorted	
D	SR 11	LAKEEYRE	16.1	25.2	Brown	Light			Angular	WellSorted	
D	SR 11	LAKEEYRE	25.2	43.5	Grey	Medium					
D	SR 11	LAKEEYRE	43.5	48.1	Brown		Grey				
D	SR 11	LAKEEYRE	48.1	58.2	Grey	Light			Angular	PoorlySorted	
D	SR 11	LAKEEYRE	58.2	67.3	Grey		Brown		Angular	PoorlySorted	
D	SR 11	LAKEEYRE	67.3	85.6	Grey	Medium			SubRounded	PoorlySorted	
D	SR 11	LAKEEYRE	90.2	100	Grey	Dark			Angular	PoorlySorted	
D	SR 12	LAKEEYRE	0	16.1	Yellow	Light	Grey	Light	Angular	PoorlySorted	
D	SR 12	LAKEEYRE	16.1	40	Grey	Medium				ModeratelySorted	
D	SR 12	LAKEEYRE	40	49.1	Grey		Brown		SubRounded	PoorlySorted	
D	SR 12	LAKEEYRE	49.1	58.8	Grey	Light	Brown	Light	Angular	ModeratelySorted	
D	SR 12	LAKEEYRE	58.8	77.6	Grey	Light			Angular	ModeratelySorted	
D	SR 12	LAKEEYRE	77.6	82.1	Grey				SubRounded	PoorlySorted	
D	SR 12	LAKEEYRE	82.1	97.3	Grey	Dark	Brown	Dark			
D	SR 13/2	LAKEEYRE	0	4	Orange				Angular	PoorlySorted	
D	SR 13/2	LAKEEYRE	4	8	Pink	Light	Grey	Light	Angular	ModeratelySorted	
D	SR 13/2	LAKEEYRE	8	24	White	Dark			Angular	ModeratelySorted	
D	SR 13/2	LAKEEYRE	24	32	Grey	Light			Angular	PoorlySorted	
D	SR 13/2	LAKEEYRE	32	40	Grey	Medium			SubRounded	PoorlySorted	
D	SR 13/2	LAKEEYRE	40	44	Grey	Medium			Angular	PoorlySorted	
D	SR 13/2	LAKEEYRE	44	52	Orange				SubAngular	ModeratelySorted	
D	SR 13/2	LAKEEYRE	52	60	Grey	Light			WellRounded	WellSorted	
D	SR 13/2	LAKEEYRE	60	68	White					ModeratelySorted	
D	SR 13/2	LAKEEYRE	68	72	White	Dark	Pink			PoorlySorted	
D	SR 13/2	LAKEEYRE	72	92	Pink	Light			WellRounded	WellSorted	
D	SR 13/2	LAKEEYRE	92	96	Grey	Medium	Grey	Light	SubAngular	WellSorted	
D	SR 13/2	LAKEEYRE	96	112	Grey	Light			Angular	WellSorted	
D	SR 13/2	LAKEEYRE	112	116	Grey	Medium				WellSorted	
D	SR 13/2	LAKEEYRE	116	120	Grey	Dark				ModeratelySorted	
D	WLE 1A	LAKEEYRE	244	256	Brown	Medium	Grey	Medium			
D	WLE 1A	LAKEEYRE	256	260	Brown	Light					
D	WLE 1A	LAKEEYRE	280	296	Brown	Medium					

H1000	Hole ID	ProjectCode	From	To	Min1	Min1_pct	Min1_Style	Min2	Min2_pct	Min2_Style	Min3	Min3_pct	Min3_Style
H1001			metre	metre		%			%			%	
D	CLAYTON BORE 2	LAKEEYRE	296	336									
D	CLAYTON BORE 2	LAKEEYRE	476	496									
D	CLAYTON BORE 2	LAKEEYRE	496	500	Muscovite			Quartz					
D	CLAYTON BORE 2	LAKEEYRE	500	532									
D	CLAYTON BORE 2	LAKEEYRE	532	547									
D	CLAYTON BORE 2	LAKEEYRE	547	555									
D	KH 1A	LAKEEYRE	0	9									
D	KH 1A	LAKEEYRE	9	18	Quartz			Feldspar					
D	KH 1A	LAKEEYRE	18	26	Quartz			Feldspar					
D	KH 1A	LAKEEYRE	26	32	Quartz			Feldspar					
D	KH 1A	LAKEEYRE	32	33									
D	KH 1A	LAKEEYRE	33	36									
D	KH 1A	LAKEEYRE	36	37.9									
D	KH 1A	LAKEEYRE	37.9	45.5									
D	KH 1A	LAKEEYRE	45.5	51.5									
D	KH 1A	LAKEEYRE	51.5	60	Quartz			Biotite			Muscovite		
D	SR 11	LAKEEYRE	0.6	16.1									
D	SR 11	LAKEEYRE	16.1	25.2	Muscovite			Quartz					
D	SR 11	LAKEEYRE	25.2	43.5									
D	SR 11	LAKEEYRE	43.5	48.1									
D	SR 11	LAKEEYRE	48.1	58.2									
D	SR 11	LAKEEYRE	58.2	67.3									
D	SR 11	LAKEEYRE	67.3	85.6									
D	SR 11	LAKEEYRE	90.2	100									
D	SR 12	LAKEEYRE	0	16.1	Quartz								
D	SR 12	LAKEEYRE	16.1	40	Muscovite	5							
D	SR 12	LAKEEYRE	40	49.1									
D	SR 12	LAKEEYRE	49.1	58.8									
D	SR 12	LAKEEYRE	58.8	77.6	Quartz			Feldspar					
D	SR 12	LAKEEYRE	77.6	82.1									
D	SR 12	LAKEEYRE	82.1	97.3	Muscovite								
D	SR 13/2	LAKEEYRE	0	4	Quartz			Jasperoid			Feldspar		
D	SR 13/2	LAKEEYRE	4	8	Quartz			Feldspar					
D	SR 13/2	LAKEEYRE	8	24	Quartz			Feldspar					
D	SR 13/2	LAKEEYRE	24	32									
D	SR 13/2	LAKEEYRE	32	40	Quartz			Orthoclase					
D	SR 13/2	LAKEEYRE	40	44	Quartz			Feldspar					
D	SR 13/2	LAKEEYRE	44	52									
D	SR 13/2	LAKEEYRE	52	60									
D	SR 13/2	LAKEEYRE	60	68									
D	SR 13/2	LAKEEYRE	68	72	Quartz			KFeldspar			Jasperoid		
D	SR 13/2	LAKEEYRE	72	92									
D	SR 13/2	LAKEEYRE	92	96									
D	SR 13/2	LAKEEYRE	96	112									
D	SR 13/2	LAKEEYRE	112	116									
D	SR 13/2	LAKEEYRE	116	120									
D	WLE 1A	LAKEEYRE	244	256									
D	WLE 1A	LAKEEYRE	256	260									
D	WLE 1A	LAKEEYRE	280	296									

Rio Tinto Exploration Pty Ltd

Lake Eyre Project

Second Annual and Final Technical Report

for the period 3 May 2011 to 7 March 2013

EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742

Report Type:	Second Annual and Final Technical Report
Reporting Period:	3 May 2011 to 7 March 2013
Tenement Numbers:	EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742
Project:	Lake Eyre
Tenement Holder:	Rio Tinto Exploration Pty Ltd
Tenement Operator:	Rio Tinto Exploration Pty Ltd
Author:	Erin McMahon, Project Geologist, Rio Tinto Exploration Pty Ltd
Date of report:	27 March 2013
RTX Internal Report Number:	29463

Contents

Tables

Figures

Digital Files (name, file size, file type)

Lake_Eyre_01_2013_S_DrillCollars.txt
Lake_Eyre_02_2013_S_Lithology.txt
Lake_Eyre_03_2013_S_Assay.txt
Lake_Eyre_04_2013_S_Survey.txt
Lake_Eyre_05_2013_S_Sample.txt
Lake_Eyre_18_2013_S_PhysProps.txt

1 Summary

This surrender report summarises the exploration activities undertaken on tenements EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 by Rio Tinto Exploration (RTX) for the period from 3 May 2011 to 7 March 2013.

The tenements are located in South Australia approximately 350 km north of Port Augusta and around 150 km north of Olympic Dam. They are situated in the area to the west of the township of Marree, to the south of the township of William Creek, and to the southwest of Lake Eyre. The tenements are situated on five 1:250,000 Map Sheets: Warrina (SH5303), Lake Eyre (SH5304), Billa Kalina (SH5307), Curdimurka (SH5308) and Marree (SH5405).

Work within EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 targeted sandstone hosted uranium deposits within Cretaceous sandstones of the Eromanga Basin. A land access agreement between RTX and the traditional owners was not completed prior to the surrender of the tenements so no on-ground exploration activities were undertaken.

A desktop review of previous exploration was undertaken. The SARIG drillhole database was searched for drillholes within or close to the tenements which intersected Cretaceous sandstones, with four such holes identified.

Available reports for the identified holes were reviewed for evidence of uranium mineralisation. Drill core and chips from units of interest retained at the Department for Manufacturing, Innovation, Trade, Resources and Energy (DMITRE) core library were analysed. Work included geological logging, handheld scintillometer, magnetic susceptibility and handheld Niton XRF analysis, and geochemical assay analysis of selected samples.

Inspection of historic drillholes and assay analysis did not reveal any uranium mineralisation within Cretaceous sandstone units in EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742. The area showed very few encouraging signs that indicate the presence of a sandstone hosted uranium deposit. Therefore, it was decided tenements EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 should be relinquished.

2 Exploration Index Map

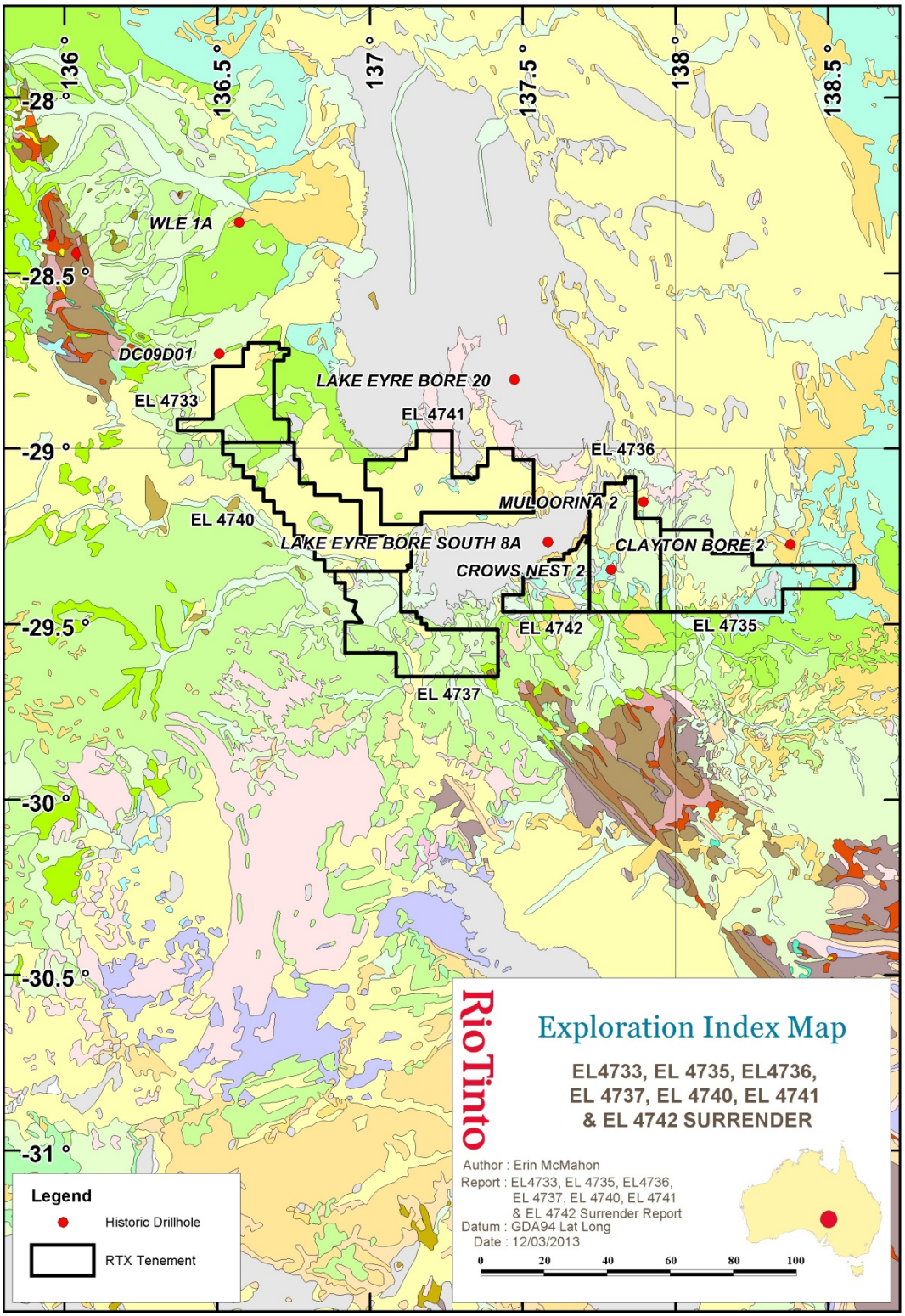


Figure 1: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Exploration Index Map

3 Keywords

1:250,000 Map Sheet Warrina (SH5303); 1:250,000 Map Sheet Lake Eyre (SH5304); 1:250,000 Map Sheet Billa Kalina (SH5307); 1:250,000 Map Sheet Curdimurka (SH5308); 1:250,000 Map Sheet Marree (SH5405)

Victory Dam; Lake Harry; Muloorina; Dillinna; Mudlark Dam; Jackboot Bay; Cooryabbie

Uranium; Sandstone Hosted

Literature Review; DMITRE Core Library; Drill Core; Drill Chips; Magnetic Susceptibility; Handheld Scintillometer; Handheld XRF Analyser;

Eromanga Basin; Great Artesian Basin; Cadna-owie – Hooray Aquifer; Algebuckinga Sandstone; Cadna-owie Formation; Marree Subgroup; Bulldog Shale; Ooodnadatta Formation; Coorikiana Sandstone; Winton Formation; Namba Formation; Boorthanna Formation; Cretaceous

Rio Tinto Exploration; Lake Eyre Project

4 Introduction, History and Exploration Rationale

4.1 Tenure

The surrendered tenements, EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742, are all 100% owned and operated by Rio Tinto Exploration Pty Ltd. They cover a combined area of 5,692 km^2. The tenements were granted on 3 May 2011. RTX surrendered the tenements on 7 March 2013. Further details of the tenements are given below in Table 1 and Table 2.

Tenement Number	Tenement Name	Tenement Status	Tenement Holder	Tenement Operator	Project
EL 4733	Victory Dam	Surrendered	Rio Tinto Exploration Pty Ltd (100%)	Rio Tinto Exploration Pty Ltd	Lake Eyre Uranium Project
EL 4735	Lake Harry	Surrendered			
EL 4736	Muloorina	Surrendered			
EL 4737	Dillinna	Surrendered			
EL 4740	Mudlark Dam	Surrendered			
EL 4741	Jackboot Bay	Surrendered			
EL 4742	Cooryabbie	Surrendered			

Table 1: Summary of EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Tenure (part 1)

Tenement Number	Grant Date	Surrender Date	Area (km^2)	Total Expenditure
EL 4733	3 May 2011	7 March 2013	623	$ 12,363.52
EL 4735	3 May 2011	7 March 2013	970	$ 14,134.73
EL 4736	3 May 2011	7 March 2013	821	$ 12,881.96
EL 4737	3 May 2011	7 March 2013	950	$ 13,957.28
EL 4740	3 May 2011	7 March 2013	943	$ 13,944.04
EL 4741	3 May 2011	7 March 2013	999	$ 14,371.33
EL 4742	3 May 2011	7 March 2013	386	$ 9,199.94
TOTAL			**5,692**	$ 90,852.80

Table 2: Summary of EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Tenure (part 2)

4.2 Location

EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 are located in South Australia approximately 350 km north of Port Augusta and around 150 km north of Olympic Dam. The tenements are situated in the area to the west of the township of Marree, to the south of the township of William Creek, and to the southwest of Lake Eyre. They are situated on five 1:250,000 Map Sheets: Warrina (SH5303), Lake Eyre (SH5304), Billa Kalina (SH5307), Curdimurka (SH5308) and Marree (SH5405). Road access to the tenements is via the Oodnadatta Track and various station and other minor tracks between William Creek and Marree (Figure 2).

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

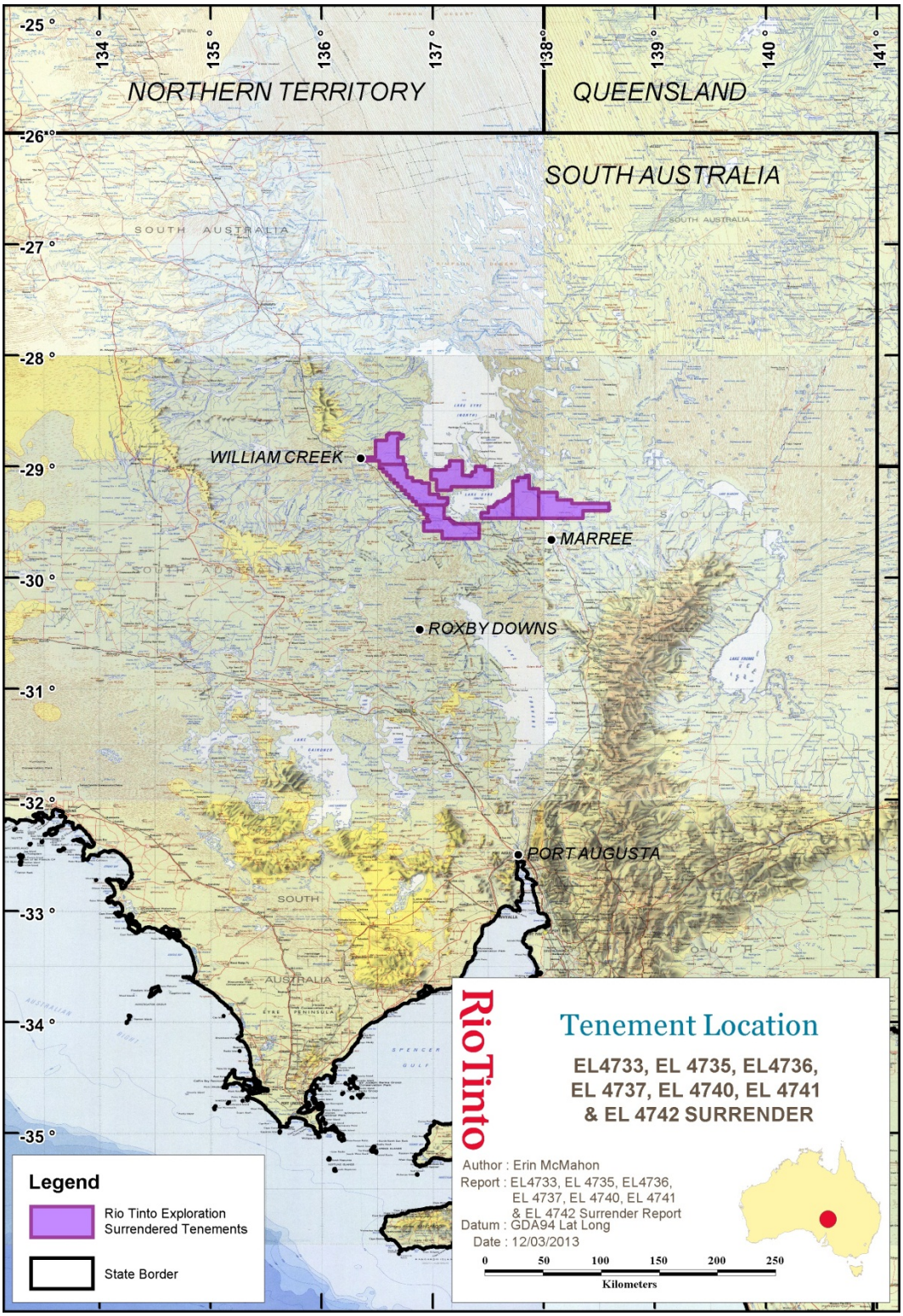


Figure 2: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Location Map

4.3 Literature Search

A tenement and literature search was conducted and previous exploration reviewed. A summary is provided in the following section, Exploration/Mining History.

Historic drillholes in and around the EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 were reviewed to identify holes which intersected Cretaceous sandstones. Three drillholes were identified: WLE 1A, DC09D01, and CLAYTON BORE 2. Three further holes intersected shallower Late Cretaceous and Tertiary sandstone units: MULOORINA 2, LAKE EYRE BORE SOUTH 8A and CROWS NEST 2. Available historical reports were located for these drillholes. The following uranium results were noted:

WLE 1A is situated ~40km north of the western end of the project. A downhole gamma probe trace in an historic report had background gamma radiation readings of ~10 to 20cps for the majority of the hole. The Cadna-owie and Algebuckina sandstone units (275 to 295m depth) had average gamma readings of ~50cps. (Price *et al.* 1980)

No gamma or uranium information was located in reports for the other holes.

4.4 Exploration/Mining History

The Lake Eyre Project area has been extensively explored. A search of the SARIG tenement database returned thirty eight past holders with tenements intersecting EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742, with exploration occurring since the mid-1970s.

Due to the large number of explorers in the area only those with significant tenure overlaps, uranium exploration and exploration within the last 25 years were investigated. Companies which met these criteria, but did not conduct any exploration, have not been discussed below.

Status Minerals NL and Consolidated Rutile Ltd (1986-1990)

Status Minerals NL and Consolidated Rutile Ltd explored an area which now covers parts of RTX tenements EL 4737, EL 4740 and EL 4742 in the late 1980s. They explored for celestite, with work including market research, stream sediment, soil and bedrock sampling, and backhoe trenching and drilling. They defined a number of small celestite and strontium bearing limestone occurrences. The reason for the cessation of the project was not mentioned. (Butt & Barrett, 1988)

Tasman Resources NL (1998-2009)

Tasman Resources NL explored for various commodities over a period of approximately a decade in the area now partially covered by RTX tenements EL 4737 and EL 4740. Targets included IOCG-U, zinc, copper and base metals. Work on RTX ground included mainly data compilation and review, reprocessing of various geophysical data and geochemical surface sampling. More advanced exploration was only conducted at prospects outside of the current RTX Lake Eyre Project. Portions of Tasman tenements covering RTX ground were relinquished at various times due to a lack of anomalous results for any of the targeted commodities. (Glasson *et al.* 2008, Jeffress 2003)

Red Metal Ltd (2007-2009)

Red Metal Ltd explored for sedimentary and hardrock (kimberlite) diamonds within Mesozoic strata along the southern edge of the Peake and Denison Inliers from 2007 to 2009. The exploration covered parts of RTX tenements EL 4733 and EL 4740. Previous exploration data and available magnetic datasets were reviewed. Gravity surveys were planned over selected buried basement anomalies, however the ground was surrendered due to a change in company exploration priorities. (McKay 2009)

Eromanga Uranium Limited (2007-2008)

Eromanga Uranium Limited explored for palaeochannel sandstone hosted uranium deposits within Mesozoic or Tertiary strata from 2007 to 2008. The north of their project was situated on parts of RTX tenements EL 4735 and EL 4736. They conducted ground-truthing of airborne radiometric anomalies and investigated outcropping prospective sandstone units. Four Tertiaty Eyre Formation surface sample assays (from just south of the RTX tenements) returned U readings of 9-40 ppm. It was determined that the source of uranium radiation was from weathered rocks below the basal Tertiary and Quaternary unconformities, not the targeted sandstone Formations. It was concluded that the prospectivity was much decreased and the licences were relinquished. (Abbott 2008)

4.5 Exploration Targets, Objectives and Rationale

Rio Tinto Exploration Pty Limited (RTX) is exploring for sandstone hosted uranium deposits within South Australia. Project generation utilising open file data identified the Cadna-owie Formation in the Eromanga Basin as the most prospective target for such a deposit. The Lake Eyre Project area was defined as a key target (Figure 3).

Based on the project generation work carried out, RTX applied for a block of 11 tenements which now make up the Lake Eyre Project (four tenements were surrendered in 2012).

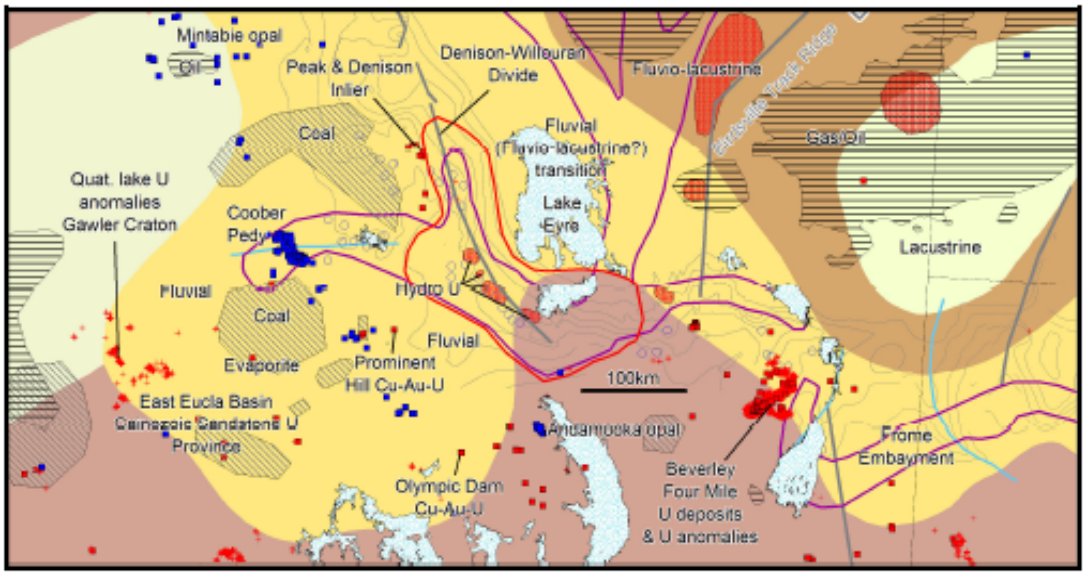


Figure 3: Lake Eyre Target

5 Geology

5.1 Regional Setting and Geological Mapping Results

EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 are situated on five 1:250,000 Map Sheets: Warrina (SH5303), Lake Eyre (SH5304), Billa Kalina (SH5307), Curdimurka (SH5308) and Marree (SH5405). Road access to the tenements is via the Oodnadatta Track and various station and other minor tracks between William Creek and Marree (Figure 2).

The predominant hydrological features are the usually dry salt lakes; Lake Eyre South, to the east, and Lake Eyre, to the northeast of the tenements. Most watercourses in the area drain northerly into the Lake Eyre depression. The Willouran Range (Adelaidean outcrop) occurs to the southeast of the tenements and there are high plateaus and mesas across the surrendered area. The remainder of the area is dominated by broad gibber plains, dunes and sand. A series of mound springs occur in the area, discharging from the underlying Great Artesian Basin. (Krieg *et al.* 1991)

Review of Geological Survey of SA maps shows that the surface geology of the surrendered tenements is dominated by Bulldog Shale with small areas of Cadna-owie Formation outcropping in the far southwest. The remainder of the area consists of Tertiary and Quaternary alluvial, fluvial, aeolian and playa sediments (Figure 4).

RTX did not conduct any geological mapping of EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742.

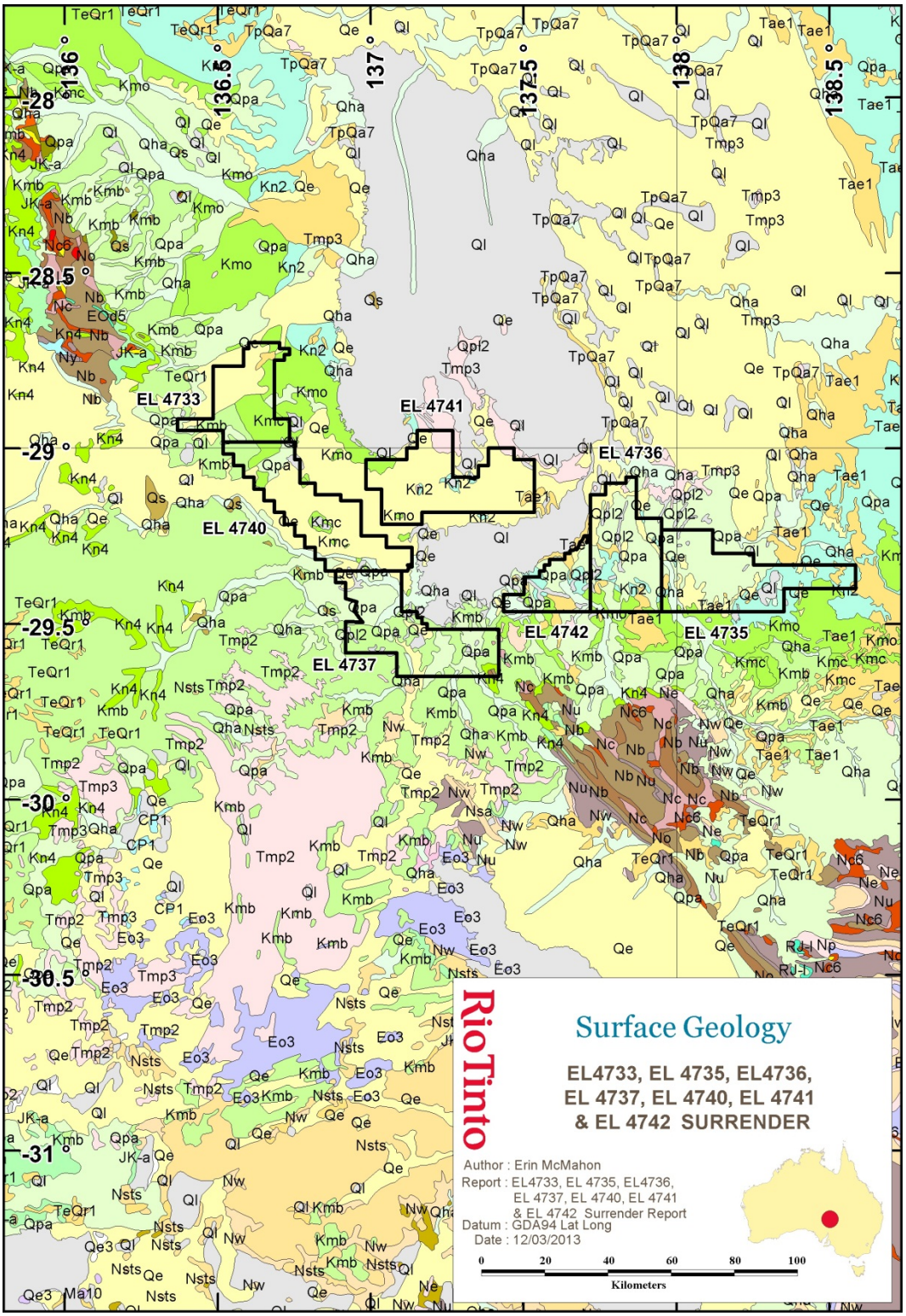


Figure 4: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Surface Geology Map

5.2 Structural Interpretation and Mineralisation Models

The surrendered tenements are situated over the Eromanga Basin or Great Artesian Basin. The Early Jurassic to Late Cretaceous, multi-aquifer basin covers over one million square kilometres in central and eastern Australia, including a 360,000 km^2 area in the northeast of South Australia. Figure 5 and Figure 6 provide a geological and stratigraphic summary of the Eromanga Basin. (PIRSA Flyer 2005)

The Eromanga Basin consists of three main sequences: the lower non-marine, the marine and the upper non-marine. The lower non-marine consists of fluvial sandstones interbedded with shales and discontinuous thin coals (Poolowanna Formation), overlain by a thick fine to coarse grained sandstone unit with granule and pebble layers and shale interclasts (Algebuckinga Sandstone). The lower non-marine sequence is prospective for oil and gas. (PIRSA Flyer 2005)

The marine sequence represents a transition from non-marine to marginal marine to open marine shale and sandstone. The Cadna-owie Formation which lies at the base of this sequence consists of non-marine to marine sandstone, siltstone, calcareous sandstone and pebbly sandstone. The Cadna-owie is overlain by the thick Marree Subgroup, which includes the siltstone and mudstone dominated Bulldog Shale and Oodnadatta Formation. In places the Coorikiana Sandstone is present between these two Formations. (PIRSA Flyer 2005)

The upper non-marine sequence consists of the Winton Formation, a mixture of lithic and feldspathic sandstone, mudstone, siltstone and minor conglomerate. Local coal, lignite and volcanic detritus are also present. (PIRSA Flyer 2005)

The centre of the basin is overlain by the younger Tertiary to Recent Lake Eyre Basin. The basin stratigraphy consists of the Eyre Formation (quartzose sandstone to minor pebbly sandstone and conglomerate), the Namba Formation (fine to medium grained sand, silt and thin dolomite beds) and the overlying Pliocene-Quaternary sediments. (PIRSA Flyer 2005, Moussavi-Harami 1998)

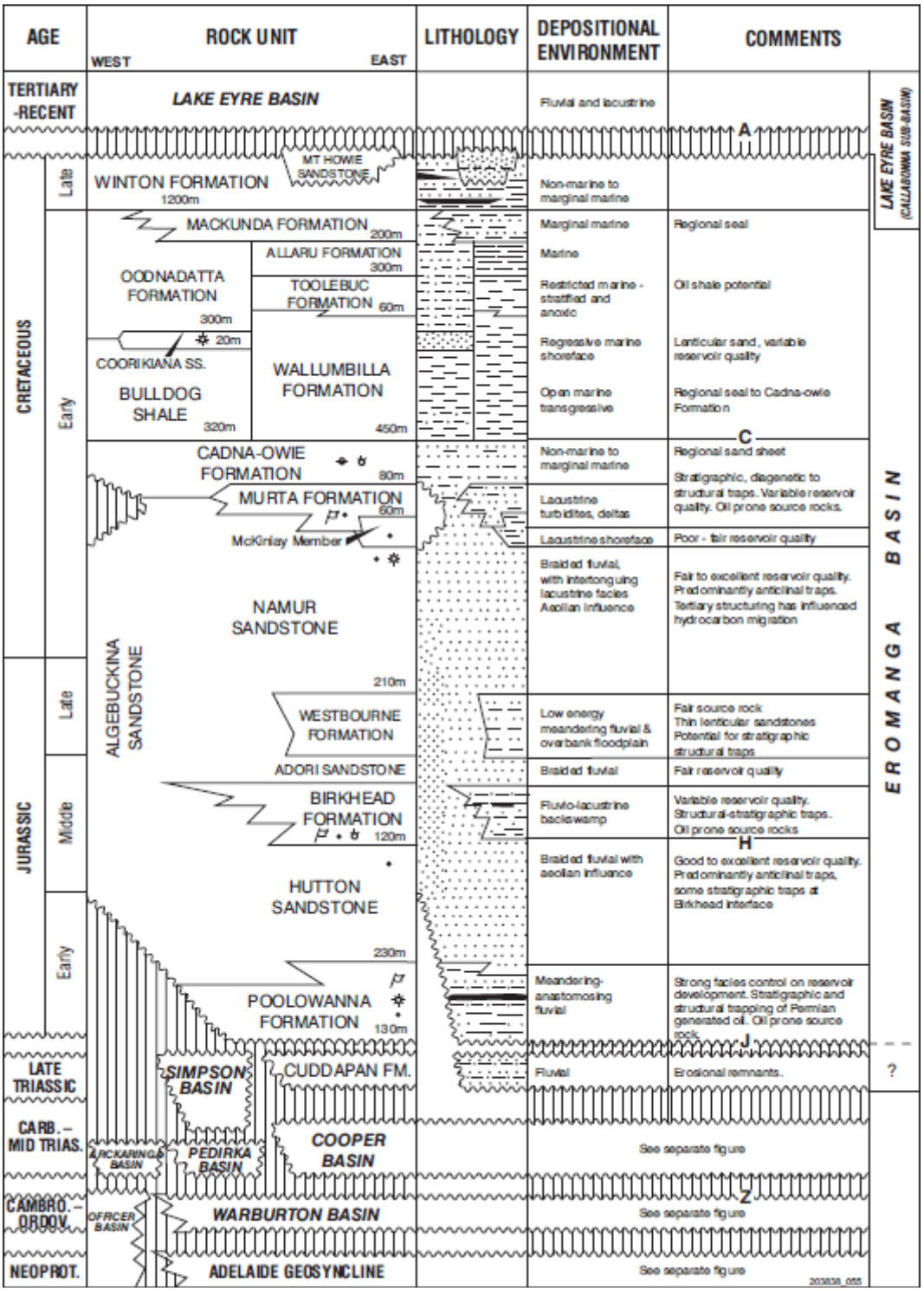


Figure 5: Geological Summary of the Eromanga Basin (Cooper Region) (PIRSA Flyer, 2005)

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

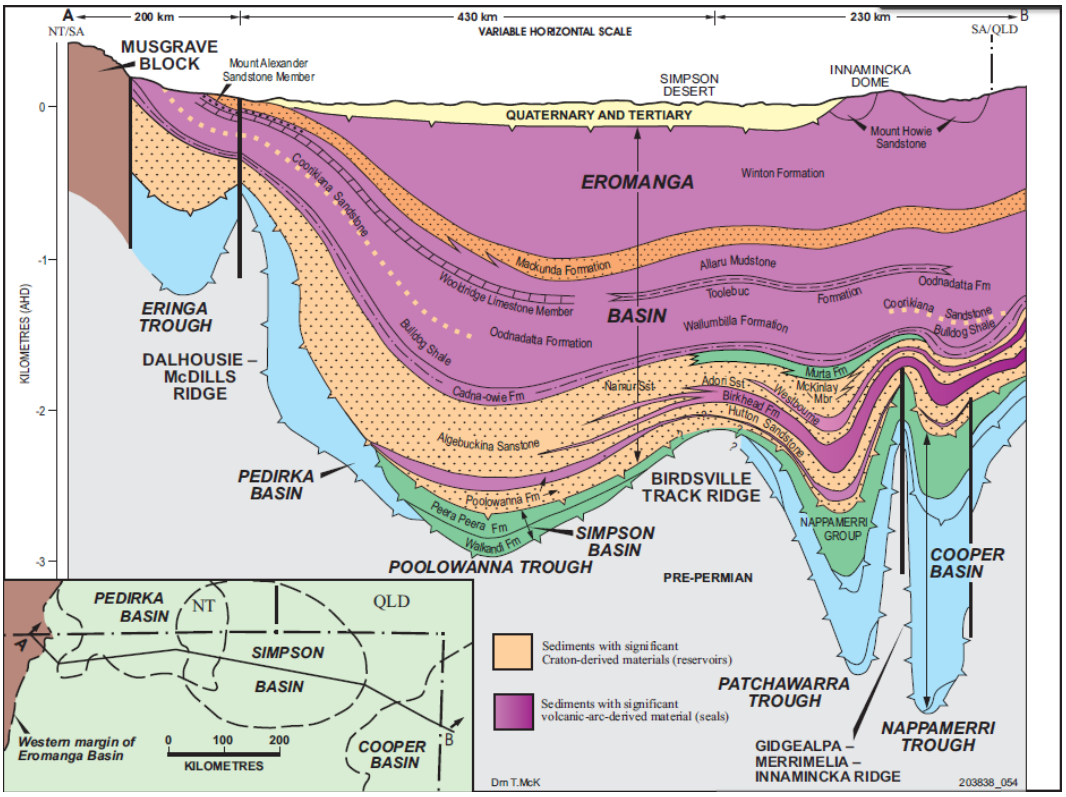


Figure 6: Schematic section across the Eromanga, Pedirka and Simpson Basins (PIRSA Flyer, 2005)

RTX is targeting Cretaceous sandstone aquifers, particularly the Cadna-owie formation within the Eromanga Basin, which has been identified as having properties conducive to hosting a giant sandstone uranium deposit. The Cadna-owie is overlain by the Bulldog Shale aquitard, meaning potential uranium deposits may be suitable for in-situ leach mining.

In the area covered by EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 the top of the Cadna-owie Formation is between approximately 50 m above sea level and 600 m below sea level. The Cadna-owie Formation is approximately 10 to 50 m thick beneath the majority of the tenements (light blue) and increases to approximately 300 m thickness beneath the northwest tenements.

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

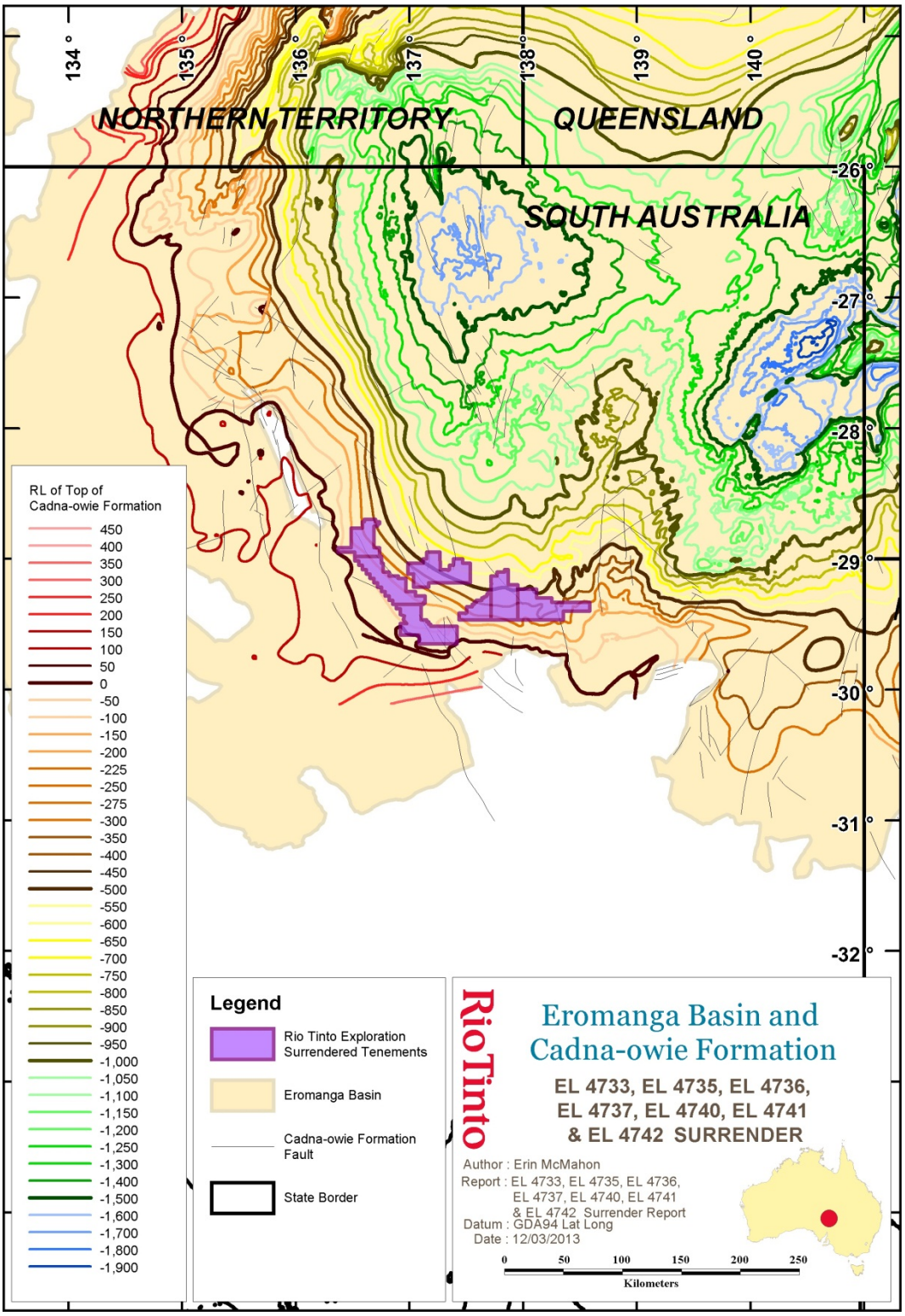


Figure 7: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 with Eromanga Basin and Top of Cadna-owie Formation Contours

6 Drilling

6.1 General overview

No drilling was completed by RTX, however, historic drillholes of interest were assessed at the DMITRE Core Library in Adelaide from 27 February to 2 March 2012.

Historic drillholes in and around EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 were reviewed to identify holes which had intersected Cretaceous sandstones. Three drillholes were identified: WLE 1A, DC09D01, and CLAYTON BORE 2. WLE 1A is located ~40km north of EL 4733, DC09D01 just north of EL 4733 and CLAYTON BORE 2 just north of EL 4735. Three further holes intersected shallower Late Cretaceous and Tertiary sandstone units: MULOORINA 2, LAKE EYRE BORE SOUTH 8A and CROWS NEST 2 (Figure 8). WLE 1A and CLAYTON BORE 2 had sufficient drillhole core or chips within the Cadna-owie Formation to analyse.

6.2 Drillhole Log Data

Geological logs were recorded for relevant sections of each historic drillhole. Handheld scintillometer and magnetic susceptibility readings were taken. Background scintillometer readings were approximately 40 to 50 CPS, with a maximum reading of approximately 70 CPS. Where scintillometer readings were sufficiently above background (~60 CPS) a Niton handheld XRF unit was used to more accurately determine the uranium levels. The Niton uranium readings were then used to assist with the selection of samples for assay analysis.

WLE 1A

WLE 1A is approximately 40km north of the western end of the project. Only six metres (275 to 281m) is recorded as Cadna-owie in the stratigraphic logging. This is underlain by a further fourteen metres (281 to 295m) of the Algebuckina Sandstone unit. A downhole gamma trace for WLE 1A was found in an historic report. It showed background levels of ~10 to 20cps for the entire hole above the Cadna-owie, with around 50cps in the Cadna-owie and Algebuckina.

Drill chips from 244 to 296m were logged, with no sample available for 260 to 280m (which includes the Cadna-owie). The available material was all logged as brown siltstone, with no sandstone logged. In an historic report only stratigraphic units are assigned to WLE 1A along the downhole gamma trace, with detailed geological logging not reported. It is therefore difficult to ascertain if there is a problem with the original logging or there is a mix up with the drillhole or samples. No elevated gamma levels were found in the assessed samples.

CLAYTON BORE 2

CLAYTON BORE 2 is located at the eastern end of the project, with a 62 metre thick Cadna-owie intersection at a depth of 486 to 548m. Re-logging confirmed 496 to 547m consisted of a reduced brown very fine to fine generally well sorted sandstone unit, with brown siltstone above and grey-brown siltstone below. No anomalous gamma readings were recorded.

CROWS NEST 2

CROWS NEST 2 is situated in the eastern end of the project, in tenement EL 4736. The hole was not deep enough to intersect the Cadna-owie. The hole intersected tertiary surface sediments, the Mackunda Formation from 2 to 53m and the Oodnadatta Formation from 53 to 71m. No elevated gamma readings were recorded.

MULOORINA 2 and LAKE EYRE BORE SOUTH 8A

Due to time constraints these holes were not logged, as they do not intersect the Cadna-owie Formation. They were quickly scanned with a handheld scintillometer, which returned no anomalous gamma readings.

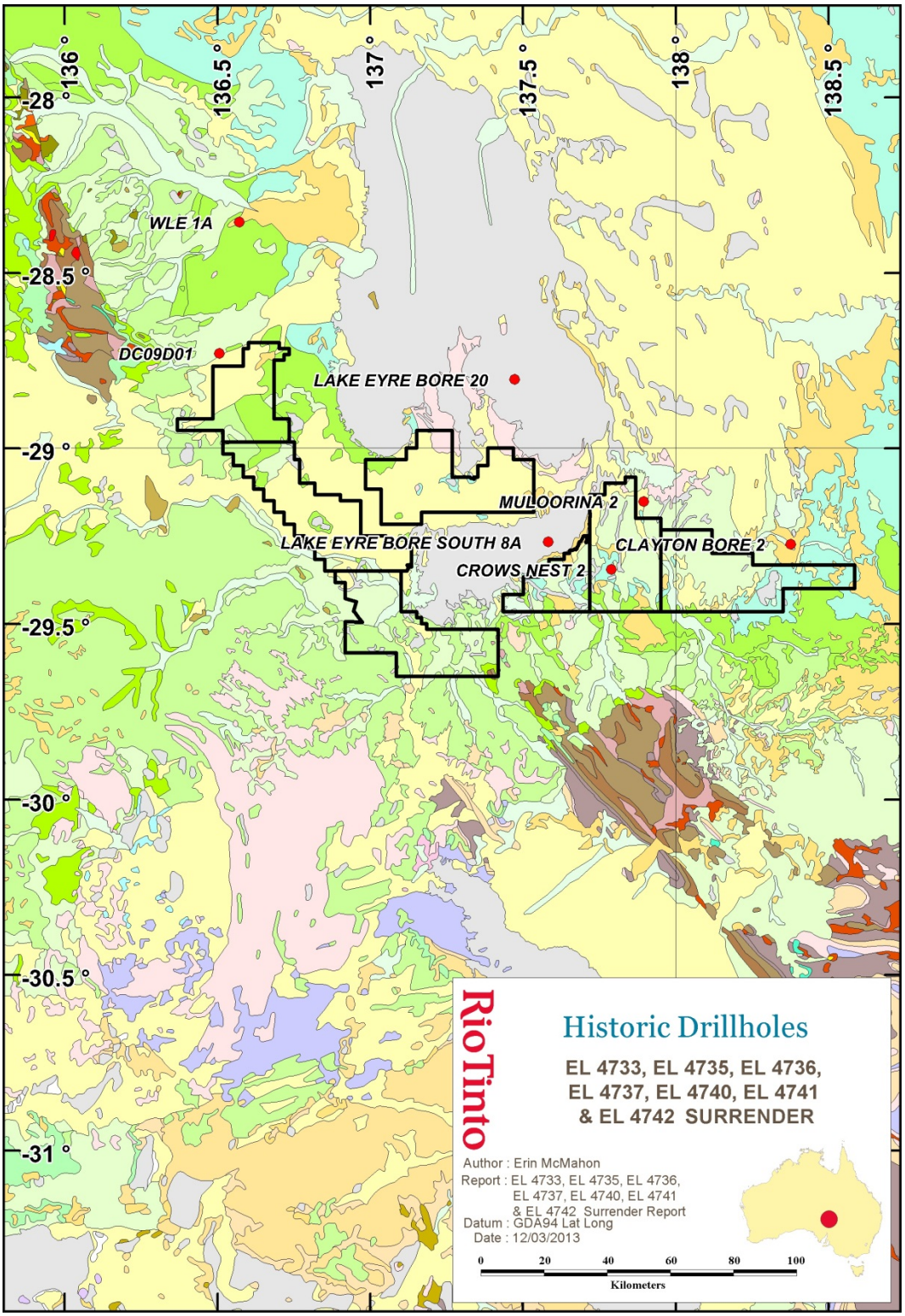


Figure 8: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Historic Drillholes

6.3 Analytical Results

As no anomalous uranium readings were observed with the Niton handheld XRF analyser in the selected drillholes, no samples were selected for assay analysis.

7 Other Studies or Work

7.1 Heritage Agreement

Negotiations with traditional owners for land access were underway when the tenements were surrendered. As a land access agreement was not finalised prior to relinquishment no on-ground exploration activities were undertaken on EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742.

8 Expenditure Statement

A breakdown of the total expenditure for the full granted term of each tenement is shown in the table below. The majority of the expenditure related to a literature review and the DMITRE core library visit. A small amount was for land title rentals.

Tenement Number	Expenditure Period	Activity				Cumulative Total Expenditure
		Technical Review	Tenement Rent and Rates	Travel and Accommodation	Laboratory	
EL 4733	3 May 2011 to 7 March 2013	$4,461.66	$5,365.90	$1,357.27	$1,333.61	$12,518.44
EL 4735		$4,485.23	$8,306.50		$1,343.00	$14,134.73
EL 4736		$4,485.23	$7,039.00	$14.73	$1,343.00	$12,881.96
EL 4737		$4,485.23	$8,129.05		$1,343.00	$13,957.28
EL 4740		$4,485.23	$8,061.45	$54.36	$1,343.00	$13,944.04
EL 4741		$4,485.23	$8,543.10		$1,343.00	$14,371.33
EL 4742		$4,485.22	$3,371.70		$1,343.00	$9,199.92
Total Expenditure for all tenements		$31,373.03	$48,816.70	$1,426.36	$9,391.61	$91,007.70

Table 3: EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 Tenement Expenditure Summary

9 Conclusions

Inspection of historic drillholes and assay analysis did not reveal any uranium mineralisation within Cretaceous sandstone units in EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742.

Geological logging and Niton handheld XRF analysis of the holes within and around EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 showed very few encouraging signs that indicate the presence of a sandstone hosted uranium deposit. There appears to be little organic matter in the sandstone and the redox fronts are extremely small. Therefore, it was decided tenements in EL 4733, EL 4735, EL 4736, EL 4737, EL 4740, EL 4741 and EL 4742 should be relinquished.

10 References

Abbott, S 2008, *Callanna and Marree areas (Marree West Project). Combined first annual/final report to licences' expiry/surrender for the period 22/10/2007 to 21/10/2008,* Eromanga Uranium Limited

Butt, BC & Barrett, PJ, 1988, *Curdimurka. Progress reports for the period 19/12/86 to 18/6/88,* Status Minerals NL & Consolidated Rutile Ltd

Clarke, DB, 1982, *Kadlongaroo Hill Progress and Final Reports for the Period 11/8/81 to 10/8/82,* Santos Ltd

Glasson, MJ, Moyle, AJ, Thompson, AD & Robinson, W, 2008, *Bopeechee, Final report at licence expiry/surrender for the period 16/11/2000 to 27/7/2008,* Tasman Resources NL

Jeffress, GM, 2003, *Depot Creek, Myrtle Springs West, Mulgaria Creek, Wangianna and Bluebush Dam [Lake Torrens Project combined ELs reporting group]. First partial relinquishment report for the period 24/9/99 to 31/12/2002,* Tasman Resources NL

Krieg, GW, Rogers PA, Callen, RA, Freeman, PJ, Alley, NF & Forbes, BG, 1991, *Explanatory Notes for the Curdimurka 1:250000 Geological Map,* Department of Mines and Energy South Australia

McKay, G, 2009, *Irrapatana. First annual and final reports to licence expiry/surrender for the period 2/7/2007 to 1/7/2008,* Red Metal Ltd

Moussavi-Harami , R, 1998, 'Tertiary Stratigraphy and Tectonics, Eromanga Basin Region', *MESA,* Vol. 8

PIRSA Flyer, 2005, *Petroleum & Geothermal in South Australia,* PIRSA

Price, DG, Raetz, MC, Rau, BA, Lowder, GG & Fander, HW, 1980, *West Lake Eyre Progress and Final Reports to Licence Surrender for the Period 25/1/80 to 13/6/80*, Dampier Mining Co Ltd

Walker, S, 1999, 'Beverley Uranium Project', *MESA*, vol. 13

11 Appendices

The data in the following appendices is also available in digital format in the files accompanying this report:

Lake_Eyre_01_2013_S_DrillCollars.txt
Lake_Eyre_02_2013_S_Lithology.txt
Lake_Eyre_04_2013_S_Survey.txt
Lake_Eyre_18_2013_S_PhysProps.txt

11.1 Appendix 1: Collar Data

H0002	Version	3										
H0003	Date_generated	11-Mar-13										
H0004	Reporting_period_end_date	7-Mar-13										
H0005	State	SA										
H0100	Tenement_no	EL 4733	EL 4735	EL 4736	EL 4737	EL 4740	EL 4741	EL 4742				
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd										
H0102	Project_name	Lake Eyre										
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd										
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405						
H0151	100K_map_sheet_number	N/A										
H0152	50K_map_sheet_number	N/A										
H0153	25K_map_sheet_number	N/A										
H0200	Start_date_of_data_acquisition	27-Feb-12										
H0201	End_date_of_data_acquisition	2-Mar-12										
H0202	Data_format	SL3										
H0203	Number_of_data_records	4										
H0204	Date_of_metadata_update	30-May-12										
H0301	Location_data_file	Lake_Eyre_01_2013_S_DrillCollars.txt										
H0302	Lithology_data_file	Lake_Eyre_02_2013_S_Lithology.txt										
H0303	Assay_data_file	N/A										
H0304	Survey_data_file	Lake_Eyre_04_2013_S_Survey.txt										
H0305	Sample_Data_File	N/A										
H0307	Lithology_code_file	N/A										
H0308	File Verification List	N/A										
H0318	PhysProps_data_file	Lake_Eyre_182013_S_PhysProps.txt										
H0400	Drill_code	UNKN										
H0402	Drill_description	UNKN										
H0500	Feature_type	hole collar										
H0501	Geodetic_datum	GDA 94										
H0502	Vertical_datum	AHD										
H0503	Projection	UTM										
H0530	Coordinate_system	Projected										
H0531	Projection_zone	53	54									
H0900	Comments	N/A										
H1000	HOLEID	PROJECTCODE	ENDDATE	DEPTH	EAST	NORTH	GRIDNAME	D_SurveyMethod	D_Commodity	D_Property	D_Company	CollarComments
H1001					metre	metre						
D	CLAYTON BORE 2	LAKEEYRE	12/11/1983	570	245022	6758997	GDA94_MGA_54	PublishedReport			DeptMinesEnergySA	Information from SARIG database: Commodity Water
D	CROWS NEST 2	LAKEEYRE	23/05/1985	71	770823	6750624.04	GDA94_MGA_53	PublishedReport			DeptMinesEnergySA	Information from SARIG database: Previous Unit Number: 6439-22 (coordinates mistakenly changed)
D	LAKE EYRE BORE SOUTH 8A	LAKEEYRE	17/10/1961	71.63	750916.77	6759820.11	GDA94_MGA_53	PublishedReport			DeptMinesEnergySA	Information from SARIG database
D	WLE 1A	LAKEEYRE	22/02/1980	296.1	653994.82	6862447.14	GDA94_MGA_53	PublishedReport	Gold	EL 583	DampierMining	Information from SARIG database. Commodities Gold, Base Metals

11.2 Appendix 2: Survey Data

H0002	Version	3								
H0003	Date_generated	11-Mar-13								
H0004	Reporting_period_end_date	7-Mar-13								
H0005	State	SA								
H0100	Tenement_no	EL 4733	EL 4735	EL 4736	EL 4737	EL 4740	EL 4741	EL 4742		
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd								
H0102	Project_name	Lake Eyre								
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd								
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405				
H0151	100K_map_sheet_number	N/A								
H0152	50K_map_sheet_number	N/A								
H0153	25K_map_sheet_number	N/A								
H0200	Start_date_of_data_acquisition	27-Feb-12								
H0201	End_date_of_data_acquisition	2-Mar-12								
H0202	Data_format	SL3								
H0203	Number_of_data_records	4								
H0204	Date_of_metadata_update	30-May-12								
H0301	Location_data_file	Lake_Eyre_01_2013_S_DrillCollars.txt								
H0302	Lithology_data_file	Lake_Eyre_02_2013_S_Lithology.txt								
H0303	Assay_data_file	N/A								
H0304	Survey_data_file	Lake_Eyre_04_2013_S_Survey.txt								
H0305	Sample_Data_File	N/A								
H0307	Lithology_code_file	N/A								
H0308	File Verification List	N/A								
H0318	PhysProps_data_file	Lake_Eyre_182013_S_PhysProps.txt								
H0400	Drill_code	3								
H0402	Drill_description	UNKN								
H0500	Feature_type	hole survey								
H0501	Geodetic_datum	GDA 94								
H0502	Vertical_datum	AHD								
H0503	Projection	UTM								
H0530	Coordinate_system	Projected								
H0531	Projection_zone	53	54							
H0532	Surveying_instrument	N/A								
H0533	Surveying_company	N/A								
H0900	Comments	N/A								
H1000	HOLEID	PROJECTCODE	DEPTH	D_SurveyMethod	AZI	DIP	GRIDNAME	Date_Surveyed	Survey_Company	SurveyComments
H1001										
D	CLAYTON BORE 2	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_54	12/11/1983	UNKN	
D	CROWS NEST 2	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	23/05/1985	UNKN	
D	LAKE EYRE BORE SOUTH 8A	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	17/10/1961	UNKN	
D	WLE 1A	LAKEEYRE	0	PublishedReport	0	-90	GDA94_MGA_53	22/02/1980	UNKN	

11.3 Appendix 3: Physical Properties Data

H0002	Version	3						
H0003	Date_generated	11-Mar-13						
H0004	Reporting_period_end_date	7-Mar-13						
H0005	State	SA						
H0100	Tenement_no	EL 4733	EL 4735	EL 4736	EL 4737	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd						
H0102	Project_name	Lake Eyre						
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd						
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405		
H0151	100K_map_sheet_number	N/A						
H0152	50K_map_sheet_number	N/A						
H0153	25K_map_sheet_number	N/A						
H0200	Start_date_of_data_acquisition	27-Feb-12						
H0201	End_date_of_data_acquisition	2-Mar-12						
H0202	Data_format	SL3						
H0203	Number_of_data_records	150						
H0204	Date_of_metadata_update	30-May-12						
H0301	Location_data_file	Lake_Eyre_01_2013_S_DrillCollars.txt						
H0302	Lithology_data_file	Lake_Eyre_02_2013_S_Lithology.txt						
H0303	Assay_data_file	N/A						
H0304	Survey_data_file	Lake_Eyre_04_2013_S_Survey.txt						
H0305	Sample_Data_File	N/A						
H0307	Lithology_code_file	N/A						
H0308	File Verification List	N/A						
H0318	PhysProps_data_file	Lake_Eyre_182013_S_PhysProps.txt						
H0400	Drill_code	UNKN						
H0402	Drill_description	UNKN						
H0500	Feature_type	downhole assays						
H0900	Comments	N/A						

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	CLAYTON BORE 2	LAKEEYRE	296	298	53	
D	CLAYTON BORE 2	LAKEEYRE	298	300	52	
D	CLAYTON BORE 2	LAKEEYRE	300	302	44	
D	CLAYTON BORE 2	LAKEEYRE	302	304	51	
D	CLAYTON BORE 2	LAKEEYRE	304	306	43	
D	CLAYTON BORE 2	LAKEEYRE	306	308	45	
D	CLAYTON BORE 2	LAKEEYRE	308	310	51	
D	CLAYTON BORE 2	LAKEEYRE	310	312	52	
D	CLAYTON BORE 2	LAKEEYRE	312	314	55	
D	CLAYTON BORE 2	LAKEEYRE	314	316	50	
D	CLAYTON BORE 2	LAKEEYRE	316	318	48	
D	CLAYTON BORE 2	LAKEEYRE	318	320	41	
D	CLAYTON BORE 2	LAKEEYRE	320	322	40	
D	CLAYTON BORE 2	LAKEEYRE	322	324	47	
D	CLAYTON BORE 2	LAKEEYRE	324	326	46	
D	CLAYTON BORE 2	LAKEEYRE	326	328	50	
D	CLAYTON BORE 2	LAKEEYRE	328	330	49	
D	CLAYTON BORE 2	LAKEEYRE	330	332	46	
D	CLAYTON BORE 2	LAKEEYRE	332	334	46	
D	CLAYTON BORE 2	LAKEEYRE	334	336	48	
D	CLAYTON BORE 2	LAKEEYRE	476	478	58	
D	CLAYTON BORE 2	LAKEEYRE	478	480	51	
D	CLAYTON BORE 2	LAKEEYRE	480	482	43	
D	CLAYTON BORE 2	LAKEEYRE	482	484	56	
D	CLAYTON BORE 2	LAKEEYRE	484	486	58	
D	CLAYTON BORE 2	LAKEEYRE	486	488	50	
D	CLAYTON BORE 2	LAKEEYRE	488	490	59	
D	CLAYTON BORE 2	LAKEEYRE	490	492	48	
D	CLAYTON BORE 2	LAKEEYRE	492	494	48	
D	CLAYTON BORE 2	LAKEEYRE	494	496	53	
D	CLAYTON BORE 2	LAKEEYRE	496	498	55	
D	CLAYTON BORE 2	LAKEEYRE	498	500	52	
D	CLAYTON BORE 2	LAKEEYRE	500	502	55	
D	CLAYTON BORE 2	LAKEEYRE	502	504	54	
D	CLAYTON BORE 2	LAKEEYRE	504	506	52	
D	CLAYTON BORE 2	LAKEEYRE	506	508	53	
D	CLAYTON BORE 2	LAKEEYRE	508	510	54	
D	CLAYTON BORE 2	LAKEEYRE	510	512	52	
D	CLAYTON BORE 2	LAKEEYRE	512	514	55	
D	CLAYTON BORE 2	LAKEEYRE	514	516	57	
D	CLAYTON BORE 2	LAKEEYRE	516	518	53	
D	CLAYTON BORE 2	LAKEEYRE	518	520	52	
D	CLAYTON BORE 2	LAKEEYRE	520	522	54	
D	CLAYTON BORE 2	LAKEEYRE	522	524	55	
D	CLAYTON BORE 2	LAKEEYRE	524	526	55	
D	CLAYTON BORE 2	LAKEEYRE	526	528	56	
D	CLAYTON BORE 2	LAKEEYRE	528	530	53	
D	CLAYTON BORE 2	LAKEEYRE	530	532	49	
D	CLAYTON BORE 2	LAKEEYRE	532	534	50	
D	CLAYTON BORE 2	LAKEEYRE	534	536	56	
D	CLAYTON BORE 2	LAKEEYRE	536	538	53	
D	CLAYTON BORE 2	LAKEEYRE	538	539	51	
D	CLAYTON BORE 2	LAKEEYRE	539	540	52	
D	CLAYTON BORE 2	LAKEEYRE	540	541	49	
D	CLAYTON BORE 2	LAKEEYRE	541	542	52	
D	CLAYTON BORE 2	LAKEEYRE	542	543	52	
D	CLAYTON BORE 2	LAKEEYRE	543	544	47	
D	CLAYTON BORE 2	LAKEEYRE	544	545	58	
D	CLAYTON BORE 2	LAKEEYRE	545	546	53	
D	CLAYTON BORE 2	LAKEEYRE	546	547	52	
D	CLAYTON BORE 2	LAKEEYRE	547	548	57	
D	CLAYTON BORE 2	LAKEEYRE	548	549	55	
D	CLAYTON BORE 2	LAKEEYRE	549	550	51	
D	CLAYTON BORE 2	LAKEEYRE	550	551	58	
D	CLAYTON BORE 2	LAKEEYRE	551	552	58	
D	CLAYTON BORE 2	LAKEEYRE	552	553	54	
D	CLAYTON BORE 2	LAKEEYRE	553	554	58	
D	CLAYTON BORE 2	LAKEEYRE	554	555	49	
D	CROWS NEST 2	LAKEEYRE	0	2	44	
D	CROWS NEST 2	LAKEEYRE	2	4	53	
D	CROWS NEST 2	LAKEEYRE	4	7	53	
D	CROWS NEST 2	LAKEEYRE	7	11	52	
D	CROWS NEST 2	LAKEEYRE	11	15	56	
D	CROWS NEST 2	LAKEEYRE	15	19	48	
D	CROWS NEST 2	LAKEEYRE	19	23	51	
D	CROWS NEST 2	LAKEEYRE	23	27	52	
D	CROWS NEST 2	LAKEEYRE	27	31	49	

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

H1000	Hole ID	ProjectCode	From	To	GammaTotCount	MagSus
H1001			metre	metre	cps	
D	CROWS NEST 2	LAKEEYRE	31	35	55	
D	CROWS NEST 2	LAKEEYRE	35	39	50	
D	CROWS NEST 2	LAKEEYRE	39	43	56	
D	CROWS NEST 2	LAKEEYRE	43	47	53	
D	CROWS NEST 2	LAKEEYRE	47	51	49	
D	CROWS NEST 2	LAKEEYRE	51	55	49	
D	CROWS NEST 2	LAKEEYRE	55	59	52	
D	CROWS NEST 2	LAKEEYRE	59	63	52	
D	CROWS NEST 2	LAKEEYRE	63	67	51	
D	CROWS NEST 2	LAKEEYRE	67	71	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	0	1.52	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	1.52	3.05	49	
D	LAKE EYRE BORE S 8A	LAKEEYRE	3.05	4.57	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	4.57	6.1	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	6.1	7.62	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	7.62	9.14	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	9.14	10.67	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	10.67	12.19	49	
D	LAKE EYRE BORE S 8A	LAKEEYRE	12.19	13.72	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	13.72	15.24	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	15.24	16.76	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	16.76	18.29	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	18.29	19.81	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	19.81	21.34	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	21.34	22.86	59	
D	LAKE EYRE BORE S 8A	LAKEEYRE	22.86	24.38	58	
D	LAKE EYRE BORE S 8A	LAKEEYRE	24.38	25.91	58	
D	LAKE EYRE BORE S 8A	LAKEEYRE	25.91	27.43	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	27.43	28.96	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	28.96	30.48	60	
D	LAKE EYRE BORE S 8A	LAKEEYRE	30.48	32	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	32	33.53	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	33.53	35.05	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	35.05	36.58	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	36.58	38.1	57	
D	LAKE EYRE BORE S 8A	LAKEEYRE	38.1	39.62	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	39.62	41.15	58	
D	LAKE EYRE BORE S 8A	LAKEEYRE	41.15	42.67	56	
D	LAKE EYRE BORE S 8A	LAKEEYRE	42.67	44.2	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	44.2	45.72	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	45.72	47.24	52	
D	LAKE EYRE BORE S 8A	LAKEEYRE	47.24	48.77	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	48.77	50.29	54	
D	LAKE EYRE BORE S 8A	LAKEEYRE	50.29	51.82	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	51.82	53.34	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	53.34	54.86	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	54.86	56.39	55	
D	LAKE EYRE BORE S 8A	LAKEEYRE	56.39	57.91	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	57.91	59.44	51	
D	LAKE EYRE BORE S 8A	LAKEEYRE	59.44	60.96	48	
D	LAKE EYRE BORE S 8A	LAKEEYRE	60.96	62.48	43	
D	LAKE EYRE BORE S 8A	LAKEEYRE	62.48	64.01	47	
D	LAKE EYRE BORE S 8A	LAKEEYRE	64.01	65.53	50	
D	LAKE EYRE BORE S 8A	LAKEEYRE	65.53	67.06	46	
D	LAKE EYRE BORE S 8A	LAKEEYRE	67.06	68.58	48	
D	LAKE EYRE BORE S 8A	LAKEEYRE	68.58	70.1	53	
D	LAKE EYRE BORE S 8A	LAKEEYRE	70.1	71.63	47	
D	WLE 1A	LAKEEYRE	244	246	48	0.000134
D	WLE 1A	LAKEEYRE	246	248	51	0.000175
D	WLE 1A	LAKEEYRE	248	250	49	0.000166
D	WLE 1A	LAKEEYRE	250	252	53	0.000209
D	WLE 1A	LAKEEYRE	252	254	49	0.000204
D	WLE 1A	LAKEEYRE	254	256	49	0.000202
D	WLE 1A	LAKEEYRE	256	258	50	0.000164
D	WLE 1A	LAKEEYRE	258	260	44	0.000129
D	WLE 1A	LAKEEYRE	280	282	60	0.000307
D	WLE 1A	LAKEEYRE	282	284	56	0.000665
D	WLE 1A	LAKEEYRE	284	286	55	0.000177
D	WLE 1A	LAKEEYRE	286	288	53	0.000047
D	WLE 1A	LAKEEYRE	288	290	56	0.000214
D	WLE 1A	LAKEEYRE	290	292	58	0.000117
D	WLE 1A	LAKEEYRE	292	294	58	0.000205
D	WLE 1A	LAKEEYRE	294	296	53	0.000034
EOF						

11.4 Appendix 4: Lithology Data

H0002	Version	3						
H0003	Date_generated	11-Mar-13						
H0004	Reporting_period_end_date	7-Mar-13						
H0005	State	SA						
H0100	Tenement_no	EL 4733	EL 4735	EL 4736	EL 4737	EL 4740	EL 4741	EL 4742
H0101	Tenement_Holder	Rio Tinto Exploration Pty Ltd						
H0102	Project_name	Lake Eyre						
H0106	Tenement_operator	Rio Tinto Exploration Pty Ltd						
H0150	250K_map_sheet_number	SH5303	SH5304	SH5307	SH5308	SH5405		
H0151	100K_map_sheet_number	N/A						
H0152	50K_map_sheet_number	N/A						
H0153	25K_map_sheet_number	N/A						
H0200	Start_date_of_data_acquisition	27-Feb-12						
H0201	End_date_of_data_acquisition	2-Mar-12						
H0202	Data_format	SL3						
H0203	Number_of_data_records	9						
H0204	Date_of_metadata_update	30-May-12						
H0301	Location_data_file	Lake_Eyre_01_2013_S_DrillCollars.txt						
H0302	Lithology_data_file	Lake_Eyre_02_2013_S_Lithology.txt						
H0303	Assay_data_file	N/A						
H0304	Survey_data_file	Lake_Eyre_04_2013_S_Survey.txt						
H0305	Sample_Data_File	N/A						
H0307	Lithology_code_file	N/A						
H0308	File Verification List	N/A						
H0318	PhysProps_data_file	Lake_Eyre_182013_S_PhysProps.txt						
H0400	Drill_code	UNKN						
H0402	Drill_description	UNKN						
H0500	Feature_type	downhole assays						
H0900	Comments	N/A						

EL4733, EL 4735, EL4736, EL 4737, EL 4740, EL 4741 and EL 4742

H1000	Hole ID	ProjectCode	From	To	Lith1	LithWeath	Lith1_GrainSize1	Lith1_GrainSize2	Lith1_Mod1	Lith1_Mod2	Lith1_Mod3	Lith1_Mod4
H1001			metre	metre								
D	CLAYTON BORE 2	LAKEEYRE	296	336	Siltstone		VeryFine					
D	CLAYTON BORE 2	LAKEEYRE	476	496	Siltstone		Fine					
D	CLAYTON BORE 2	LAKEEYRE	496	500	Sandstone		Fine					
D	CLAYTON BORE 2	LAKEEYRE	500	532	Sandstone		VeryFine	Fine				
D	CLAYTON BORE 2	LAKEEYRE	532	547	Sandstone		VeryFine	Fine	Friable			
D	CLAYTON BORE 2	LAKEEYRE	547	555	Siltstone				Friable			
D	WLE 1A	LAKEEYRE	244	256	Siltstone				Friable			
D	WLE 1A	LAKEEYRE	256	260	Siltstone							
D	WLE 1A	LAKEEYRE	280	296	Siltstone							

H1000	Hole ID	ProjectCode	From	To	Lith1_Colour1	Lith1_ColourMod1	Lith1_Colour2	Lith1_ColourMod2	Lith1_Roundness	Lith1_Sorting	Lith2
H1001			metre	metre							
D	CLAYTON BORE 2	LAKEEYRE	296	336	Brown	Dark				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	476	496	Brown	Dark				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	496	500	Brown	Light				PoorlySorted	
D	CLAYTON BORE 2	LAKEEYRE	500	532	Brown	Medium				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	532	547	Brown	Light				WellSorted	
D	CLAYTON BORE 2	LAKEEYRE	547	555	Brown	Light	Grey	Light			
D	WLE 1A	LAKEEYRE	244	256	Brown	Medium	Grey	Medium			
D	WLE 1A	LAKEEYRE	256	260	Brown	Light					
D	WLE 1A	LAKEEYRE	280	296	Brown	Medium					

H1000	Hole ID	ProjectCode	From	To	Min1	Min1_pct	Min1_Style	Min2	Min2_pct	Min2_Style	Min3	Min3_pct	Min3_Style
H1001			metre	metre		%			%			%	
D	CLAYTON BORE 2	LAKEEYRE	296	336									
D	CLAYTON BORE 2	LAKEEYRE	476	496									
D	CLAYTON BORE 2	LAKEEYRE	496	500	Muscovite			Quartz					
D	CLAYTON BORE 2	LAKEEYRE	500	532									
D	CLAYTON BORE 2	LAKEEYRE	532	547									
D	CLAYTON BORE 2	LAKEEYRE	547	555									
D	WLE 1A	LAKEEYRE	244	256									
D	WLE 1A	LAKEEYRE	256	260									
D	WLE 1A	LAKEEYRE	280	296									