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No. 12,201

EL 4325, EL 4327, EL 4331, EL 4346, EL 4347 AND EL 4348

PART OF EUCLA BASIN TENEMENT GROUP 4

**JOINT SURRENDER AND PARTIAL SURRENDER
REPORT FOR THE PERIOD 19/10/2009 TO 31/7/2011**

Submitted by
Iluka Resources Ltd
2011

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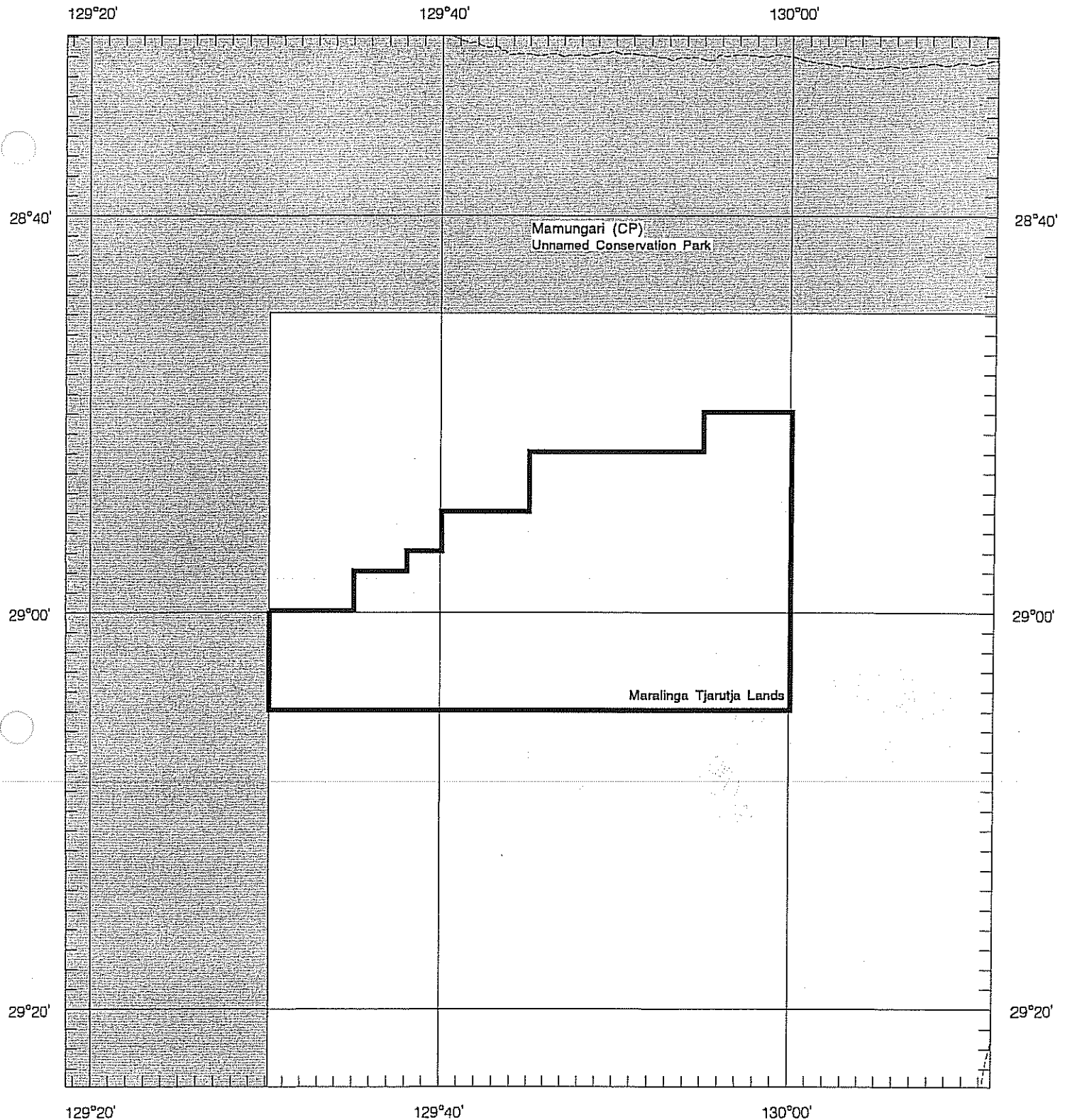
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Government of South Australia
Department for Manufacturing,
Innovation, Trade, Resources and Energy

SCHEDULE A



APPLICANT : **ILUKA (EUCLA BASIN) PTY LTD**

FILE REF : **746/04**

TYPE : **MINERAL ONLY**

AREA : **950 km² (approx.)**

1:250000 MAPSHEETS : **NOORINA WYOLA**

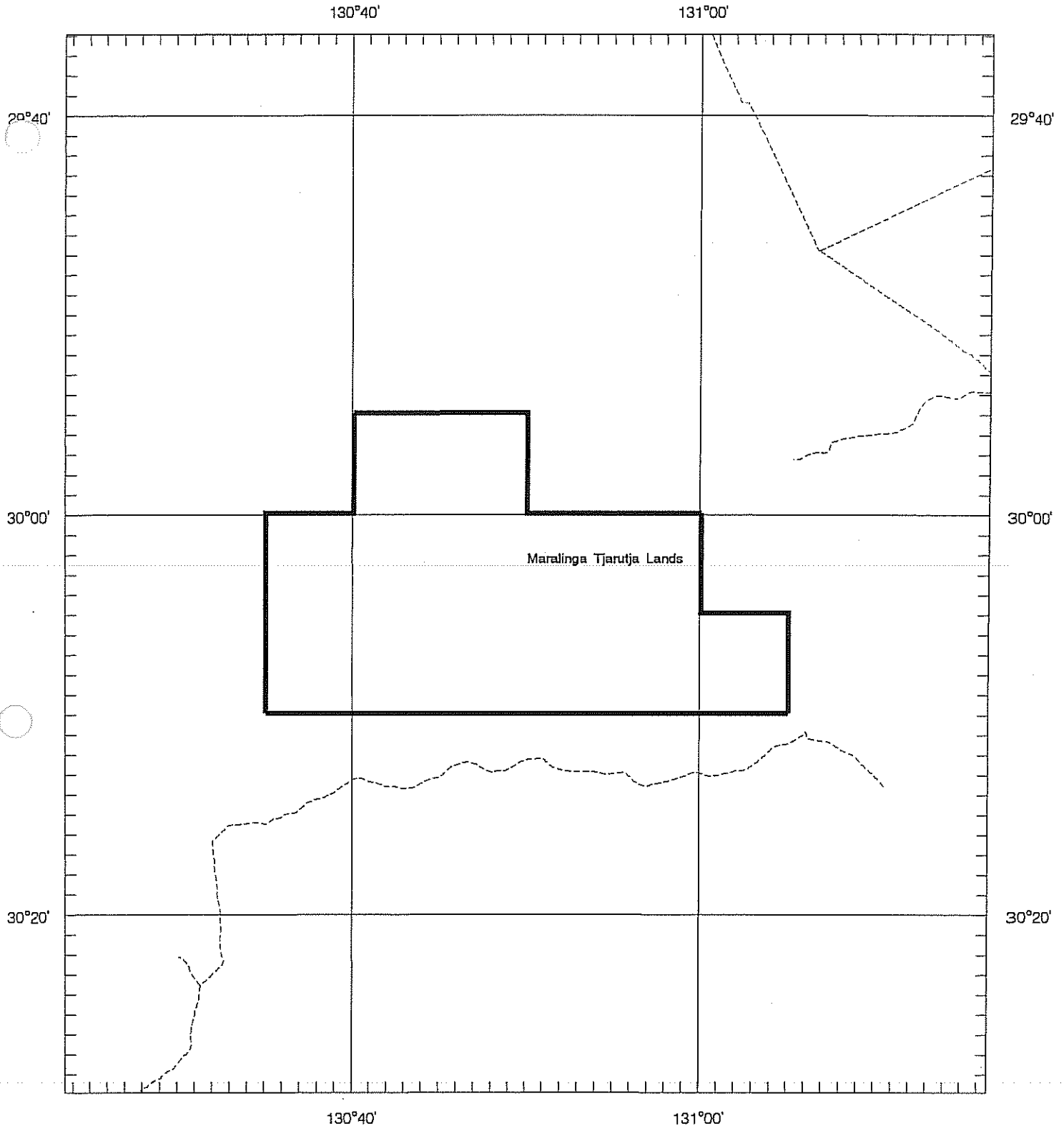
LOCALITY : **EUCLA BASIN A AREA - Approximately 190 km NNW of Cook**

DATE GRANTED : **19-Oct-2009**

DATE EXPIRED : **18-Oct-2010**

EL NO : **4325**

SCHEDULE A



SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66



APPLICANT : ILUKA (EUCLA BASIN) PTY LTD

FILE REF : 767/04

TYPE : MINERAL ONLY

AREA : 966 km² (approx.)

1:250000 MAPSHEETS : MAURICE OOLDEA

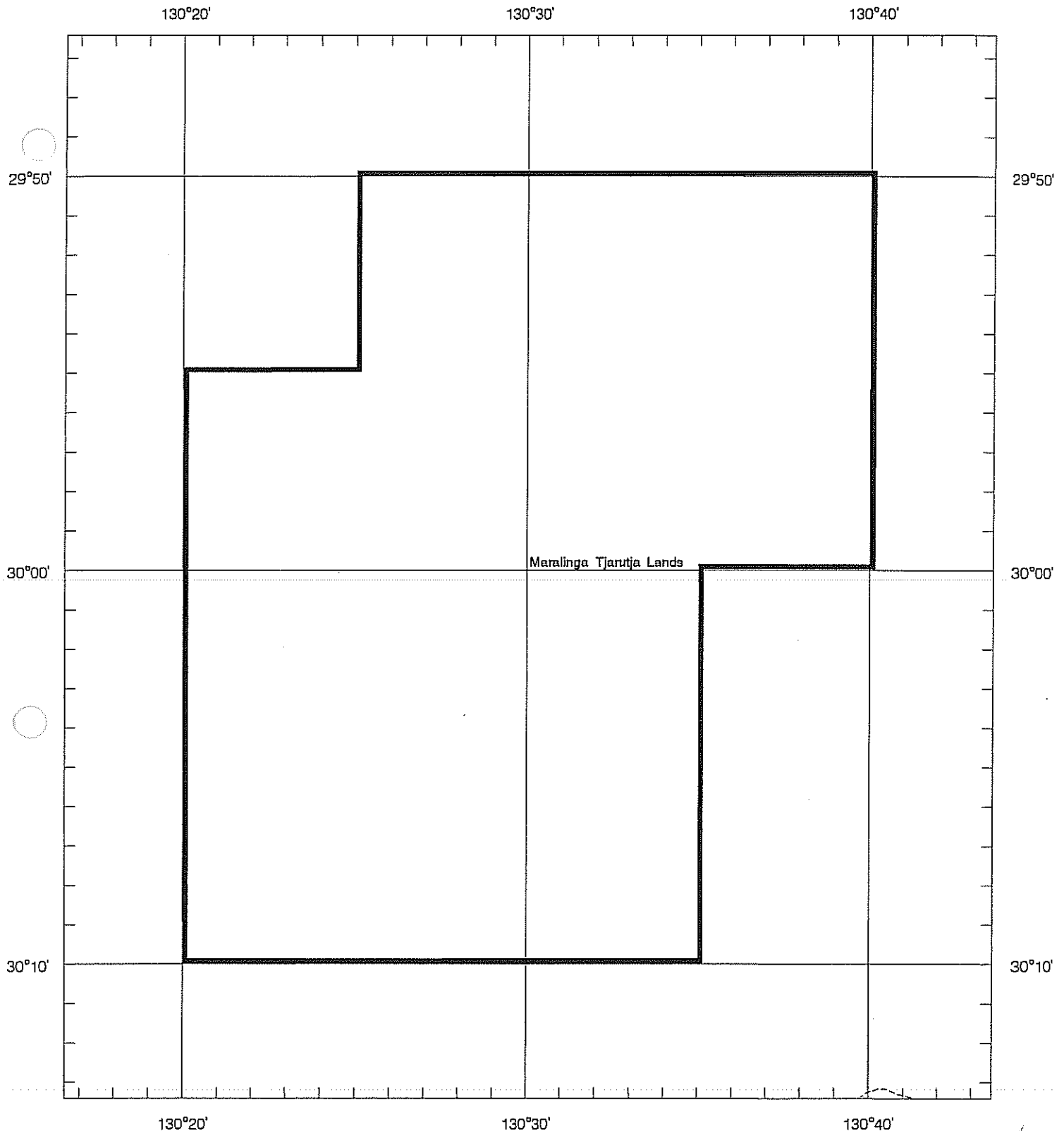
LOCALITY : EUCLA BASIN V AREA - Approximately 60 km northeast of Cook

DATE GRANTED : 19-Oct-2009

DATE EXPIRED : 18-Oct-2010

EL NO : 4346

SCHEDULE A



SCALE 1 : 250 000

KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66



APPLICANT : ILUKA (EUCLA BASIN) PTY LTD

FILE REF : 768/04

TYPE : MINERAL ONLY

AREA : 965 km² (approx.)

1:250000 MAPSHEETS : WYOLA MAURICE COOK OOLDEA

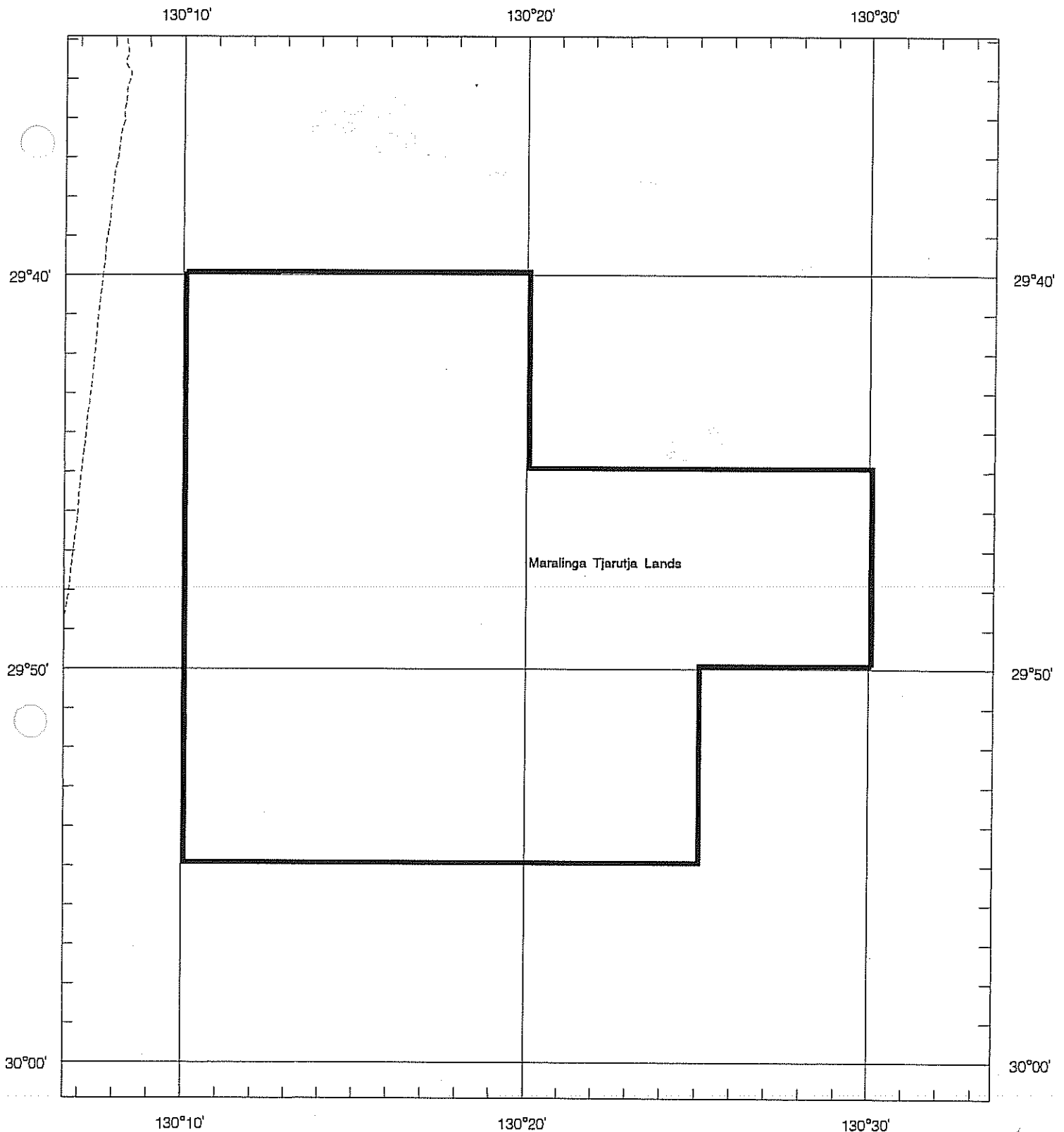
LOCALITY : EUCLA BASIN W AREA - Approximately 70 km NNE of Cook

DATE GRANTED : 19-Oct-2009

DATE EXPIRED : 18-Oct-2010

EL NO : 4347

SCHEDULE A



SCALE 1:250 000
KILOMETRES 5 0 5 10 15 20 25 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66



APPLICANT : ILUKA (EUCLA BASIN) PTY LTD

FILE REF : 769/04

TYPE : MINERAL ONLY

AREA : 670 km² (approx.)

1:250000 MAPSHEETS : WYOLA MAURICE

LOCALITY : EUCLA BASIN X AREA - Approximately 80 km north of Cook

DATE GRANTED : 19-Oct-2009

DATE EXPIRED : 18-Oct-2010

EL NO : 4348



ILUKA

ILUKA RESOURCE LIMITED

Group 4 Combined Report

Partial Relinquishment Report for EL4327, EL4331

Relinquishment Report for EL4325, EL4346, EL4347, EL4348

By
Chris Cockburn

1 October 2011

Our Reference: ILUKA-TR-T17737

Keywords: Air-core Drilling, Barton, Eocene, Exploration, Eucla Basin, Ilmenite, Mineral Sands, Miocene, Ooldea, Rutile, South Australia, Yellabinna, Zircon.

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Table of Contents

Executive Summary	3
1. Introduction	4
1.1. Location	4
1.2. Pre-Relinquishment Tenure.....	6
1.3. Climate	6
1.4. Exploration History	6
1.4.1 BHP/Geopeko.....	6
1.4.2 Aquitaine.....	7
1.4.3 Rio Tinto	7
1.4.4 Diatrema (Lost Sands).....	7
1.4.5 Iluka Resources	8
2. Regional Geology.....	10
3. Heritage Clearance and Native title	11
4. Environment and Rehabilitation	11
5. Exploration Licence 4325.....	12
5.1. Relinquishment.....	12
5.2. Air-Core Drilling	12
6. Exploration Licence 4327	13
6.1. Relinquishment.....	13
6.2. Air-Core Drilling	13
7. Exploration Licence 4331.....	13
7.1. Relinquishment.....	13
7.2. Air-Core Drilling	14
8. Exploration Licence 4348.....	14
8.1. Relinquishment.....	14
8.2. Air-Core Drilling	15
9. Exploration Licence 4347	15
9.1. Relinquishment.....	15
9.2. Air-Core Drilling	16
10. Exploration Licence 4346.....	17
10.1. Relinquishment.....	17
9.2. Air-Core Drilling	17
10. Expenditure	18
10. Conclusions.....	21
11. References.....	22
12. Appendices	22
Appendix 1: Lab Assay Flow Sheet	23
Appendix 2: Logging Codes	24
Appendix 3: Digital Data.....	25

List of Tables

Table 1: Summary of tenements to be relinquished.....	6
Table 2: Significant heavy mineral intercept for EL4325 relinquishment area	12
Table 3: Significant heavy mineral intercepts for EL4327 relinquishment area	13
Table 4: Significant heavy mineral intercepts for EL4331 relinquishment area	14
Table 5: Significant heavy mineral intercepts for EL4348 relinquishment area	15
Table 6: Significant heavy mineral intercepts for EL4347 relinquishment area	16
Table 7: Significant heavy mineral intercepts for EL4346 relinquishment area	17
Table 8 EL4325 expenditures for the life of the tenement.	18
Table 9 EL4327 expenditures for the life of the tenement	18
Table 10 EL4331 expenditures for the life of the tenement.	19
Table 11 EL4346 expenditures for the life of the tenement.	19
Table 12 EL4347 expenditures for the life of the tenement.	20
Table 13 EL4348 expenditures for the life of the tenement.	20
Table 14 Summary of costs on relinquished tenements	21

List of Figures

Figure 3-The regional geology of the Eucla Basin.	10
Figure 4: Air-core drilling on the relinquished EL4325.	12
Figure 5: Air-core drilling on the relinquished areas of EL4327.	13
Figure 6: Air-core drilling on the relinquished areas of EL4331.	14
Figure 7: Air-core drilling on the relinquished areas of EL4348.	15
Figure 8: Air-core drilling on the relinquished areas of EL4347.	16
Figure 9: Air-core drilling on the relinquished areas of EL4347.	17

Executive Summary

The following report details exploration activities conducted, and total relinquishment of Exploration Licences 4325, 4346, 4347, and 4348. Activities conducted and partial relinquishment of tenements 4327 and 4331 are also detailed. All tenements are held by Iluka Resources Limited (Iluka).

Iluka was granted EL's 4325, 4327, 4331, 4346, 4347, and 4348 in October of 2009. These tenements are part of the Amalgamated Expenditure Agreement under the heading of Group 4.

The Group 4 tenements are located on the northern margin of the Eucla Basin.

Total expenditure for the life of the tenements relinquished was **\$953,723.02**

1. Introduction

Under the Amalgamated Expenditure Agreement (AEA) between Iluka Resources Limited (Iluka) and Primary Industries and Resources South Australia (PIRSA) the tenement relinquishment requirements can be applied across the entire group of tenements within the AEA. That is to say, the required percentage of relinquishment can be applied to the total area to the tenement group rather than individual tenements. A 10% relinquishment commitment for Group 4 tenements is required. A total of 4,377 km² of the group 4 tenements is outlined in this report for relinquishment (figure 1). The proposed relinquishment amounts to 16.1% of the total group 4 tenements and satisfies the 10% commitment.

1.1. Location

The location of the Group 4 tenements that are to be relinquished are shown in Figure 1-2 and detailed in Table 1.

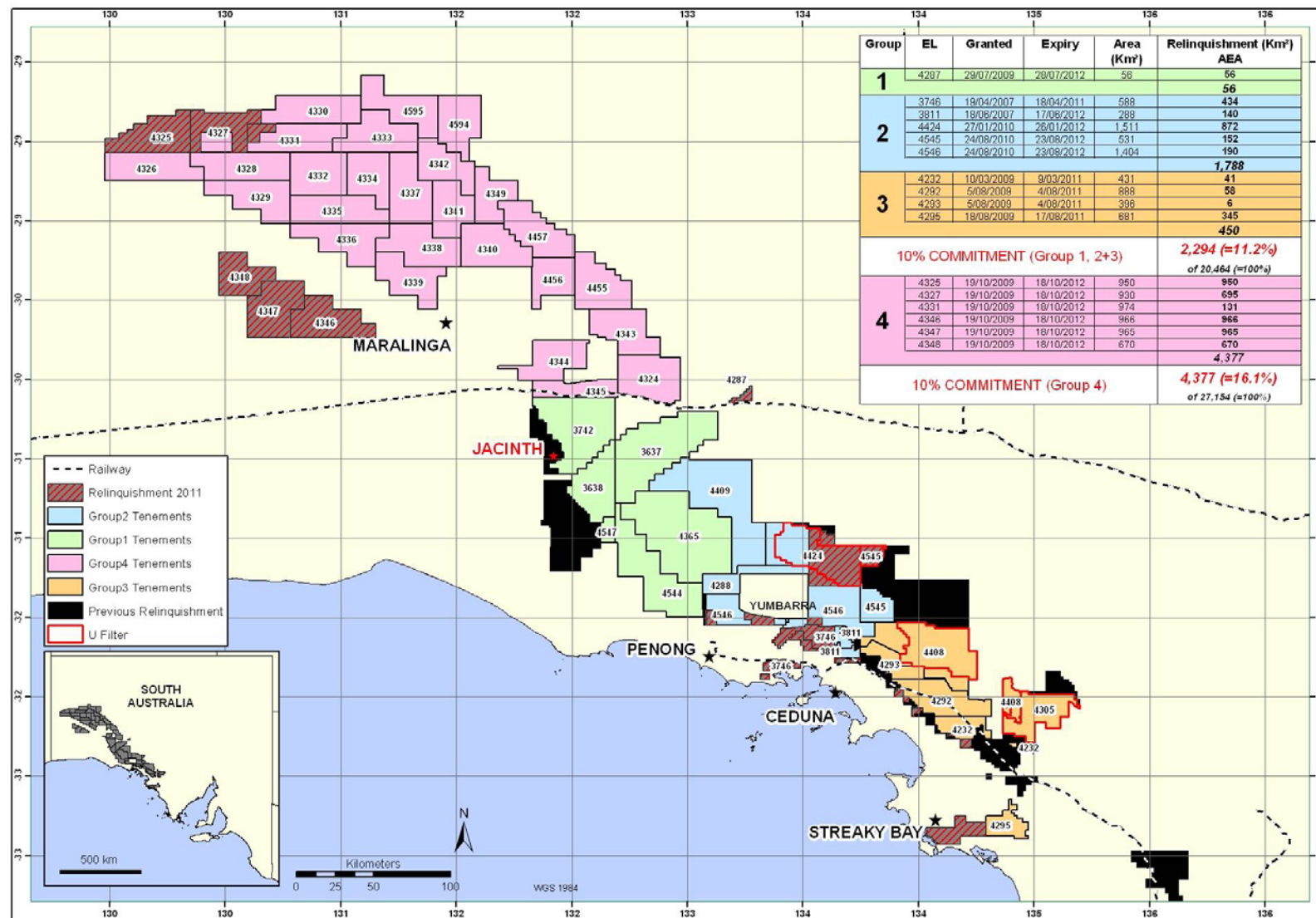


Figure 1- Location of Group 4 tenements (Pink) and Group 4 tenement areas for relinquishment (red stripes).

1.2. Pre-Relinquishment Tenure

Table 2 below outlines the individual tenements and the area (Km²) to be relinquished.

Table 1: Summary of tenements 4325, 4327, 4331, 4346, 4347 and 4348 to be relinquished.

Tenement	Grant Date	Expiry Date	Old Area (Km ²)	Relinquished Area (Km ²)
EL4325	19/10/2009	18/10/2012	950	950
EL4327	19/10/2009	18/10/2012	930	695
EL4331	19/10/2009	18/10/2012	974	131
EL4346	19/10/2009	18/10/2012	966	966
EL4347	19/10/2009	18/10/2012	965	965
EL4348	19/10/2009	18/10/2012	670	670
Total				4,377

1.3. Climate

The project area has a desert climate with short cool winters and long hot summers. Temperatures during summer have a mean of around 35°C. Rainfall is extremely low and variable with an annual mean of 150-200mm. There is no distinct seasonal rainfall pattern, with summer rainfall often due to thunderstorm activity.

1.4 Exploration History

Various companies are currently exploring the marine margin of the Tertiary barrier system which extends over 100 kilometres from the Nullabor Plain into the Barton hinterland. Prime commodities are beach placer minerals (zircon), palaeochannel-hosted roll -front uranium as well as estuarine coal and placer gold in channel sediments (ie South Hilga, Tarcoola).

Since the discovery of Jacinth, Ambrosia and Tripitaka the Ooldea Range is recognized as a lucrative target for economic HM deposits.

Exploration begun with airborne radiometric/magnetic surveys held by Aquitaine during March, 1980. The instrumentation was preset to thorium, uranium and potassium count windows.

1.4.1 BHP/Geopeko

Serious attempts to test the Eucla barrier system for economic HM occurrences were made by BHP in the mid 1980s (and 1990s) and Geopeko in the early 1990s. BHP in particular carried out a massive drilling program, covering large areas from Maralinga as far south as Streaky Bay.

Unfortunate for BHP was their focus on the foreslopes of the main Ooldea sand ridge which consist dominantly of reworked Yarle Fm. sand and underlying offshore clays.

In comparison to BHP Geopeko at least emphasised on the importance of granitic headlands and finally hit some consistent high grades near Immarna. However, Peko could not define economic HM accumulation at Immarna.

In Iluka's Group 4 area BHP drilled 13 traverses (229 holes/6,447m) across the Ooldea sand ridge. The majority of the explored terrain is currently in Diatreme's tenure.

Although BHP covered a large stretch of the ancient Ooldea coastal complex, only two low-grade HM anomalies were intersected (Willy Willy, Maurice, figure 2).

Many holes were drilled to set depth, which possibly led to misinterpretations. On top of the Ooldea sand ridge the marine sequence could not be investigated in its entirety due to increasing thicknesses. Finally, the rear of Ooldea ridge wasn't tested due to a very hard calcrete surface.

Available data: Openfile data BHP (ENV08302)
Openfile data Geopeko (ENV08219+ENV08219pt.1)

1.4.2 Aquitaine

In the early 1980's, Aquitaine Australia Minerals conducted an exploration program to the west of Lake Dey Dey (figure 2). One of their targets was anomalous uranium detected earlier in the playa lakes to the south of the Barton ridge (near Lake Dey Dey).

They abandoned the program due to lack of funds and the impact of the 'Three-Mine-Policy'.

Available data: Openfile data (ENV03816)

1.4.3 Rio Tinto

Rio's Barton tenure in the Eucla Basin has been up for divestment and successfully acquired by Iluka in late July 2009. Groundwork commenced in 2006 and two phases of drilling were completed, two radiometric surveys and geological interpretation from satellite data. Rio drilled 110 holes for 4875m since 2006.

Most of the work focussed on the Sherrin prospect along the Paling Range. They drilled six lines across the prospect at ~4km spacing and ~1km spacing along the lines. The zone of HM was delineated with dimensions of 28km long, 6km wide, and 4.5m to 12m 0thick. The ore potential is ~50mt of HM at 1.7%.

Available data: Data available late July/early August.
To date see: Z:\Exploration\Evaluation\Rio.

1.4.4 Diatreme (Lost Sands)

Diatreme's three tenements (EL3614, 3615 and 3616) along the Ooldea range create a prominent gap in Iluka's Group 4 tenure. Two of those tenements harbour the Maurice and Willy Willy prospects, earlier discovered by BHP.

To date Diatreme's focus lies in the development of the Cyclone deposit in WA. However, it is questionable if further exploration will increase the prospectivity of the three tenements.

Diatreme has drilled at least 6 traverses in EL3615 and 3616 without major intercepts. It seems that: a. HM concentrations are generally low due to a lack of

basement traps and bays. Diatreme's tenure covers large areas of the Ooldea foreslopes (offshore).

1.4.5 Iluka Resources

Grant of the 32 Group 4 tenements occurred on October 19th 2009 (EL 4594+4595 on November 4th 2010/Table 1).

The Group 4 tenure covers an area of approximately 27,000 km² (of 48,000 km²). The exploration licenses are north of the Indian-Pacific railway line in the Maralinga-Tjarutja (MT) Native Title Claim. The Woomera Prohibited area (WPA) covers some of the eastern tenements and thus access is restricted and controlled by the Australian Defence Department. Other restricted zones are the so-called Maralinga (Area 400) exclusion zone, covering the former nuclear testing areas. This part of the MT-Lands excludes all work activities (Figure 2).

The entire Group 4 area was relatively underexplored. Existing infrastructure is sparse and not developed. The only settlements are Oak Valley and the Maralinga station. Maralinga has been offered to Iluka as a base for the central and eastern parts of Group 4. All activities in the western areas were based at camp 'Siberia'. All major target zones of Group 4 have been subjected to first pass regional exploration drilling. The most prospective ground is situated near Thar and along the Barton Range in the east of the tenure (Group 4 East).

Exploration drilling in Group 4 commenced on November 20th 2009. To date a total of **1114 holes for 51,019 metres** has been drilled across the Group 4 tenure.

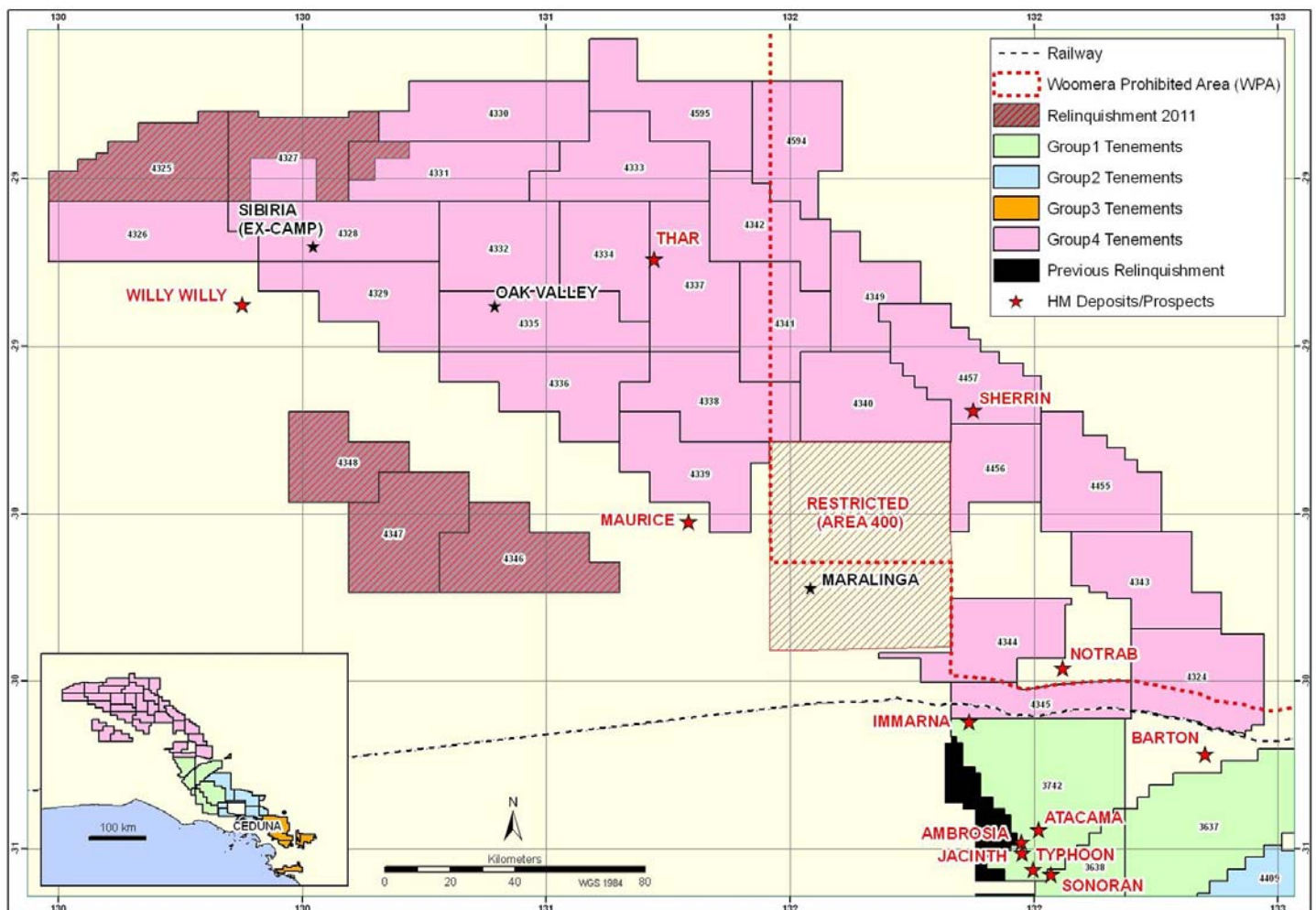


Figure 2- Location of the group 4 tenements (pink) and areas for relinquishment (red stripes).

2. Regional Geology

The Eucla basin extends approximately 2,000km from Western Australia to South Australia. The eastern margin of the basin is dominated by the Ooldea, Paling and Barton Ranges (Figure 3). The Eucla Basin contains sequences up to 300m thick of Tertiary marine, coastal and palaeochannel sediments.

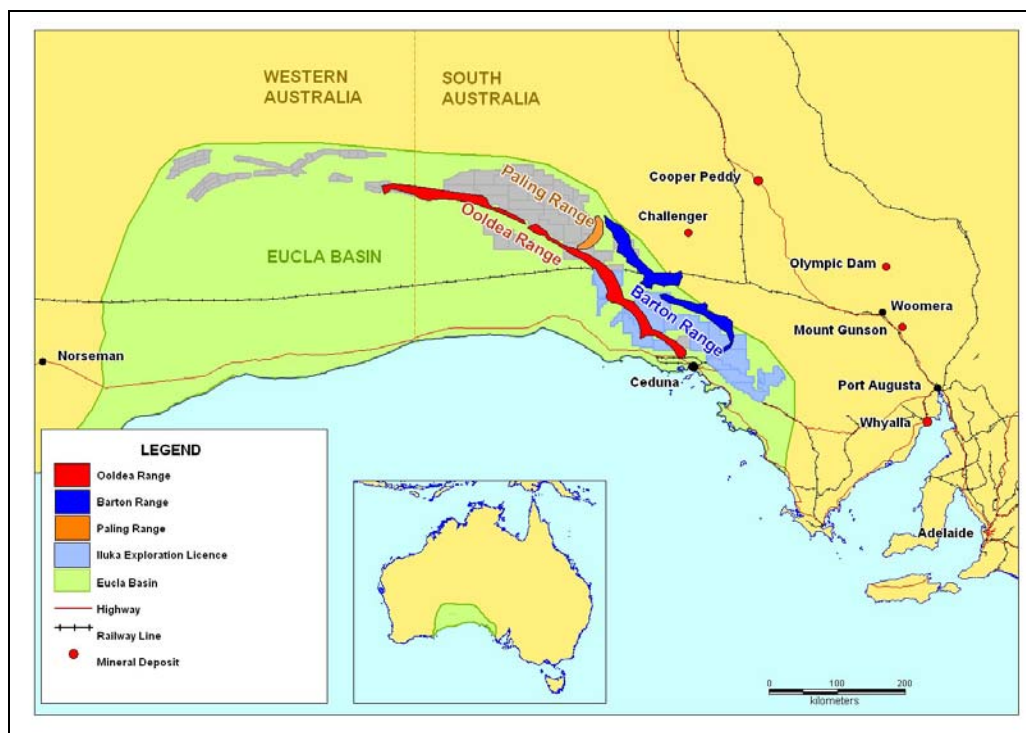


Figure 3-The regional geology of the Eucla Basin.

The eastern Eucla Basin is underlain by Archaean to Middle Proterozoic rocks of the Gawler Craton that include granite, gneiss, and mafic/ultramafic intrusives of the Gawler Range Volcanics. These Gawler Craton rocks, along with the Musgrave Block to the north, are currently held to be the main source of zircon rich mineral sands for this region.

There have been five marine transgressions into the Eucla Basin during the last 50 million years. Currently, four sets of palaeoshorelines are recognised ranging in age from middle Eocene to Pliocene. These shoreline sequences have potential to host heavy mineral deposits. These are summarised below:

The oldest is the poorly defined Wilson Bluff Shoreline, probably dominated by the Hampton sandstone and situated in the central portion of the basin.

The Middle Eocene Tortachilla Transgression contains beach deposits within the Lower Pidinga and Lower Ooldea Formations. The Ooldea Range Shoreline was formed during this time and hosts the Jacinth and Ambrosia Deposits.

The Paling and Barton Ranges are made up of Late Eocene beach or barrier facies sands.

A younger set of Neogene shorelines exist in the south eastern part of the basin formed at a high angle to the Eocene shorelines.

The Ooldea, Barton and Paling Ranges formed initially as spits and barrier islands during the period of maximum transgression at the end of the Eocene. These dunes

contain a core of marine Eocene Hampton Sandstone, which is overlain by Eocene Ooldea Sandstone (possibly of aeolian origin). To the southwest of these major landform features lies the Nullarbor Limestone which formed in the Pliocene over much of the central basin. The Nullarbor limestone has left a fringe of prospective marine sands around the rim.

Erosion from the last regressive phase has resulted in vast quantities of quartz sand blown inland. This Quaternary sand has blanketed the land surface and covers the area with a series of longitudinal dunes, known geographically as the Great Victoria Desert.

3. Heritage Clearance and Native title

Iluka has a mineral exploration agreement with the Native peoples of Maralinga Tjarutja. Details of this agreement can be obtained upon request. (Z:\Adelaide_Geology_Directory\Indigenous_issues\MaralingaTjarutja\Agreement).

The current exploration clearances have been done on a tenement wide basis for reconnaissance drilling at a minimum traverse spacing of 1km and a hole spacing of 50m. These clearances have identified a set of rules and exclusion areas for Iluka to follow. The rules typically include a 200m buffer (exclusion zone) around all outcrops, soaks, salt lakes and clay pans.

4. Environment and Rehabilitation

Full details of environmental and rehabilitation activities are reported separately in Iluka Exploration Geology Group, 2009, Iluka Resources Limited, Eucla Basin, Annual Environmental Management Report August 2009 – July 2010, Unpublished Report TR - T16893.

5. Exploration Licence 4325

5.1. Relinquishment

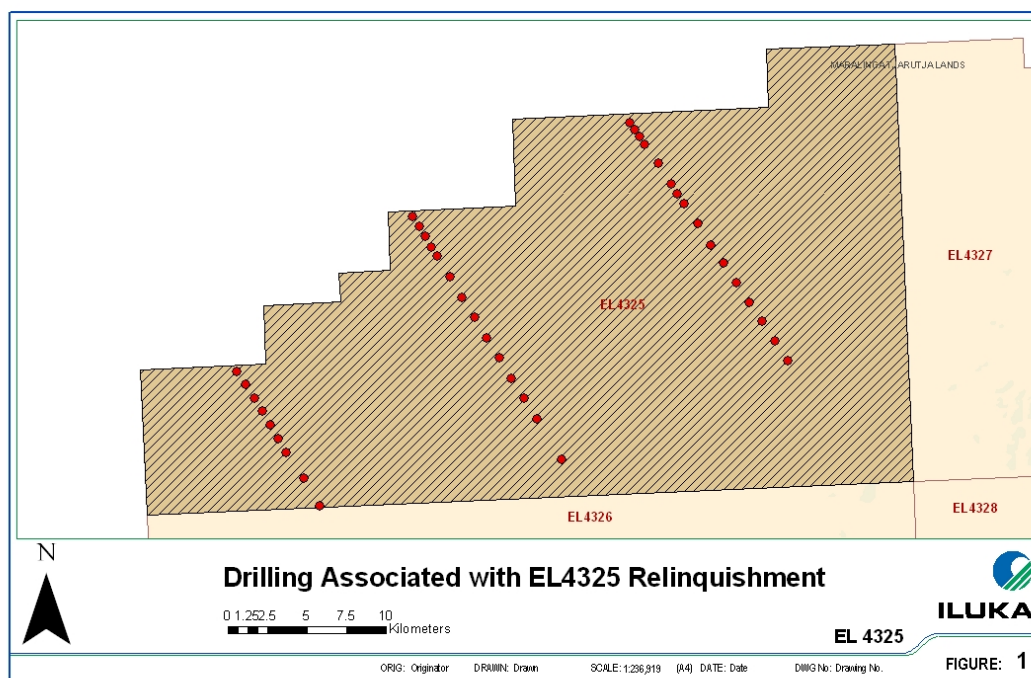


Figure 4: Air-core drilling on the relinquished EL4325.

5.2. Air-Core Drilling

The relinquishment areas of EL4325 where part of Iluka's regional exploration for heavy mineral sands. There was 1491.5m of air-core drilling completed in 39 drill holes. From this drilling there were only 96 samples submitted for heavy mineral assay which is quite low. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 2*.

Table 2: Significant heavy mineral intercept for EL4325 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0546	AD168020	33.0	34.5	1.54
MAR0568	AD168581	39.0	40.5	1.95
MAR0602	AD169220	31.5	33.0	1.28

6. Exploration Licence 4327

6.1. Relinquishment

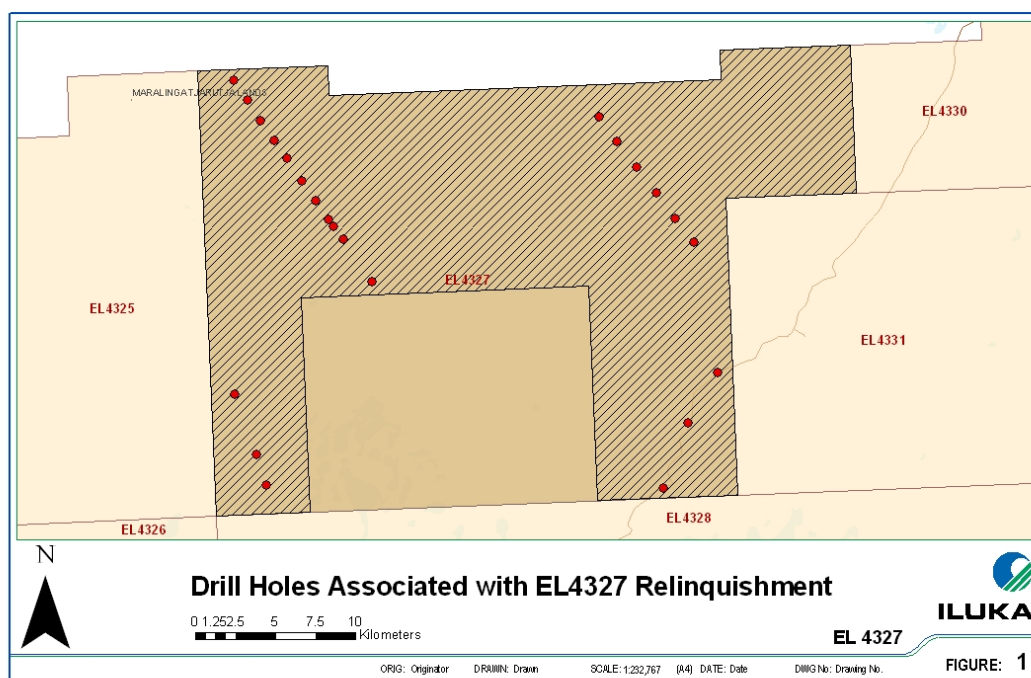


Figure 5: Air-core drilling on the relinquished areas of EL4327.

6.2. Air-Core Drilling

The relinquishment areas of EL4327 were part of Iluka's regional exploration for heavy mineral sands. There was 789 m of air-core drilling completed in 23 drill holes. From this drilling there were only 12 samples submitted for heavy mineral assay which is very low. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 3*.

Table 3: Significant heavy mineral intercepts for EL4327 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0543	AD167944	22.5	24.0	3.65

7. Exploration Licence 4331

7.1. Relinquishment

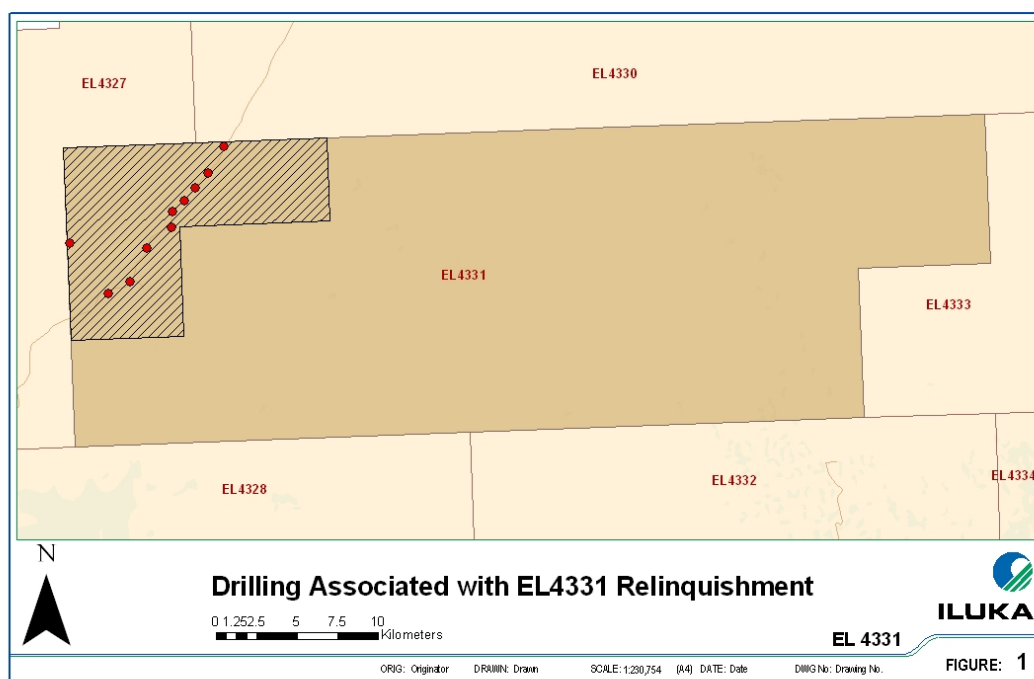


Figure 6: Air-core drilling on the relinquished areas of EL4331.

7.2. Air-Core Drilling

The relinquishment areas of EL4331 were part of Iluka's regional exploration for heavy mineral sands. There was 447m of air-core drilling completed in 10 drill holes. From this drilling there were 21 samples submitted for heavy mineral assay which is quite low. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 4*.

Table 4: Significant heavy mineral intercepts for EL4331 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0498	AD167036	0.0	1.5	1.0

8. Exploration Licence 4348

8.1. Relinquishment

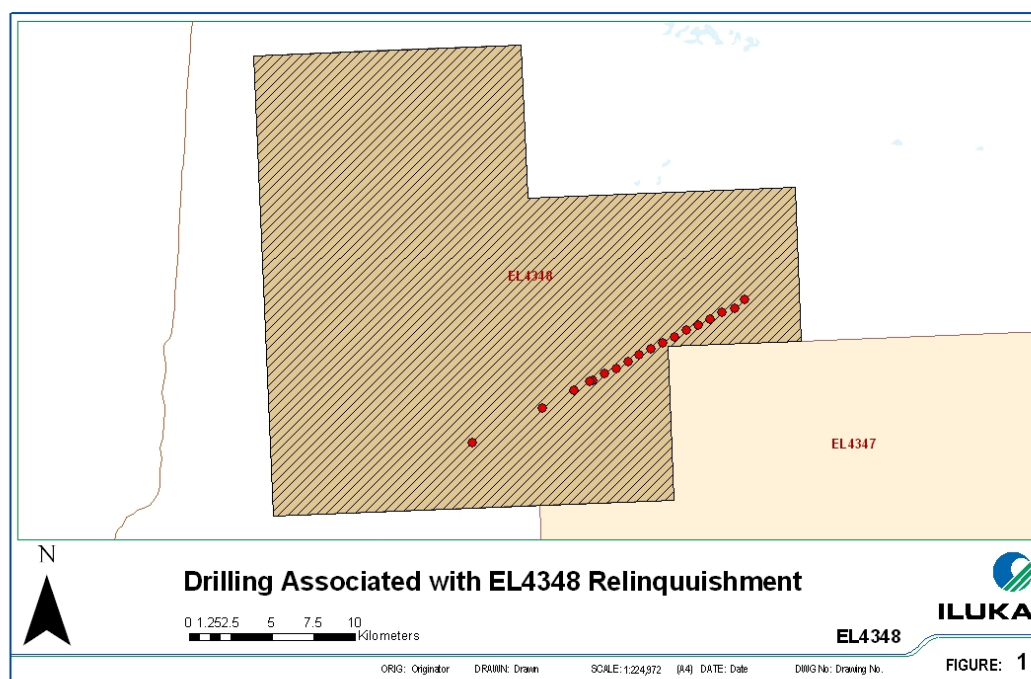


Figure 7: Air-core drilling on the relinquished areas of EL4348.

8.2. Air-Core Drilling

The relinquishment areas of EL4348 where part of Iluka's regional exploration for heavy mineral sands. There was 613m of air-core drilling completed in 18 drill holes. From this drilling there were 10 samples submitted for heavy mineral assay which is quite low. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 5*.

Table 5: Significant heavy mineral intercepts for EL4348 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0627	AD166361	21.0	22.5	1.0
MAR0627	AD166362	22.5	24.0	1.05

9. Exploration Licence 4347

9.1. Relinquishment

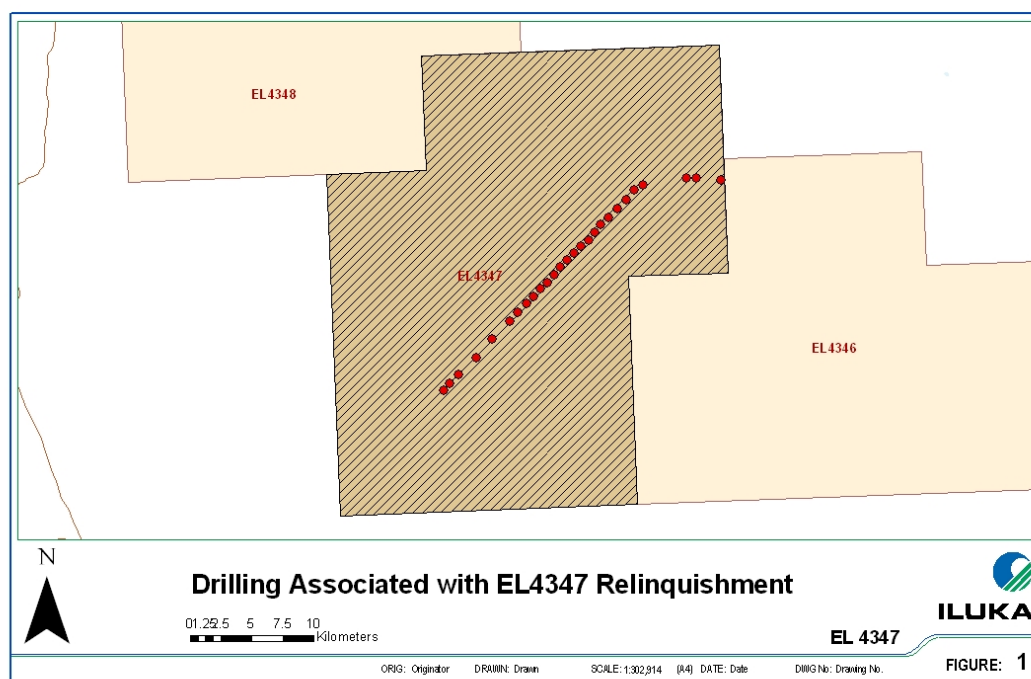


Figure 8: Air-core drilling on the relinquished areas of EL4347.

9.2. Air-Core Drilling

The relinquishment areas of EL4347 were part of Iluka's regional exploration for heavy mineral sands. There was 1201.5m of air-core drilling completed in 27 drill holes. From this drilling there were 51 samples submitted for heavy mineral assay which is quite low. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 6*.

Table 6: Significant heavy mineral intercepts for EL4347 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0640		21.0	22.5	2.48
MAR0640		22.5	24.0	2.40
MAR0640		24.0	25.5	3.25

10. Exploration Licence 4346

10.1. Relinquishment

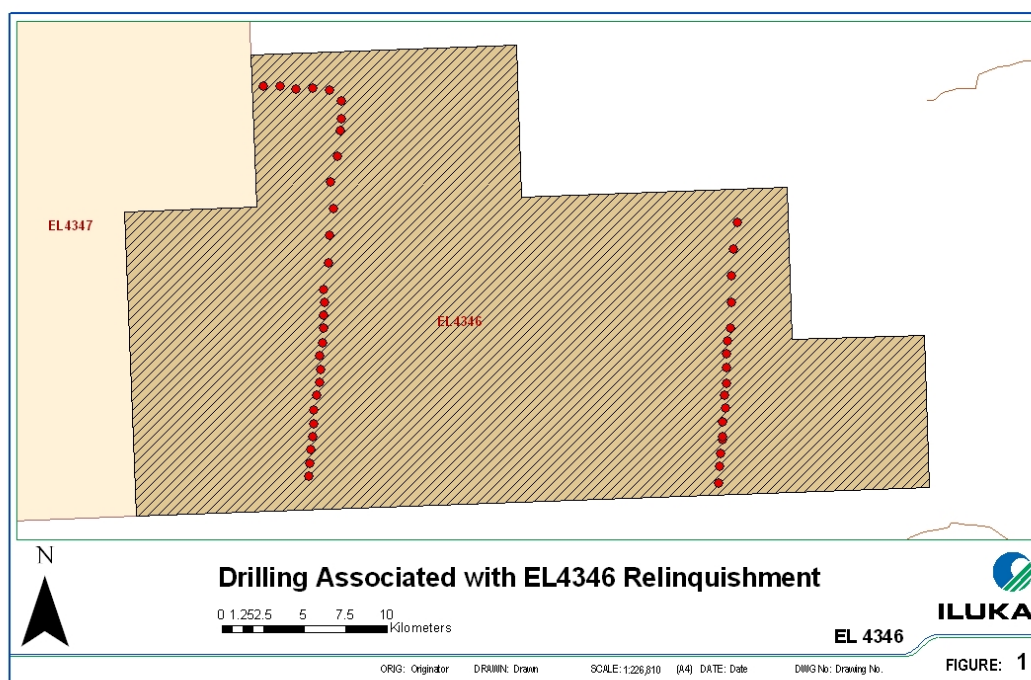


Figure 9: Air-core drilling on the relinquished areas of EL4347.

9.2. Air-Core Drilling

The relinquishment areas of EL4346 where part of Iluka's regional exploration for heavy mineral sands. There was 2523 m of air-core drilling completed in 45 drill holes. From this drilling there were 163 samples submitted for heavy mineral assay. Significant results, those with heavy mineral content in the received sample greater than 1%, are shown in *Table 7*.

Table 7: Significant heavy mineral intercepts for EL4346 relinquishment area

Hole ID	Sample ID	From (m)	To (m)	%HM
MAR0678	AD190771	31.5	33.0	1.04
MAR0678	AD190772	33.0	34.5	1.05
MAR0688	AD191178	36.0	37.5	1.11
MAR0688	AD191185	46.5	48.0	1.42

10. Expenditure

The expenditure for the life of the tenements is broken down (Table 8-13) into a number of cost elements on a per tenement basis. Table 14 sums the total expenditure on the tenements.

Table 8 EL4325 expenditures for the life of the tenement.

Item	Cost
400340 General Stores	5,752.43
410000 Diesel	Omit (neg)
420180 Travel & Accom-Dom	3,063.42
420320 Domestic Fuels	9,110.18
420380 Field Rations & Food	724.56
440000 Equip/Vehicle Hire	38,012.92
440020 Freight Costs	61.90
440060 External Services	3,103.92
440080 Contractor	15,776.82
440160 Contractor Drilling	37,216.12
450260 Tenement Rent	7,897.00
450270 Indigenous Costs	15,545.15
450300 Sundry Expenses	83.45
659010 Laboratory HM Assay	2,941.00
670100 Tenement Geological	15,052.23
670150 Tenement Field Suppl	334.40
670160 Tenement Travel	Omit (neg)
Total	154,675.50

Table 9 EL4327 expenditures for the life of the tenement

Item	Cost
400340 General Stores	8,309.19
420180 Travel & Accom-Dom	Omit (neg)
420240 Entertainment Gen	236.47
420320 Domestic Fuels	12,848.44
420380 Field Rations & Food	2,591.51
440000 Equip/Vehicle Hire	24,460.00
440020 Freight Costs	293.48
440060 External Services	479.68
440080 Contractor	6,115.07
440160 Contractor Drilling	16,601.50
450260 Tenement Rent	7,733.00
450270 Indigenous Costs	17,612.39
450300 Sundry Expenses	336.71
659010 Laboratory HM Assay	294.00
670100 Tenement Geological	14,241.45
670150 Tenement Field	4,163.98

	Suppl	
670160	Tenement Travel	0.08
	Total	116,316.95

Table 10 EL4331 expenditures for the life of the tenement.

Item	Cost
400340 General Stores	9,107.78
420180 Travel & Accom-Dom	
420240 Entertainment Gen	61.94
420320 Domestic Fuels	945.22
420380 Field Rations & Food	2,029.12
440000 Equip/Vehicle Hire	29,042.00
440020 Freight Costs	1,148.51
440060 External Services	909.68
440080 Contractor	8,509.00
440120 Non DPO	
Maintenance	408.05
440160 Contractor Drilling	25,860.58
450260 Tenement Rent	8,093.80
450270 Indigenous Costs	14,291.45
450300 Sundry Expenses	301.59
659010 Laboratory HM	
Assay	674.00
670100 Tenement Geological	17,934.61
670150 Tenement Field	
Suppl	6,679.52
670160 Tenement Travel	211.94
	126,208.79
Total	

Table 11 EL4346 expenditures for the life of the tenement.

Item	Cost
400340 General Stores	214.35
410000 Diesel	Omit (neg)
420180 Travel & Accom-Dom	1,020.67
420240 Entertainment Gen	22.14
420320 Domestic Fuels	483.84
420380 Field Rations & Food	1,137.42
440000 Equip/Vehicle Hire	44,536.17
440020 Freight Costs	704.99
440060 External Services	46,821.42
440080 Contractor	4,887.33
440160 Contractor Drilling	6,859.66
450260 Tenement Rent	8,028.20
450270 Indigenous Costs	16,477.50
450300 Sundry Expenses	25.36
659010 Laboratory HM	
Assay	1,495.00

670100 Tenement Geological	42,300.96
670150 Tenement Field	
Suppl	66,984.81
670160 Tenement Travel	758.20
	242758
Total	

Table 12 EL4347 expenditures for the life of the tenement.

Item	Cost
400340 General Stores	209.36
420180 Travel & Accom-Dom	1,489.60
420240 Entertainment Gen	33.57
420320 Domestic Fuels	1,346.42
420380 Field Rations & Food	825.69
440000 Equip/Vehicle Hire	69,196.00
440020 Freight Costs	369.01
440060 External Services	6,156.92
440080 Contractor	10,377.38
440120 Non DPO	
Maintenance	201.45
440160 Contractor Drilling	27,174.78
450260 Tenement Rent	8,020.00
450270 Indigenous Costs	14,206.90
450300 Sundry Expenses	71.76
670100 Tenement Geological	19,878.95
670150 Tenement Field	
Suppl	460.10
670160 Tenement Travel	488.14
Total	160,506.03

Table 13 EL4348 expenditures for the life of the tenement.

Item	Cost
420180 Travel & Accom-Dom	Omit (neg)
420240 Entertainment Gen	35.20
420320 Domestic Fuels	636.09
420380 Field Rations & Food	1,264.03
440000 Equip/Vehicle Hire	28,246.63
440020 Freight Costs	147.31
440060 External Services	11,323.54
440080 Contractor	2,580.00
440120 Non DPO	
Maintenance	356.75
440160 Contractor Drilling	14,300.04
450260 Tenement Rent	5,601.00
450270 Indigenous Costs	6,813.70
450300 Sundry Expenses	1,281.85
659010 Laboratory HM	
Assay	4,165.00

670100 Tenement Geological	35,100.56
670150 Tenement Field	
Suppl	40,878.73
670160 Tenement Travel	582.94
Total	153,257.73

Table 14 Summary of costs on relinquished tenements

Tenement	Cost
EL4325	154,675.50
EL4327	116,316.95
EL4331	126,208.79
EL4346	242,758.02
EL4347	160,506.03
EL4348	153,257.73
Total	953,723.02

Please note that the expenditure listed above is more than the sum of the previously submitted 6 monthlies because the last reported 6 monthly date was in April of 2011.

10. Conclusions

Iluka is required to relinquish 10% of the Group 4 tenure in as of July 2011. The relinquished areas outlined in this report comprise ~16.1% (4,377km² of the total 27,154km² in the Group 4 area.

Recent drilling results show clearly that most of the central and north western part of Group 4, as well as the Galahad (EL4346/47/48) are devoid of marine host sands or severely reworked. The unexplored Ooldea Range of Group 4 will be retained although other explorers in the area have not intersected any high-grade HM deposits.

11. References

Iluka Exploration Geology Group, 2011, Iluka Resources Limited, Eucla Basin Internal Memo, Tom Brosch, Unpublished Report.

Iluka Exploration Geology Group, 2011, Iluka Resources Limited, Group Four Annual Technical Report Jan 2010- Dec 2010. David Pugh, Unpublished Report TR-T17599.

12. Appendices

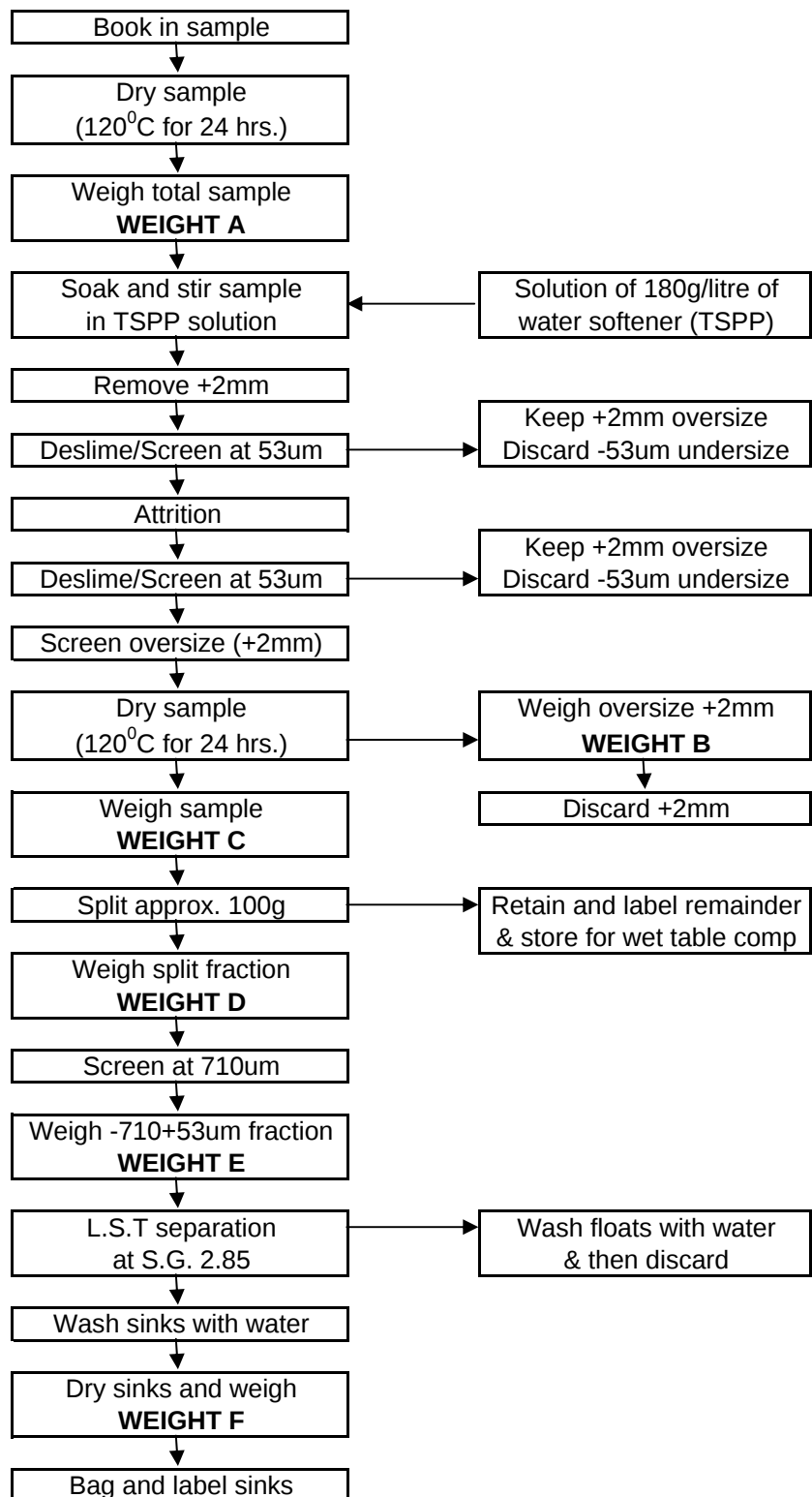
Appendix 1: Lab Assay Flow Sheet

Appendix 2: Logging Codes

Appendix 3: Digital Data

Appendix 1: Lab Assay Flow Sheet

DRILL SAMPLE FLOWSHEET



Appendix 2: Logging Codes

Colour

BK	BLACK	DRY	DARK RED-YELLOW
BL	BLUE	DWH	DARK WHITE
BR	BROWN	DWC	DARK WHITE-CREAM
BB	BROWN-BLACK	DYE	DARK YELLOW
BC	BROWN-CREAM	DYB	DARK YELLOW-BROWN
BO	BROWN-ORANGE	DYG	DARK YELLOW-GREEN
BW	BROWN-WHITE	DYW	DARK YELLOW-WHITE
BY	BROWN-YELLOW	GN	GREEN
BU	BUFF	NB	GREEN-BROWN
CR	CREAM	NY	GREEN-YELLOW
CO	CREAM-ORANGE	GR	GREY
RC	CREAM-RED	GK	GREY-BLACK
DBK	DARK BLACK	GB	GREY-BROWN
DBL	DARK BLUE	GC	GREY-CREAM
DBR	DARK BROWN	GG	GREY-GREEN
DBB	DARK BROWN-BLACK	GO	GREY-ORANGE
DBC	DARK BROWN-CREAM	GP	GREY-PINK
DBO	DARK BROWN-ORANGE	GD	GREY-RED
DBW	DARK BROWN-WHITE	GW	GREY-WHITE
DBY	DARK BROWN-YELLOW	GY	GREY-YELLOW
DBU	DARK BUFF	KH	KHARKI
DCR	DARK CREAM	LBK	LIGHT BLACK
DCO	DARK CREAM-ORANGE	LBL	LIGHT BLUE
DRC	DARK CREAM-RED	LBR	LIGHT BROWN
DGN	DARK GREEN	LBB	LIGHT BROWN-BLACK
DNB	DARK GREEN-BROWN	LBC	LIGHT BROWN-CREAM
DNY	DARK GREEN-YELLOW	LBO	LIGHT BROWN-ORANGE
DGR	DARK GREY	LBW	LIGHT BROWN-WHITE
DGK	DARK GREY-BLACK	LBY	LIGHT BROWN-YELLOW
DGB	DARK GREY-BROWN	LBU	LIGHT BUFF
DGC	DARK GREY-CREAM	LCR	LIGHT CREAM
DGG	DARK GREY-GREEN	LCO	LIGHT CREAM-ORANGE
DGO	DARK GREY-ORANGE	LRC	LIGHT CREAM-RED
DGP	DARK GREY-PINK	LGN	LIGHT GREEN
DGD	DARK GREY-RED	LNB	LIGHT GREEN-BROWN
DGW	DARK GREY-WHITE	LNK	LIGHT GREEN-YELLOW
DGY	DARK GREY-YELLOW	LGR	LIGHT GREY
DMU	DARK MUSTARD	LGK	LIGHT GREY-BLACK
DOR	DARK ORANGE	LGB	LIGHT GREY-BROWN
DOB	DARK ORANGE-BROWN	LGC	LIGHT GREY-CREAM
DOW	DARK ORANGE-WHITE	LGG	LIGHT GREY-GREEN
DOY	DARK ORANGE-YELLOW	LGO	LIGHT GREY-ORANGE
DPI	DARK PINK	LGP	LIGHT GREY-PINK
DPB	DARK PINK BROWN	LGD	LIGHT GREY-RED
DPC	DARK PINK-CREAM	LGW	LIGHT GREY-WHITE
DPO	DARK PINK-ORANGE	LGY	LIGHT GREY-YELLOW
DPW	DARK PINK-WHITE	LMU	LIGHT MUSTARD
DPU	DARK PURPLE	LOR	LIGHT ORANGE
DRE	DARK RED	LOB	LIGHT ORANGE-BROWN
DRK	DARK RED-BLACK	LOW	LIGHT ORANGE-WHITE
DRB	DARK RED-BROWN	LOY	LIGHT ORANGE-YELLOW
DRO	DARK RED-ORANGE	LPI	LIGHT PINK
DRP	DARK RED-PINK	LPB	LIGHT PINK BROWN
DRW	DARK RED-WHITE	LPC	LIGHT PINK-CREAM

Colour (Cont...)

LPO	LIGHT PINK-ORANGE
LPW	LIGHT PINK-WHITE
LPU	LIGHT PURPLE
LRE	LIGHT RED
LRK	LIGHT RED-BLACK
LRB	LIGHT RED-BROWN
LRO	LIGHT RED-ORANGE
LRP	LIGHT RED-PINK
LRW	LIGHT RED-WHITE
LRY	LIGHT RED-YELLOW
LWH	LIGHT WHITE
LWC	LIGHT WHITE-CREAM
LYE	LIGHT YELLOW
LYB	LIGHT YELLOW-BROWN
LYG	LIGHT YELLOW-GREEN
LYW	LIGHT YELLOW-WHITE
MU	MUSTARD
OR	ORANGE
OB	ORANGE-BROWN
OW	ORANGE-WHITE
OY	ORANGE-YELLOW
PI	PINK
PB	PINK BROWN
PC	PINK-CREAM
PO	PINK-ORANGE
PW	PINK-WHITE
PU	PURPLE
RE	RED
RK	RED-BLACK
RB	RED-BROWN
RO	RED-ORANGE
RP	RED-PINK
RW	RED-WHITE
RY	RED-YELLOW
WH	WHITE
WC	WHITE-CREAM
YE	YELLOW
YB	YELLOW-BROWN
YG	YELLOW-GREEN
YO	YELLOW-ORANGE
YR	YELLOW-RED
YW	YELLOW-WHITE

Coarsest Grain Size

CL	CLAY
GR	GRIT
PB	PEBBLE
SI	SILT
VF	VERY FINE
F	FINE
M	MEDIUM
C	COARSE
VC	VERY COARSE

Lithology

BA	BASALT
CA	CALCRETE
CG	CONGLOMERATE
CL	CLAY
CO	COAL
CS	CLAYEY SAND
CT	CLAY STONE
DO	DOLOMITE
GA	GRANITE
GB	GABBRO
GN	GNEISS
GR	GRAVEL
GY	GYPSTUM
HM	HEAVEY MINERAL
IC	INDURATED CLAY
IR	IRONSTONE
LA	LATERITE
LC	LOST CORE
LI	LIMESTONE
LIG	LIGNITE
LS	LOMESAND
MU	MUDSTONE
OV	OVER SIZE
PE	PEBBLES
PY	PYRITE
QU	QUARTZ
RK	ROCK UNKNOWN
SA	SAND
SAP	SAPROLITE
SC	SANDY CLAY
SD	SILTY SAND
SDY	SILTY-SANDY-CLAY
SE	SILCRETE
SH	SHALE
SI	SILT
SIS	SILTSTONE
SL	SLIME
SLT	SLATE
SO	SOIL
SS	SANDSTONE
ST	SCHIST
SY	SILTY-CLAY
SYS	SILTY-CLAY-SAND
YS	CLAY-SILT

Heavy Mineral Grain Size

F	FINE
VF	VERY FINE
FM	FINE-MEDIUM
M	MEDIUM
MC	MEDIUM-COARSE
C	COARSE
VC	VERY COARSE

Qualifier

AT	ABUNDANT BLACK TRASH
CB	CARBONACEOUS
CT	COMMON BLACK TRASH
FE	FERRUGINOUS
LA	LATERITIC
MI	MICACEOUS
MO	MOTTLED
MT	MINOR BLACK TRASH
OX	OXIDISED
PY	PYRITIC
WE	WEATHERED
SI	SILICEOUS
CC	CALCAREOUS
CE	CARBONATE
GY	GYPSUM
OR	ORGANIC
ALF	ABUNDANT LATERITIC FINES
CLF	COMMON LATERITIC FINES
MLF	MINOR LATERITIC FINES
BM	BASEMENT
TL	TAILINGS
SL	SLIMES
CV	CAVEN

Formation

TFS	TOP OF FORESHORE
TLS	TOP OF LOWERSHORE
TSZ	TOP OF SURFZONE
TLI	TOP OF LIMESTONE
DU	DUNAL
WT	TOP OF WATER TABLE

To Be Assayed

Y	YES - HM ASSAY
N	NO - HM ASSAY
M	MULTI ELEMENT
YM	HM & MULTI ELEMENT ASSAY

Link

TO	TO
AN	AND (30-60%)
WI	WITH (10-30%)
WM	WITH MINOR (<10%)

Sample quality

G	GOOD
M	MODERATE
P	POOR

Induration Type

CA	CALCRETE
CC	CALCAREOUS INDURATION
CG	CONGLOMERATE
CO	COAL
FE	FERRUGINOUS INDURATION
GA	GRANITE
GY	GYPSUM
IC	INDURATED CLAY
IR	IRONSTONE
LA	LATERITE
LA	LATERITIC SILTSTONE
LA	LATERITIC SANDSTONE
LI	LIMESTONE
MU	MUDSTONE
PY	PYRITE
RK	ROCK UNKNOWN
SE	SILCRETE
SI	SILICEOUS INDURATION
SI	SILTSTONE
SS	SANDSTONE

Washability

IM	IMPOSSIBLE
M	MODERATE
MD	MODERATELY DIFFICULT
ME	MODERATELY EASY
VD	VERY DIFFICULT
VE	VERY EASY

Water

D	DRY
M	MOIST
W	WET
I	INJECTED

Sorting

G	GOOD
M	MODERATE
P	POOR
VG	VERY GOOD
VP	VERY POOR

Appendix 3: Digital Data

EL4325_2011_P_01_Collars.txt
EL4325_2011_P_02_Geology.txt
EL4325_2011_P_03_Assay.txt
EL4327_2011_P_04_Collars.txt
EL4327_2011_P_05_Geology.txt
EL4327_2011_P_06_Assay.txt
EL4331_2011_P_07_Collars.txt
EL4331_2011_P_08_Geology.txt
EL4331_2011_P_09_Assay.txt
EL4346_2011_P_10_Collars.txt
EL4346_2011_P_11_Geology.txt
EL4346_2011_P_12_Assay.txt
EL4347_2011_P_13_Collars.txt
EL4347_2011_P_14_Geology.txt
EL4347_2011_P_15_Assay.txt
EL4348_2011_P_16_Collars.txt
EL4348_2011_P_17_Geology.txt
EL4348_2011_P_18_Assay.txt