# BAUXITE RESOURCES LIMITED ACN 119 699 982

## **JUNE 2012 QUARTERLY REPORT**

# BRIL

#### **KEY POINTS:**

- JORC BAUXITE RESOURCES INCREASED BY 172% TO 139.5Mt
  - NEW 73 Mt FELICITAS BAUXITE RESOURCE ANNOUNCED MAY 2012
  - NEW 15 Mt CERES BAUXITE RESOURCE ANNOUNCED JULY 2012
- APPOINTMENT OF CREDENTIALLED EXECUTIVE BILL MOSS TO HEAD UP BAJV
- RECRUITMENT UNDERWAY FOR SUCCESSOR TO CURRENT CEO WHO STEPS DOWN AT END OF 2012
- CASH IN HAND \$48.03 MILLION WITH NO BANK DEBT

#### **CORPORATE SUMMARY**

**ASX Code: BAU** 

BAU: 235m ordinary shares & 6m share options on issue.

Market Cap: \$25.85m based on a market price of \$0.11 per share on 30 June 2012.

Cash: \$48.03 million at bank and no debt as at 30 June 2012.

Assets: \$7.5 million in assets related to property, plant and equipment.

Cash Flow: BRL received cash inflows of \$1.12 million from interest on fixed term deposits and rental of

plant and other assets.

Directors:				
Barry Carbon (AM)	Chairman	Yan Jitai	Non Executive Director	
Scott Donaldson	CEO & Executive Director	Neil Lithgow	Non Executive Director	
Luke Atkins	Non Executive Director	Robert Nash	Non Executive Director	
Ding Feng	Non Executive Director	John Sibly	Non Executive Director	
Sam Middlemas	Company Secretary	Kelvin May	Chief Financial Officer	

Registered Office: Level 2 Building E, 355 Scarborough Beach Rd. OSBORNE PARK WA 6017

Postal address: PO Box 1315, OSBORNE PARK DC WA 6916

T: +61 8 9200 8200 F: +61 8 9200 8299 E: admin@bauxiteresources.com.au W: www.bauxiteresources.com.au

#### **ACTIVITY SUMMARY**

#### **BAUXITE RESOURCES (JORC) INCREASED TO 139.5 MILLION TONNES**

Bauxite Resources Ltd (BRL or the Company), and its joint ventures has increased its overall JORC compliant bauxite resource base to almost 140 million tonnes. This has been achieved with the announcement of two new bauxite Resources in June (Felicitas) and July (Ceres).

BRL considers the JORC resource increases achieved over the last 12 months to be an excellent result that significantly improves the opportunity for the Company and its joint venture partners to develop a bauxite mining operation in the south west of Western Australia. The Company now has a number of potential mining projects in its portfolio and over the coming months will, together with its JV partners, identify those that should be prioritised for development.

Table 1: BRL Bauxite Projects in South West WA – Resource Summary Table

JORC Classification	Quantity (000,000)tonnes	Al <sub>2</sub> O <sub>3 (total)</sub> %	Al <sub>2</sub> O <sub>3 (available)</sub> %	SiO <sub>2 (reactive)</sub> %	JV & Resource Details #
Total Indicated	32.5	40.6	31.2	2.1	BAJV & HDM
Total Inferred	107.0	39.9	30.1	2.9	BAJV & HDM
WA TOTAL Bauxite	139.5	40.1	30.4	2.7	BAJV & HDM

# see Table 4 for specific resource estimate and joint venture details

#### APPOINTMENT OF BILL MOSS TO Bauxite Alumina Joint Venture (BAJV)

The Bauxite Alumina Joint Ventures with Yankuang Resources Ltd (Yankuang) have dual aims of defining bauxite resources for mining and development of a business case for a 1.1Mtpa alumina refinery to treat the Joint Venture bauxite. During the quarter, the BAJV announced the appointment of Mr Bill Moss as its new General Manager commencing 2nd October 2012. Mr Moss is a highly credentialled executive with significant Australian and international experience in the bauxite/alumina sphere and was, until recently the Project Director of the worlds largest bauxite to aluminium complex development at Ma'aden, Saudi Arabia. The recruitment of Mr Moss to head up the BAJV is a significant appointment and another positive step towards achievement of the joint ventures objectives.

#### RECRUITMENT UNDERWAY FOR SUCCESSOR TO CEO WHO STEPS DOWN AT THE END OF 2012

BRL's CEO, Scott Donaldson, has advised of his intention to step down from the dual role of CEO and Executive Director at the end of the 2012 calendar year in order to pursue other business interests. The Company has commenced an executive search for his replacement. During the tenure of Mr Donaldson BRL has established and bedded down its bauxite/alumina joint venture with Yankuang and bauxite resources have increased by approximately 800%.

#### **OTHER MINERALS REVIEW**

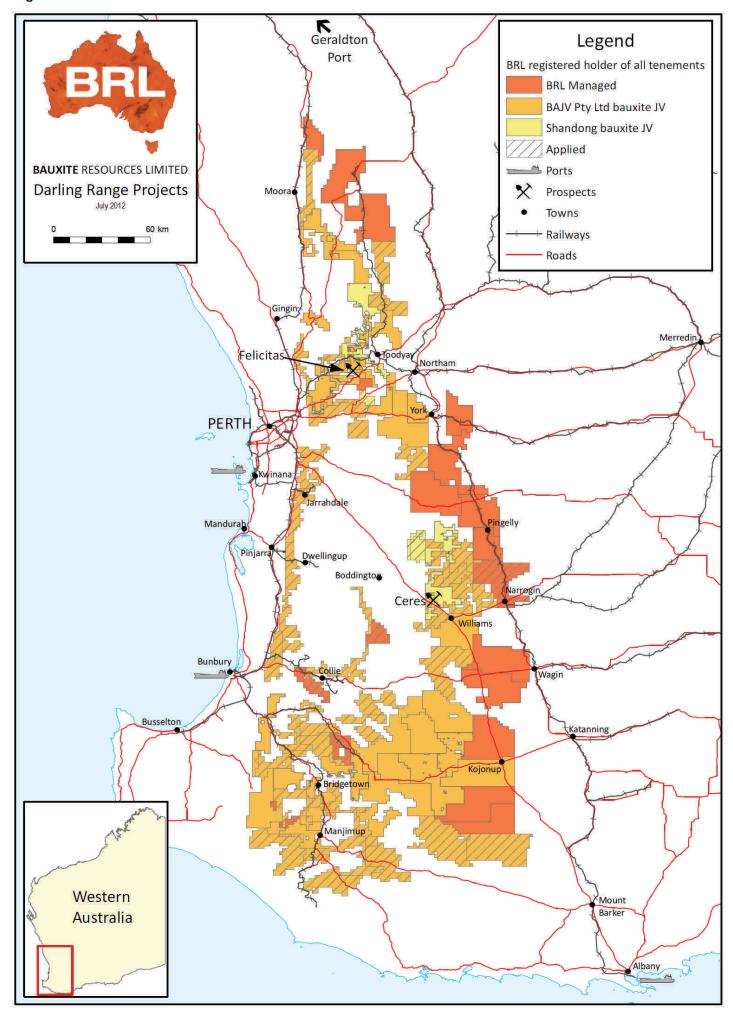
The Company announced a review of the prospectivity for other non bauxite minerals on its tenements in early 2012. Preliminary work has been completed and further programs of work will be completed once the Company has received the last of the aero magnetic survey data from the Western Australia Geological Survey in August. The Company will make further comment once that data has been reviewed.

#### **EXPLORATION LICENCE APPLICATIONS**

The Company now has 65 exploration licences granted in Western Australia, 59 of these are have been granted in the Darling Range area of which five were granted during the quarter. A further 67 are under application of which three have been referred to the Minister of Mines for a decision with a recommendation by the Western Australia Mining Warden against grant. Of the remaining 64 applications, 63 have passed through the statutory objection period without any objections received.



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#### **EXPLORATION ACTIVITY**

#### **Bauxite Resources 100%**

#### **Other Minerals**

BRL retains the non-bauxite mineral rights across more than 24,000km<sup>2</sup> of tenure that comprises the Darling Range Project. BRL commenced a review of the non-bauxite mineral potential of the Darling Range tenure late in 2011, and have since acquired at no cost the significant new aeromagnetic datasets recently released by the Geological Survey, Western Australia. An interpretation of the geophysical data has commenced that will integrate knowledge gleaned from regional geological, drilling and geochemical datasets and from exploration models developed through the review of more than 1000 open file exploration and government reports. This process is expected to provide the Company with a range of gold, coal and iron targets for review in the September quarter.

#### **Bauxite Alumina Joint Venture**

During the quarter BRL announced an initial resource for the Felicitas bauxite deposit in the Darling Range Western Australia. The resource is situated on a small number of large private landholdings located approximately 100km north east of Perth, and 10km from the town of Wundowie. The area is bounded to the west by state forest, to the north and east by existing quarry operations, and to the south by farmland. The resource is less than 5km from existing rail infrastructure providing a direct 100km link to Fremantle/Kwinana Port.

**Table 2: Felicitas Deposit Resource Classification** 

JORC Classification	Quantity <sup>(2)</sup> (000,000) tonnes	Al2O3 (total) %	Al2O3(av) <sup>(1)</sup> %	SiO2(r) <sup>(1)</sup> %	SiO2(total) %	Al2O3 (av) : SiO2 (r)
Indicated	20.9	39.2	30.6	1.5	5.8	20.4
Inferred	52.4	39.2	30.1	2.0	9.1	15.5
TOTAL	73.3	39.2	30.3	1.9	8.2	15.9
(Ind & Inf)						

1. Available  $Al_2O_3$  and reactive  $SiO_2$  determined using Bomb test at  $143^{\circ}C$  to replicate low temperature Bayer process method 2. see table 4 for resource estimate and joint venture details; 3. Al2O3(av) = available alumina, SiO2(r) = reactive silica at  $143^{\circ}C$ 

The Felicitas deposit is situated on granted exploration tenements E70/3159, E70/3900 and E70/4021. It comprises a bauxite horizon of 2m to 16m thickness that is typically covered by 0.5m to 2m of loose overburden. The resource estimate, completed by Runge Limited, was based on 3,624 vertical holes drilled for 24,085m on a nominal 80m x 80m drill pattern. The available alumina and reactive silica results quoted are based on low temperature bomb analysis (143°C), and the results indicate that the majority of alumina present is as the tri-hydrate mineral gibbsite.

The deposit is considered to have further resource growth potential as drilling programs to date have yet to fully test the lateral extent of the mineralisation and it is therefore not considered to be closed off. Additional drilling is planned to commence in 2012 with the intention of adding to the resource base.

#### **HD Mining Joint Venture**

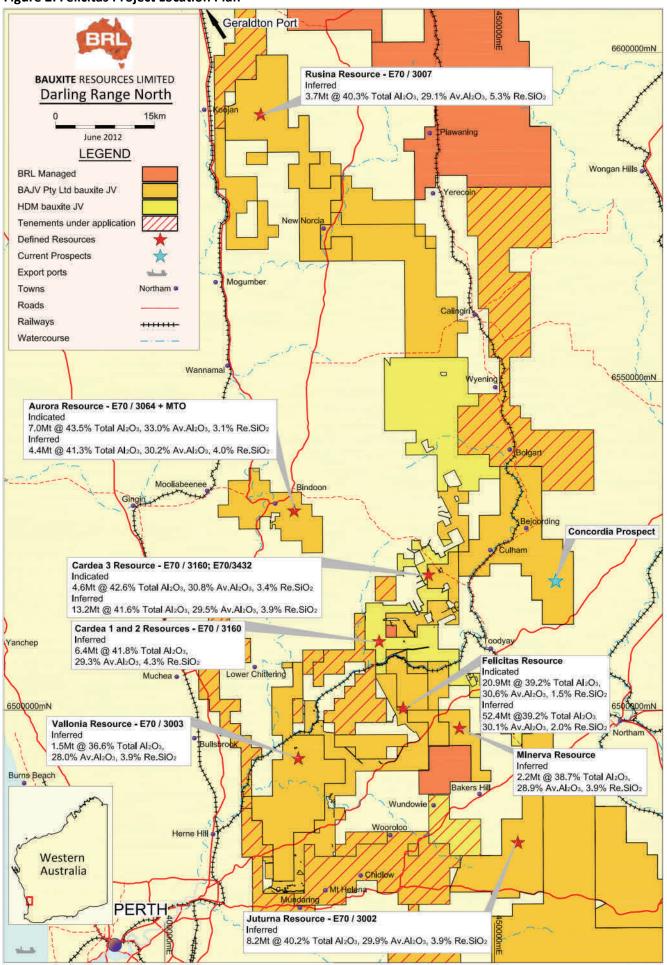
During July BRL announced an initial resource for the Ceres bauxite deposit in the Darling Range, Western Australia. The Ceres deposit extends across 3500Ha of private farmland 20km to the north of Williams and 150km to the southeast of Perth (figure 3). The Ceres deposit is situated on a small number of large private landholdings that have been cleared for farming and grazing and are readily accessible by road. The site is located within 35km of existing rail infrastructure that connects to the Albany port, a distance by rail of 270km.

**Table 3: Ceres Deposit Resource Classification** 

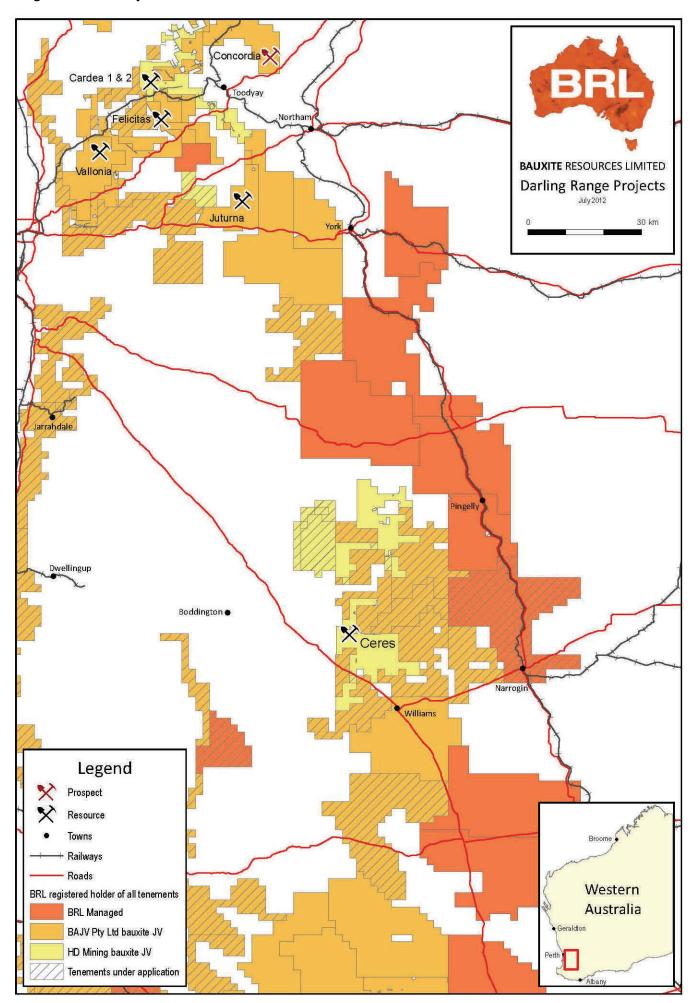
JORC Classification	Quantity <sup>(2)</sup> (000,000) tonnes	Al2O3 (total) %	Al2O3(av) <sup>(1)</sup> %	SiO2(r) <sup>(1)</sup> %	SiO2(total) %	Al2O3 (av) : SiO2 (r)
Inferred	15.0	40.9	31.7	3.0	19.5	10.6

- 1. Available  $Al_2O_3$  and reactive  $SiO_2$  determined using Bomb test at  $143^{\circ}C$  to replicate low temperature Bayer process method
- 2. See Table 4 for resource estimate and joint venture details; 3. Al2O3(av) = available alumina, SiO2(r)= reactive silica at  $143^{\circ}$ C
- 3. Ceres Mineral Resource was wholly reported within interpreted wireframes which were developed based on a 25% available alumina cutoff .

**Figure 2: Felicitas Project Location Plan** 



**Figure 3: Ceres Project Location Plan** 



#### **EXPLORATION ACTIVITY - continued**

The Ceres resource estimate is based upon drilling programs commenced in 2010 and completed in late 2011. The deposit comprises a bauxite horizon of up to 8m thickness that is typically covered by 0.5 to 2m of loose overburden. The resource estimate, completed by Snowden Mining Industry Consultants Pty Ltd, was based on 3,017 vertical holes drilled for 7,923.5m across an area of approximately 3,500Ha on a nominal 80m x 80m drill pattern. The available alumina and reactive silica results quoted are based on low temperature bomb analysis (143°C), and the results reflect the high proportion of alumina present as the tri-hydrate mineral gibbsite.

The extent of the bauxite mineralisation has not been fully determined, and additional vacuum drilling is planned to commence later in the year with the aim of adding to the resource base. In addition to this a bulk sampling programme is planned, the aim of which is to provide material for beneficiation and metalurgical test work. This test work is aimed at improving the economics of the existing resource through removal of excess detrimental materials, principally quartz and reactive silica, thus upgrading the available alumina component of the ore.

#### **Alumina Refinery Joint Venture**

The structure of the Joint Venture partnerships between BRL and Yankuang has the potential to play an important role in building value for BRL shareholders. The refinery joint venture provides BRL with the opportunity to have a leveraged participation in a business that would normally not be available to the Company due to the high capital cost entry barriers. Under the terms of the BAJV:

- The Joint Venture will carry out bauxite exploration aimed at defining not less than 90 million tonnes of refinery grade bauxite with costs and bauxite ownership to be split 30% BRL and 70% Yankuang;
- A feasibility study into the viability of constructing and operating a modern alumina refinery will be completed by the Joint Venture with study costs to be split 10% BRL and 90% Yankuang;
- Subject to the feasibility results, BRL & Yankuang will design and build a modern refinery of not less than 1.1 Mtpa capacity in the south west of Western Australia. Yankuang will finance 91% of the construction cost and BRL 9%;
- The alumina produced by the refinery will be split with BRL receiving 30% of the product and Yankuang 70%; and
- Yankuang has agreed to purchase 50% of BRL's share of the alumina for a period of 10 years at a price to be agreed and to assist BRL in obtaining its 9% of the construction funding.

#### **Bauxite Characterisation and Beneficiation Studies**

Characterisation work continues on the bauxite resources identified as does test work programs aimed at improving the quality of the bauxite through a process of beneficiation. This technique has been used by some of the world's most successful producers of bauxite including the Trombetis and Weipa projects.

Test results to date have been encouraging and further scoping study level test work is planned for the year on existing and new bauxite resources.

#### **Aurora Bauxite Project - Bindoon Bauxite Mine Proposal**

The BAJV continues to work towards the establishment of a mining operation (Aurora Project) producing 2Mtpa of bauxite, gravel and other material. The Project referral has been accepted by the Environmental Protection Authority of Western Australian ("EPA") which has determined that a Public Environmental Review ("PER") is the appropriate level of assessment.

The BAJV is continuing to carry out various baseline studies that will be incorporated into the PER and Social Impact Assessment for the Project. As some of these baseline studies are seasonal in nature the Company expects that the studies will be completed after the 2012 spring and the results will subsequently be provided to the EPA. Completion of the PER process will allow mine planning to be completed and the consequent evaluation and conversion of the economic portion of the geological resources into JORC compliant ore reserves.

Table 4: BRL Bauxite Projects in south west Western Australia – Resource Summary Table

Deposit &	Size	Al <sub>2</sub> O <sub>3 (total)</sub>	Al <sub>2</sub> O <sub>3 (available)</sub>	SiO <sub>2 (reactive)</sub>	Reporting	JV & Resource Details
Classification	Mt	%	%	%	Cut-off Al <sub>2</sub> O <sub>3 (av)</sub> %	*
Felicitas						
Indicated	20.9	39.2	30.6	1.5	25	BAJV (Jun 2012)
Inferred	52.4	39.2	30.1	2.0	25	BAJV (Jun 2012)
Cardea 3 (BAJV)						
Indicated	3.5	42.5	31.1	3.2	25	BAJV (Nov 2011)
Inferred	7.0	41.0	30.1	3.5	25	E70/3432
Minerva						
Inferred	2.2	38.7	28.9	3.9	25	BAJV (Aug 2011)
Aurora						
Indicated	7.0	43.5	33.0	3.1	24	BAJV (Apr 2011)
Inferred	4.4	41.3	30.2	4.0	24	
Rusina						
Inferred	3.7	40.3	29.1	5.3	26	BAJV (Apr 2011)
Juturna						
Inferred	8.2	40.2	29.9	3.9	25	BAJV (Jun 2011)
Vallonia						
Inferred	1.5	36.6	28.0	3.9	25	BAJV (Jun 2011)
BAJV sub-total	110.8	39.8	30.3	2.5		
Cardea (1&2)						
Inferred	6.4	41.8	29.3	4.3	25	HDM (Aug 2011)
Cardea 3 (HDM)						
Indicated	1.1	42.8	30.0	4.0	25	HDM (Nov 2011)
Inferred	6.2	40.3	28.9	4.4	25	E70/3169
Ceres						
Inferred	15.0	40.9	31.7	3.0	25	HDM (Jul 2012)
HDM sub-total	28.7	41.0	30.5	3.6		
Total Indicated	32.5	40.6	31.2	2.1		
Total Inferred	107.0	39.9	30.1	2.9	-	BAJV & HDM
South West WA TOTAL Bauxite	139.5	40.1	30.4	2.7	-	BAJV & HDM

#BAJV - Bauxite Alumina Joint Venture area with Yankuang Resources Ltd where the BRL retains 30% beneficial interest in the bauxite rights.

HDM — Resources within joint venture with HD Mining & Investments Pty Ltd, the wholly owned subsidiary of Shandong Bureau No.1 Institute for Prospecting of Geology & Minerals, where HD Mining can earn up to 60 % of bauxite rights upon completion of certain milestones including completion of a BFS leading to a decision to mine.



Tenement holding as at 30 June 2012	Application	Granted
Bauxite Resources JV with Yankuang	46	41
Bauxite Resources JV with Shandong	4	4
BAUXITE RESOURCES LTD (non JV)		
Darling Range	8	14
Kimberley	7	6
Northern Territory	2	0
TOTAL	67	65

#### **Background to Bauxite Resources Ltd:**

#### **ASX code BAU**

Bauxite Resources Ltd (BRL) is the largest tenement holder in the highly prospective Darling Range in southwest Western Australia.

The past 12 months has seen a number of key objectives and milestones being met including the increase in proven bauxite resources by 300%.

BRL has also increased the number of granted tenements, land access agreements and the number of Darling Range projects while at the same time demonstrating prudent financial management by maintaining high cash reserves to fund future growth projects

BRL has entered into two bauxite joint ventures over its Darling Range tenements and retains 100% ownership of all minerals outside the bauxite resources identified. Gold, coal, iron ore, tin, tantalum and mineral sands are all produced in this region of Western Australia with BRL tenements covering approximately 24,000km<sup>2</sup>.

BRL is currently building on its bauxite joint ventures and moving towards building a diversified resource base. The Darling Range is the world's largest bauxite producing region, suppling 23% of the world's alumina, and home to Australia's largest gold mine at Boddington.

Scott Donaldson - CEO & ED

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#### **COMPETENT PERSON STATEMENT**

#### Cardea 1&2, Cardea 3, Juturna, Vallonia, Minerva, Aurora, Rusina and Vallonia Mineral Resources

The information in this report that relates to Mineral Resources is based on information compiled by Peter Senini who is a Member of the Australian Institute of Geoscientists. Mr Senini is a part-time employee of the company. Mr Senini has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he (or she) is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Senini consents to the inclusion in the report of the matters based on his (or her) information in the form and context in which it appears.

#### Felicitas Mineral Resource

The information in this report that relates to Mineral Resources is based on information compiled by Graham de la Mare who is a Member of the Australian Institute of Geoscientists. Mr de la Mare is employed by Runge Limited. Mr de la Mare has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he (or she) is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr de la Mare consents to the inclusion in the report of the matters based on his (or her) information in the form and context in which it appears.

#### Ceres Mineral Resource

The information in this report that relates to Mineral Resources is based on information compiled by Mr Shane Fieldgate and reviewed by Mr Justin Watson from Snowden Mining Industry Consultants. Mr Watson is a registered chartered professional and Member of the Australian Institute of Mining and Metallurgy. Mr Watson has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Watson consents to the inclusion in the report of the matters based on his (or her) information in the form and context in which it appears.

# JORC LIST OF ASSESSMENT AND REPORTING CRITERIA - 2004 GUIDELINES

Parameters for Ceres res	source estimate
Sampling techniques	Vacuum samples were collected as 0.5m samples using a twin riffle splitter
Drilling techniques	All drilling is vacuum using a 45mm drill bit
Drill sample recovery	BRL geologists monitor sample recovery from vacuum drilling by weighing and tracking the mass of recovered sample cuttings. Poor recovery can occur due to cavities, partial blockages of the samples hose and wet samples. Recovery is generally high for the data input into the resource estimates. For diamond-core drilling the core recovery is established by measurement of the recovered core. Triple-tube diamond drilling is used to maximise recovery and where recovery is poor through target zones of resource, the holes are abandoned and re-drilled nearby until acceptable recovery is achieved.
Logging	BRL geologists log the vacuum samples in 0.5-metre down-hole increments. Regular chip-tray samples are collected as permanent physical records for audit and validation purposes. Diamond core samples are logged and photographed in core trays. Data is captured in digital core loggers. All logging data is captured in digital logging devices to ensure consistency of coding and minimise data entry errors.
Sub-sampling tech- niques and sample preparation	The vacuum samples for each 0.5 metre of drilling are collected at the rig using a riffle splitter to collect approximately 1.5kg of sample into a calico bag with the remaining sample dropped onto the ground. The majority of diamond core is collected whole in 0.25 metre interval into a calico bag. The whole core is broken with a brick chisel or collected by hand in unconsolidated material. Selected intervals of bauxite mineralisation are collected in longer intervals and dispatched for bulk density measurements. Samples were crushed, pulverized and subsampled at the laboratory.
Quality of assay data and laboratory tests	The majority of BRL samples were analysed at Nagrom Laboratory in Perth with some earlier samples analysed at Ultra Trace Laboratory in Perth. Bauxite Resources documentation describes the analysis of samples by a number of ISO standards methodologies (6140:1991, 9516:2003, 12677:2003, 6606:1986, ISO 6607:1985, 10213:10213, 6994:1986, 6995:1985, 6606:1986; 8557:1985). These analyses provided estimates of principal bauxite components of alumina, silica, iron, titania, and loss on ignition, and a suite of trace elements. Results reported by BRL as available alumina and reactive silica represent partial extractions. BRL documentation describes the in-laboratory quality control methods which include the use of four matrix match standards, and determination of precision and accuracy according to ISO standards. The company also include a high-grade and a low-grade, in-house (uncertified), standard as blind-standards in the field sample stream at a 1:200 ratio. BRL also collect duplicate samples in the field sample stream.
Location of data points	Drillhole collar surveys are based on WA's Department of Land and Administration survey marks for control and using differential GPS equipment to locate the drill collars within a precision of ± 0.05 metres. Topographic data used for the Mineral Resource areas is a combination of GEODATA TOPO 250K Series 3 and Landgate Medium-scale Topographic Database data. BRL did not survey the hole paths of any of the drilling because all holes are vertical and do not exceed 10m in depth.
Data spacing and distribution	BRL has drilled collar spacings at 80m (along strike) by 80m (on section) and this is considered adequate to establish both geological and grade continuity. Sampling has been completed on a 0.5-metre interval.
Orientation of data in relation to geological structure	The orientation of the drilling (vertical) is approximately perpendicular to the sub-horizontal mineralisation and is unlikely to have introduced any significant sampling bias.
Database integrity	BRL drilling data is hosted by an external provider (OREdata Pty Ltd) in the acQuire database system, which is designed to capture, store and verify geological drilling data. Data collected in field loggers is transferred to the database via text files as is data from the laboratory. OREdata provide reports to the company regarding basic integrity validation of the data such as overlapping records, missing assays and duplicate drillhole identifiers. Snowden also carried out validation checks on the data supplied by BRL prior to resource estimation. No significant errors were identified.
Geological Interpretation	The bauxite zone at the Ceres deposit has developed due to the weathering of parent host rocks of the Darling Range plateau. The weathering process has resulted in the development of a lateritic profile where iron and alumina have been enriched as other elements have been removed from the profile. The lateritic profile at Ceres is characterized by 4 major zones:
	Pisoltic Gravels (0 to 2m)  Rauvite Zone (1 to 8m)
	Bauxite Zone (1 to 8m)      Transitional Zone
	Clay Zone
	The bauxite zone has been defined by both geological logging and analytical results and varies from 1m to 8m in thickness. The bauxite zone is subhorizontal and is typically enriched at the top of hills and adjacent flanks and along ridges. The low grade bauxite zone is characterized by material grading greater than 17% avalailable alumina. Enriched zones of bauxite which are reported within the Resource are typically greater than 25% available alumina.
Dimensions	The area of mineralisation occurs within over a 27.8 km strike length and 10.9 km width with tenement E70/3179. The area is extended to a known depth of around 16 m from surface. The thickness of the interpreted bauxite zone ranges from less than 1 m up to 8 m.
Estimation and model- ling techniques	Grades for total alumina, available alumina, total silica, reactive silica, Fe2O3 and TiO2 were estimated using ordinary block kriging into 20 mN by 20 mE by 2 mRL parent cells. Subcelling down to 2.5m by 2.5mby 0.5m (YXZ) were used to ensure the block model honoured the interpreted bauxite zone geometry. Estimation used a 4 pass multiple search approach where an initial high confidence search with a minimum of 6 samples and a maximum of 30 samples was followed by lower confidence search and kriging criteria. Estimation honoured interpreted zones of bauxite by only using samples within the bauxite zone for estimation of blocks within the bauxite zone. Samples were estimated in true space and no limitations were applied to the number of samples selected from a single drillhole or the number of samples from a given quadrant or octant.
Moisture	Resource tonnages are reported as dry metric tonnes with an applied dry density of 1.6 tonnes per cubic metre. Available test data indicates the dry density is in the order of 1.6 tonnes per cubic metre with wet density in the order of 1.7, which implies an in situ moisture content of 0.1 tonnes per cubic metre (6 to 7 percent moisture).
Cut-off parameters	Interpretation of mineralised lodes was carried out using a nominal lower cut-off of 17% available Al2O3. Higher grade Resource material which is considered potentially economic was defined based on a cut-off of 25% available Al2O3.
Mining factors and assumptions	No mining factors or assumptions have been applied
Metallurgical assumptions	The company is carrying out studies to assess the degree to which high-silica Mineral Resources can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.
Bulk density	In-situ density set to 1.6t/m3 for the interpreted bauxite material within all areas. Values were provided by BRL and based on 770 previous reported measurements on diamond core samples taken from neighbouring BRL deposits
Classification	The estimate has been classified as an Inferred Mineral Resource based on geological confidence, the integrity of the data, the spatial continuity of the mineralisation as demonstrated by variography, and the quality of the estimation. Only material equal or greater than 1.0m in thickness which was laterally continuous and amenable to mining has been reported in the Resource
Audits and reviews	Snowden has completed an internal peer review of the estimate.
Discussion of relative accuracy/ confidence.	No studies of relative confidence have been carried out. 10

Parameters common to	Aurora, Rusina, Juturna, Vallonia, Cardea 1&2, Minerva & Cardea 3 resource estimates
Sampling techniques	Vacuum samples were collected over 0.5m intervals (whole sample: Aurora, Rusina, Juturna & Vallonia; 50% twin riffle split sample: Cardea 1 & 2, Minerva, Cardea 3)
Drilling techniques	All drilling is vacuum using a 45mm drill bit
Drill sample recovery	Geologists monitor sample recovery from vacuum drilling by weighing and tracking the mass of recovered sample cuttings. Poor recovery can occur due to cavities, partial blockages of the samples hose and wet samples. Recovery is generally high for the data input into the resource estimates. For diamond-core drilling the core recovery is established by measurement of the recovered core. Triple-tube diamond drilling is used to maximise recovery and where recovery is poor through target zones of resource, the holes are abandoned and re-drilled nearby until acceptable recovery is achieved.
Logging	Geologists log the vacuum samples in 0.5-metre down-hole increments. Regular chip-tray samples are collected as permanent physical records for audit and validation purposes. Diamond core samples are logged and photographed in core trays. Data is captured in digital core loggers. All logging data is captured in digital logging devices to ensure consistency of coding and minimise data entry errors.
Sub-sampling tech- niques and sample preparation	The entire sample for each 0.5m of vacuum drilling was collected into a calico bag at the drill site (Aurora, Rusina, Juturna & Vallonia) or samples for each 0.5m of vacuum drilling was split once through a riffle splitter and collected into a calico bag at the drill site (Cardea 1 & 2, Minerva, Cardea 3). If there is any chance that contamination or bias may occur through wet or sticky samples during riffle splitting, then the whole sample is collected. At the laboratory samples were dried, crushed, pulverized to p95/150micron before a subsample was taken for analysis. The majority of diamond core is collected whole in 0.25 metre interval into a calico bag. The whole core is broken with a brick chisel or collected by hand in unconsolidated material. Selected intervals of bauxite mineralisation are collected in longer intervals and despatched for bulk density measurements.
Quality of assay data and laboratory tests	The majority of Bauxite Resources samples were analysed at Nagrom Laboratory in Perth with some earlier samples analysed at Ultra Trace Laboratory in Perth. Bauxite Resources documentation describes the analysis of samples by a number of ISO standards methodologies (6140:1991, 9516:2003, 12677:2003, 6606:1986, ISO 6607:1985, 10213:10213, 6994:1986, 6995:1985, 6606:1986; 8557:1985). These analyses provided estimates of principal bauxite components of alumina, silica, iron, titania, and loss on ignition, and a suite of trace elements. Results reported by Bauxite Resources as available alumina and reactive silica represent partial extractions. Bauxite Resources documentation describes the in-laboratory quality control methods which include the use of four matrix match standards, and determination of precision and accuracy according to ISO standards. The company also include a high-grade and a low-grade, in-house (uncertified), standard as blind-standards in the field sample stream at a 1:200 ratio. Bauxite Resources also collect duplicate samples in the field sample stream. Principal analytical techniques utilized include Fourier Transform Infra Red (FTIR), XRF (fused beads), and adiabatic bomb analysis (148°C, 30min. finish A/C <0.40).
Verification of sam-	A vacuum-diamond core twin-hole programme has been undertaken at Aurora. The company's analysis of these holes was that the vacuum
pling and assaying  Location of data points	drilling tended to marginally understate alumina and marginally overstate silica.  Drillhole collar surveys are based on WA's Department of Land and Administration survey marks for control and using differential GPS equipment to locate the drill collars within a precision of ± 0.05 metres. Topographic data used for the Mineral Resource areas is a combination of GEODATA TOPO 250K Series 3 and Landgate Medium-scale Topographic Database data. Bauxite Resources did not survey the hole paths of any of the drilling because all holes are short and any deviation errors are not significant relative to the average drill hole spacing used to defined the Mineral Resources.
Data spacing and distri- bution	Aurora & Rusina: variety of drill collar spacings ranging from first pass drilling on a 160-metre square grid, second pass drilling on a 40-metre square grid and detailed drilling on a 20-metre square grid. Juturna, Vallonia Cardea 1 & 2, Minerva & Cardea 3: a variety of drill collar spacings ranging from wide spaced first pass drilling on a 160-metre square grid, to broader coverage on an 80-metre square grid. All vertical sampling is on a 0.5-metre interval, either raw or composited.
Orientation of data in relation to geological structure	The orientation of the drilling (vertical) is approximately perpendicular to the sub-horizontal mineralisation and is unlikely to have introduced any significant sampling bias.
Database integrity	The Bauxite Resources drilling data is hosted by an external provider (rOREdata Pty Ltd) in the acQuire database system, which is designed to capture, store and verify geological drilling data. Data collected in field loggers is transferred to the database via text files as is data from the laboratory. rOREdata provide reports to the company regarding basic integrity validation of the data such as overlapping records, missing assays and duplicate drillhole identifiers.
Aurora & Rusina Resourc	ce Estimate Parameters – May 2011
Geological interpretation	For both Rusina and Aurora, Xstract determined the limits of the bauxite mineralisation using a maximum thickness for a particular available-alumina grade cut-off methodology. Xstract tested a range of available alumina cut-off grades and determined that a nominal >24% available alumina threshold at Rusina and >24% available alumina threshold at Aurora best defined the bauxite layer in terms of geological continuity and target grade characteristics for available alumina and reactive silica. Xstract then created bauxite outlines for this threshold in two-dimensions to control the resource estimate. The Aurora outlines were extended to a three-dimensional volume, which was clipped to topography where necessary. At Rusina the interpretation uncertainty is higher as available alumina grades have been largely estimated by regression of alumina. The uncertainty at Aurora is lower as measurements are available for available alumina in all but very recent in-fill drillholes.
Dimensions	Aurora: mineralisation occurs in two large pods. The south pod has maximum extents in the order of 5.3km x 2.6km. The north pod has maximum extents in the order of 1.3km x 1.3km. The pod thickness in the north averages 2.7m and ranges from 0.1m to 11m while in the south the thickness averages 1.6m and ranges from 0.1m to 8.6m. The pods are near surface, flat lying and with average overburden thicknesses of 0.5m in the north and 0.9m in the south. Rusina: mineralisation occurs in four separate pods. The north pod has maximum extents in the order of 1.5km x 0.6km, the east pod has extents of 0.9km x 0.4km, the south pod has extent of 1.4km x 0.6km, and the west pod has extent of 0.9km x 0.4km. The pod thickness average is 1.7m and range of 0.5m to 5.0m in thickness. The pods are near surface, flat lying and with average overburden thickness 0.75m.
Estimation and model- ling techniques	Aurora: Three dimensional block modelling within the interpreted 24% Available Alumina envelope. Block grades for alumina, silica, available alumina and reactive silica were estimated using ordinary kriging within the envelope from composited drillhole data. Rusina: Two dimensional block modelling within the interpreted 24% Available Alumina envelope. Block grades for alumina and silica were estimated using ordinary kriging of thickness and the accumulated variables within the envelope from composited drillhole data. Available alumina and reactive silica grades were estimated using regression from the estimated alumina and silica block grades. The models were validated by visual comparison of input data and output block estimated grades, and comparison of input and output means. An internal peer review process confirmed correct application of estimation parameters in the estimation processes. Standardised kriging variances were used as a guideline to the local precision of estimates.
Moisture	Mineral Resource tonnages are reported as dry metric tonnes with an assumed dry density of 1.6 tonnes per cubic metre. Available test data indicates the dry density is in the order of 1.6 tonnes per cubic metre with wet density in the order of 1.7, which implies an in situ moisture content of 0.1 tonnes per cubic metre (6 to 7% moisture)1

Cut-off parameters  The cut-off grade applied to fusina is a nominal 26% available alumina threshold derived from data measurements and/or regression estimates. The cut-off grade applied to Juroin 21 is a nominal 24% available alumina threshold derived from data measurements and/or regression estimates. The cut-off envelope has been rationalized in realistic labriar geological continuity.  It is assumed that mining of the depoted with the visit was dischored configuration and that there will be good visual control to establish the following and the parameters of the tops and base of basels of the parameters of the tops and base of basels and the proposal tops of the parameters of the tops and base of basels and the proposal tops of the parameters of the para		<del>,</del>
the top and base of blauelite during mining. There has been no minimum mining thickness assumed.  A both Autorn and Mustan, the available aluming grades exceeding frour day weight percent have a significant negative effect on Bayer process reagent consumption. The company is carrying out studies to assess the degree to which high-silical media Resources such as a Rusina, can be positively affected by application of beneficiation techniques. High-silica is not an issue for Aurora Resources and there are also low-silica sources within the deposit that could be binded with Missan Resources to produce acceptable process products.  Bulk density A dry bulk density of 1.6 forms per cubic metre was applied to Rusina and Aurora estimates.  Classification  The Mineral Resource estimates were classified primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Rusina estimate is all classified as inferred Mineral Resource estimates. As the end of the produces of the produce acceptable process produce.  Audits and reviews  The mineral resources estimates have been perce reviewed by Xsiract and by Baustic Resources' Competent Person. No external fully independent audits or reviews have been completed.  No uncertainty studies have been completed.  No uncertainty studies have been completed.  No uncertainty studies have been completed and accuracy of the Mineral Resource estimates. A trial mining exercise has been completed af Aurora but the mining information is yet to be compared and reconciled.  Juturna Vallonia Resource Estimates and Vallonia, geological wireframes were constructed to represent the major zones within the laterite profile. The overlying gravel zone and underlying clay zone are assumed to be outside of the main mineralised envelope, which is defined by the bardon, bauste and transtrational zones. Each order, joined looksylly by some lower grade material. The two southern pods have a contract of the produce of the produce of the produce of the produce of the	Cut-off parameters	
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Independent audits or reviews have been completed.	Classification	ered appropriate. The Rusina estimate is all classified as Inferred Mineral Resource due to the incomplete measurement of available alumina and reactive silica, incomplete survey and the two-dimensional nature of the block model. The Aurora estimate has been classi-
mining exercise has been completed at Aurora but the mining information is yet to be compared and reconciled.  Juturna & Vallonia Resource Estimate Parameters — June 2011  Geological interpretation  For both Juturna and Vallonia, geological wireframes were constructed to represent the major zones within the laterite profile. The overlying gravel zone and underlying clay zone are assumed to be outside of the main mineralised envelope, which is defined by the hardcap, bauxite and transitional zones. Each zone has been estimated individually in the Juturna model however due to the similarity of populations, the hardcap and bauxite zones were estimated together at Vallonia.  Juturna: mineralisation occurs in three main pods, joined loosely by some lower grade material. The two southern pods have a combined maximum extent in the order of 3.2km x 1.5km. The north pod has maximum extents in the order of 1.7km x 1.7km. The thickness of the main ore bearing zones in the south averages 2.5m and ranges from 0.3 m to 8.0m while in the north the thickness averages 3.2m and ranges from 0.3 m to 1.0 m. The pods are near surface, flat lying and with average overburden thickness of 0.7m. Allonia: the resource was modelled as two discrete zones. The eastern zone has maximum extents in the order of 1.0km x 0.6km; the western zone near surface, flat lying and with average overburden thickness of the main ore bearing zones averages 1.8m and ranges from 0.8m to 6.0m. The pods are near surface, flat lying and with average overburden thickness 0.6m.  Estimation and modelling techniques  Estimation and modelling techniques with interpretational. Block grades for alumina, silica, available alumina and reactive silica were estimated using ordinary kriging within the discrete peological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete peological zones. Some available alumina and reactive silica ordinary silica available alumina and reactive silica ordinary silica were the merged w	Audits and reviews	
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Geological interpretation  For both Juturna and Vallonia, geological wireframes were constructed to represent the major zones within the laterite profile. The overlying gravel zone and underlying clay zone are assumed to be outside of the main mineralised envelope, which is defined by the hardcap, bauxite and transitional zones. Each zone has been estimated individually in the Juturna model however due to the similarity of populations, the hardcap and bauxite zones were estimated together at Vallonia.  Juturna: mineralisation occurs in three main pods, Joined loosely by some lower grade material. The two southern pods have a combined maximum extent in the order of 3.2km x 1.5km. The north pod has maximum extents in the order of 1.7km x 1.7km. The thickness of the main one bearing zones in the south averages 2.5m and ranges from 0.3m to 8.0m while in the north the thickness averages 3.2m and ranges from 0.2m to 1.10m. The pods are near surface, flat lying and with averages or 0.7m. averages 2.2m and ranges from 0.3m to 8.0m while in the north the thickness and from the resource was modelled as two discrete zones. The eastern zone has maximum extents in the order of 1.0km x 0.6km; the western zone has extents of 2.1km x 1.1km. The thickness of the main or over the pods are near surface, flat lying and with average overburden thickness 0.6m.  Betimation and modelling better the surface of 1.0km x 0.6km; the western zone near surface, flat lying and with average overburden thickness 0.6m.  Both Juturna and Vallonia were estimated using three dimensional block modelling within the interpreted mineralised zones of hardcap, within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica block grades. These va	•	
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bined maximum extent in the order of 3.2km x 1.5km. The north pod has maximum extents in the order of 1.7km x 1.7km. The thickness of the main ore bearing zones in the south averages 2.5m and ranges from 0.3m to 8.0m while in the north the thickness averages 3.2m and ranges from 0.2m to 11.0m. The pods are near surface, flat lying and with average overburden thicknesses of 0.7m. Vallonia: the resource was modelled as two discrete zones. The eastern zone has maximum extents in the order of 1.0km x 0.6km; the western zone has extents of 2.1km x 1.1 km. The thickness of the main or be bearing zones averages 1.8m and ranges from 0.8m to 6.0m. The pods are near surface, flat lying and with average overburden thickness 0.6m.  Estimation and modelling techniques  Both Juturna and Vallonia were estimated using three dimensional block modelling within the interpreted mineralised zones of hardcap, bauxite and transitional. Block grades for alumina, silica, available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina in arctive silica were estimated with average over the merged with assume the summary and available alumina thresho	Geological interpretation	overlying gravel zone and underlying clay zone are assumed to be outside of the main mineralised envelope, which is defined by the hardcap, bauxite and transitional zones. Each zone has been estimated individually in the Juturna model however due to the similarity of
bauxite and transitional. Block grades for alumina, silica, available alumina and reactive silica were estimated using ordinary kriging within the discrete geological zones. Some available alumina and reactive silica grades outside of the main or zone were not assayed and were populated using a multiple linear regression from the estimated alumina and silica block grades. These values were then merged with assayed values to provide a complete data set for estimation purposes. The models were validated by visual comparison of input and output block estimation parameters in the estimation processes.  Mineral Resource tonnages are reported as dry metric tonnes with an assumed dry density of 1.6 tonnes per cubic metre. Available test data indicates the dry density is in the order of 1.6 tonnes per cubic metre with wet density in the order of 1.7, which implies an in situ moisture content of 0.1 tonnes per cubic metre (so to 7% moisture).  Cut-off parameters  The cut-off grade applied to both Juturna and Vallonia is a nominal 25% available alumina threshold derived from data measurements and/or regression estimates.  It is assumed that mining of the deposit will be via truck and shovel configuration and that there will be good visual control to establish the top and base of bauxite during mining. There has been no minimum mining thickness assumed.  Metallurgical assumptions  At both Aurora and Rusina, the available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica dineral Resources such as at Rusina, can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.  A dry bulk density of 1.6 tonnes per cubic metre has been used in both the Ju	Dimensions	bined maximum extent in the order of 3.2km x 1.5km. The north pod has maximum extents in the order of 1.7km x 1.7km. The thickness of the main ore bearing zones in the south averages 2.5m and ranges from 0.3m to 8.0m while in the north the thickness averages 3.2m and ranges from 0.2m to 11.0m. The pods are near surface, flat lying and with average overburden thicknesses of 0.7m. Vallonia: the resource was modelled as two discrete zones. The eastern zone has maximum extents in the order of 1.0km x 0.6km; the western zone has extents of 2.1km x 1.1 km. The thickness of the main ore bearing zones averages 1.8m and ranges from 0.8m to 6.0m. The pods are
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and/or regression estimates.  Mining factors and assumptions  Metallurgical assumptions  At both Aurora and Rusina, the available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica Mineral Resources such as at Rusina, can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.  Bulk density  A dry bulk density of 1.6 tonnes per cubic metre has been used in both the Juturna and Vallonia estimates.  Classification  The Mineral Resource estimates were classified primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40m square or less and Inferred Mineral Resource elsewhere.  Audits and reviews  The mineral resource estimates have been peer reviewed by Snowden and by Bauxite Resources' Competent Person. No external fully independent audits or reviews have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.	Moisture	data indicates the dry density is in the order of 1.6 tonnes per cubic metre with wet density in the order of 1.7, which implies an in situ
the top and base of bauxite during mining. There has been no minimum mining thickness assumed.  At both Aurora and Rusina, the available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica Mineral Resources such as at Rusina, can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.  A dry bulk density of 1.6 tonnes per cubic metre has been used in both the Juturna and Vallonia estimates.  Classification  The Mineral Resource estimates were classified primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40m square or less and Inferred Mineral Resource estimates have been peer reviewed by Snowden and by Bauxite Resources' Competent Person. No external fully independent audits or reviews have been completed.  No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.	Cut-off parameters	
At both Aurora and Rusina, the available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica Mineral Resources such as at Rusina, can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.  Bulk density  A dry bulk density of 1.6 tonnes per cubic metre has been used in both the Juturna and Vallonia estimates.  The Mineral Resource estimates were classified primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40m square or less and Inferred Mineral Resource elsewhere.  Audits and reviews  The mineral resource estimates have been peer reviewed by Snowden and by Bauxite Resources' Competent Person. No external fully independent audits or reviews have been completed.  No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.	=	
Bulk density  A dry bulk density of 1.6 tonnes per cubic metre has been used in both the Juturna and Vallonia estimates.  Classification  The Mineral Resource estimates were classified primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40m square or less and Inferred Mineral Resource elsewhere.  Audits and reviews  The mineral resource estimates have been peer reviewed by Snowden and by Bauxite Resources' Competent Person. No external fully independent audits or reviews have been completed.  Discussion of relative accuracy/ confidence.  No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.	Metallurgical assump-	At both Aurora and Rusina, the available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica Mineral Resources such as at Rusina, can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce
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independent audits or reviews have been completed.  Discussion of relative accuracy/ confidence.  No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.	Classification	ered appropriate. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40m square or less and Inferred Mineral Resource elsewhere.
accuracy/ confidence.	Audits and reviews	
Cardea 3 Resource Estimate Parameters – November 2011		No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.
	Cardea 3 Resource Estimat	te Parameters – November 2011

Cardea 3 Resource Estimate	e Parameters – November 2011
Geological interpretation	Geological logging of drilling has confirmed the geometry of the mineralisation with a high degree of confidence. Geochemical changes down hole have been used to determine the bauxite zone. A wireframe was constructed to represent the major zone of mineralisation within the laterite profile. The overlying gravel zone and underlying clay zone are assumed to be outside of the main mineralised envelope, which is defined by the hardcap, bauxite and transitional zones
Dimensions	The Cardea 3 resource area extends over a strike length of 3,8km, includes the 11.5m vertical interval from 344mRL to 332.5mRL and occurs as one continuous zone (pod). The Cardea3 portion within E70-3432 (BAJV) occurs as one main zone in the south and a small limb to the north which extends into E70-3160 (Shandong/HDM) and is part of the main continuous zone of mineralisation. The mineralisation is near surface, flat lying with an average overburden thickness of 0.75 metres.
Estimation and modelling techniques	The deposit mineralisation was constrained by wireframes constructed using a 16% available alumina cut-off grade in association with changes to reactive silica down hole. The wireframes were applied as hard boundaries in the estimate. The bauxite domain was constrained into one continuous zone of mineralisation and a statistical analysis was conducted on this domain. No high grade cuts were applied to the data. Using parameters derived from modelled variograms, Ordinary Kriging was used to estimate average block grades in 3 passes using Surpac. An ID2 interpolation was used to check the OK model. Parent block size of 40m NS by 40m EW by 1m vertical with sub-cells of 10m by 10m by 0.5m. The parent block size was selected on the basis of being approximately 50% of the average drill hole spacing in the deposit. Validation of the model included detailed comparison of composite grades and block grades by northing and elevation. Validation plots showed good correlation between the composite grades and the block model grades.
Moisture	Resource tonnages are reported as dry metric tonnes with an assumed dry density of 1.6 tonnes per cubic metre. Available test data indicates the dry density is in the order of 1.6 tonnes per cubic metre with wet density in the order of 1.7, which implies an in situ moisture content of 0.1 tonnes per cubic metre (6 to 7% moisture).

Cut-off parameters	The Mineral Resource has been reported at a 25% available Al2O3 cut-off and has been based on assumptions about economic cut-off			
Mining factors and	grades for open pit mining.  It is assumed that mining of the deposit will be via truck and shovel configuration and that there will be good visual control to establish the			
assumptions	top and base of bauxite during mining. There has been no minimum mining thickness assumed.			
Metallurgical assumptions	The available alumina grades exceed the stated Bauxite Resources target grade. Reactive silica is below the four to five dry-weight percent that is implied to have a significant negative effect on Bayer-process reagent consumption. The company is carrying out studies to assess the degree to which high-silica Mineral Resources can be positively affected by application of beneficiation techniques. Low-silica sources within the deposits could also be blended with higher silica resources to produce acceptable process products.			
Bulk density	A dry bulk density of 1.6 tonnes per cubic metre has been used. The in situ bulk density assignment was based on 770 previous reported measurements on diamond core samples taken from neighbouring BRL deposits.			
Classification	Mineral Resources were classified in accordance with the Australasian Code for the Reporting of Identified Mineral Resources and Ore Reserves (JORC, 2004). The Indicated portion of the resource was defined where the drill spacing was at 80m by 80m, continuity of mineralisation was robust through the thickest bauxite zones where limited or no calculated assays were used, and supported by kriging efficiencies of greater than 90%. The Inferred portion of the resource was defined where the drill spacing was still predominantly 80m by 80m, continuity of mineralisation was good, but a portion of available alumina and reactive silica assays were calculated rather than assayed.			
Audits and reviews  Discussion of relative	The mineral resource estimates have been peer reviewed by Snowden and by Bauxite Resources' Competent Person. No external fully independent audits or reviews have been completed.  No uncertainty studies have been carried out to establish the local confidence and accuracy of the Mineral Resource estimates.			
accuracy/ confidence.	The directionity studies have been curried out to establish the local communities and decardey of the minimum resource estimates.			
Parameters for Felicitas	resource estimate			
Sampling techniques	Vacuum samples were collected as 0.5m samples using a twin riffle splitter.			
Drilling techniques	All drilling is vacuum using a 45mm drill bit.			
Drill sample recovery	Actual recoveries are not recorded but riffle split samples are weighed and should be approximately 1.5kg. This provides an indirect record of sample recovery. Geologists comment when recovery is poor or ground conditions are wet.			
Logging	All holes were field logged by company geologists. Lithology and weathering information is routinely recorded.			
Sub-sampling tech- niques and sample preparation	All sampling procedures are considered to be of an acceptable standard and adhere to industry standards.  Vacuum – 0.5m samples collected at the rig using a riffle splitter to collect approximately 1.5kg samples in calico bags, with the remaining sample dropped onto the ground.  Procedure for field duplicate sampling for vacuum drilling is to retain both riffle split samples at a rate of 1:100, and more recently to 1:25 samples.			
Quality of assay data and laboratory tests	Estimates for principal bauxite components of alumina, silica, iron, titania, loss on ignition, and a suite of trace elements analysed by XRF at Nagrom Laboratory in Perth.  Laboratory control measures include the use of four matrix matched standards, and determination of precision and accuracy according to ISO standards (certified standards, blanks, check assay and duplicate sampling).  BAJV programs of QAQC have produced results which support the sampling and assaying procedures used at the site.			
Verification of sam-	No verification of intersections has been carried out at Felicitas			
pling and assaying Location of data	All the drill holes used in the resource estimate have been accurately surveyed. Down hole surveys have not been taken as drill holes are all			
points  Data spacing and	less than 25m in depth and drilled vertically through the predominantly flat lying laterite.  Drill spacing of 80m (along strike) by 80m (on section) and considered adequate to establish both geological and grade continuity.			
distribution				
Orientation of data in relation to geological structure	The orientation of the drilling (vertical) is approximately perpendicular to the sub-horizontal mineralisation and is unlikely to have introduced any significant sampling bias.			
Audits or reviews.	Sampling techniques were viewed in the field.			
Database integrity	Data audits were undertaken in Surpac. No major errors were recorded. rOREdata validate the database before sending to BAJV.			
Geological interpretation	Geological logging of drilling has confirmed the geometry of the mineralisation with a high degree of confidence. Geochemical changes down hole have been used to determine the bauxite zone.			
Dimensions	The Felicitas resource area extends over a strike length of 14.8km (from 6,490,730mN – 6,505,550mN) and includes the 25m vertical interval from 358mRL to 333mRL.			
Estimation and mod- elling techniques	The deposit mineralisation was constrained by wireframes constructed using a nominal 18% available Al2O3 cut-off grade in association with changes to reactive silica down hole. The wireframes were applied as hard boundaries in the estimate.  The bauxite domain was constrained into 24 separate objects. A statistical analysis was conducted on these objects. No high grade cuts were applied to the data. A geostatistical analysis was carried out on 4 of the main objects with resultant parameters applied to adjacent smaller lodes.  Using parameters derived from modelled variograms, Ordinary Kriging was used to estimate average block grades in 3 passes using Surpac. Parent block size of 40m NS by 40m EW by 1m vertical with sub-cells of 20m by 20m by 0.5m. The parent block size was selected on the basis			
	of being approximately 50% of the average drill hole spacing in the deposit.  Validation of the model included detailed comparison of composite grades and block grades by northing and elevation. Validation plots showed good correlation between the composite grades and the block model grades.			
Moisture	Tonnages and grades were estimated on a dry in situ basis. No moisture values were reviewed			
Cut-off parameters	The Mineral Resource has been reported at a 25% Av Al2O3 cut-off and has been based on assumptions about economic cut-off grades for open pit mining.			
Mining factors and assumptions	The deposit has the potential to be mined using open pit techniques.			
Metallurgical assump- tions	No assumptions have been made regarding metallurgy other than the material could be refined using the industry recognised Bayer Processing method.			
Bulk density	The in situ bulk density assignment was based on 773 previous reported measurements on diamond core samples taken from neighbouring BAJV deposits.			
Classification	Mineral Resources were classified in accordance with the Australasian Code for the Reporting of Identified Mineral Resources and Ore Reserves (JORC, 2004).  The Indicated portion of the resource was defined where the drill spacing was at 80m by 80m, continuity of mineralisation was robust			
	through the thickest bauxite zones where limited or no calculated assays were used, the overlying topography was flat to slightly inclined, and kriging efficiencies were greater than 90%.  The Inferred portion of the resource was defined where the drill spacing was still predominantly 80m by 80m but the topography was more undulating resulting in thinner and less continuous zones of mineralisation.			
	Internal audits have been completed by RUL which verified the technical inputs, methodology, parameters and results of the estimate.			

Rule 5.3

# **Appendix 5B**

# Mining exploration entity quarterly report

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

Name of entity

**Bauxite Resources Limited** 

L	
ABN	Quarter ended ("current quarter")
72 119 699 982	30 June 2012

# Consolidated statement of cash flows

		Current quarter	Year to date
Cash flows related to operating activities		\$A'000	(12 months)
			\$A'000
1.1 Receipts from product sales and related debtors		1,064	2,932
1.2	Payments for		
	(a) exploration and evaluation	(1,394)	(4,828)
	(b) development	(34)	(443)
	(c) production	(5)	(409)
	(d) administration	(1,214)	(4,615)
1.3	Dividends received	-	-
1.4	Interest and other items of a similar nature		
	received	1,082	2,733
1.5	Interest and other costs of finance paid	(2)	(2)
1.6	Income taxes paid	-	-
1.7	Other - GST refund/(paid)	(37)	(837)
	Net Operating Cash Flows	(540)	(5,470)
	Cash flows related to investing activities		
1.8	Payment for purchases of:		
	(a) prospects		
	(b) equity investments	(6)	(38)
	(c) other fixed assets	(126)	(309)
1.9	Proceeds from sale of:		
	(a) prospects		
	(b) equity investments		
	(c) other fixed assets	159	722
1.10	Loans to other entities	-	-
1.11	Loans repaid by other entities	-	-
1.12	Other (provide details if material)		
	Net investing cash flows	27	375
1.13	Total operating and investing cash flows		
	(carried forward)	(513)	(5,095)

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<sup>+</sup> See chapter 19 for defined terms.

# Appendix 5B Mining exploration entity quarterly report

1.13	Total operating and investing cash flows (brought		
	forward)	(513)	(5,095)
	Cash flows related to financing activities		
1.14	Proceeds from issues of shares, options, etc.	-	-
1.15	Proceeds from sale of forfeited shares	-	-
1.16	Proceeds from borrowings	-	-
1.17	Repayment of borrowings	-	-
1.18	Dividends paid	-	-
1.19	Other (capital raising costs)	-	-
	Net financing cash flows	-	-
	Net increase (decrease) in cash held	(513)	(5,095)
1.20	Cash at beginning of quarter/year to date	48,544	53,126
1.21	Exchange rate adjustments to item 1.20		
1.22	Cash at end of quarter	48,031	48,031

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

		Current quarter \$A'000
1.23	Aggregate amount of payments to the parties included in item 1.2	162
1.24	Aggregate amount of loans to the parties included in item 1.10	-

1.25 Explanation necessary for an understanding of the transactions

Item 1.23 includes aggregate amounts paid to directors including salary, director's fees and consulting fees.

## Non-cash financing and investing activities

2.1	Details of financing and investing transactions which have had a material effect on consolidated assets and liabilities but did not involve cash flows			
2.2	Details of outlays made by other entities to establish or increase their share in projects in which the reporting entity has an interest			

## Financing facilities available

Add notes as necessary for an understanding of the position.

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

<sup>+</sup> See chapter 19 for defined terms.

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## Estimated cash outflows for next quarter

4.1	Exploration and evaluation	\$A'000 (1,011)
4.2	Development	(50)
4.3	Production	-
4.4	Administration	(976)
	Total	(2,037)

## **Reconciliation of cash**

show	nciliation of cash at the end of the quarter (as in the consolidated statement of cash flows) to lated items in the accounts is as follows.	Current quarter \$A'000	Previous quarter \$A'000
5.1	Cash on hand and at bank	3,936	2,545
5.2	Deposits at call	44,095	45,999
5.3	Bank overdraft	-	-
5.4	Other (provide details)	-	-
	Total: cash at end of quarter (item 1.22)	48,031	48,544

# Changes in interests in mining tenements

6.1 Interests in mining tenements relinquished, reduced or lapsed

Tenement	Nature of interest	Interest at	Interest at
reference	(note (2))	beginning	end of
		of quarter	quarter
Nil			

6.2 Interests in mining tenements acquired or increased

E70/3618			
E70/3633			
E70/3644	100% of bauxite rights/	30%/100%	100%/100%
E70/3652	and 100% of other		
E70/3823	minerals		
E70/3824			
E70/3825			
E70/3828			
E70/3829			
E70/3831			
E70/3833			
E70/3834			
E70/3545	30% of bauxite rights/ and	0%	30%/100%
E70/3581	100% of other minerals		

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<sup>+</sup> See chapter 19 for defined terms.

# **Issued and quoted securities at end of current quarter**Description includes rate of interest and any redemption or conversion rights together with prices and dates.

		Total number	Number quoted	Issue price per security (see note 3) (cents)	Amount paid up per security (see note 3) (cents)
7.1	Preference			3) (conts)	(cents)
7.1	+securities				
	(description)				
7.2	Changes during				
7.2	quarter				
	(a) Increases				
	through issues				
	(b) Decreases				
	through returns				
	of capital, buy-				
	backs,				
	redemptions				
7.3	+Ordinary				
	securities	235,379,896	235,379,896		
7.4	Changes during				
	quarter				
	(a) Increases				
	through issues				
	(b) Decreases				
	through returns				
	of capital, buy-				
	backs				
7.5	+Convertible				
	debt securities				
	(description)				
7.6	Changes during				
	quarter				
	(a) Increases				
	through issues				
	(b) Decreases				
	through maturity				
7.7	conversion			E . D .	E : D :
7.7	Options	2,000,000		Exercise Price	Expiry Date
	(description and	3,000,000	-	40 cents	31/01/2016
	conversion	2,000,000 1,000,000	-	40 cents 20 cents	22/02/2016 30/01/2017
7.8	factor) Issued during	1,000,000	-	20 cents	30/01/2017
7.0	quarter		-		
7.9	Exercised during		-		
1.)	quarter		_		
7.10	Expired during	7,750,000	_	20 cents	31/05/2012
7.10	quarter	3,790,000	_	30 cents	30/06/2012
	dam tot	300,000	_	35 cents	30/06/2012
		230,000	_	50 cents	30/06/2012
		1,125,000	-	\$1.00	30/06/2012
7.11	Debentures	-,,		7-100	
7.10	(totals only)				
7.12	Unsecured				
	notes (totals				
	only)				
				I	

<sup>+</sup> See chapter 19 for defined terms.

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# **Compliance statement**

- This statement has been prepared under accounting policies which comply with accounting standards as defined in the Corporations Act or other standards acceptable to ASX (see note 4).
- 2 This statement does give a true and fair view of the matters disclosed.

Sign here: Date: 31 July 2012

Company secretary

Print name: Sam Middlemas

#### **Notes**

- The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity wanting to disclose additional information is encouraged to do so, in a note or notes attached to this report.
- The "Nature of interest" (items 6.1 and 6.2) includes options in respect of interests in mining tenements acquired, exercised or lapsed during the reporting period. If the entity is involved in a joint venture agreement and there are conditions precedent which will change its percentage interest in a mining tenement, it should disclose the change of percentage interest and conditions precedent in the list required for items 6.1 and 6.2.
- 3 **Issued and quoted securities** The issue price and amount paid up is not required in items 7.1 and 7.3 for fully paid securities.
- The definitions in, and provisions of, AASB 1022: Accounting for Extractive Industries and AASB 1026: Statement of Cash Flows apply to this report.
- Accounting Standards ASX will accept, for example, the use of International Accounting Standards for foreign entities. If the standards used do not address a topic, the Australian standard on that topic (if any) must be complied with.

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<sup>+</sup> See chapter 19 for defined terms.