

## SEPTEMBER 2011 QUARTERLY REPORT

### HIGHLIGHTS:

- **RESOURCE UPDATE**
  - 34% increase in total Bauxite resources to 33.4 Mt
  - Further resource updates expected in next quarter
  - 8 defined project areas
  - 51 tenements granted covering 13,000 km<sup>2</sup> over the Darling Range
- **LAND ACCESS AGREEMENTS INCREASED TO 352**
- **INTERNAL DRAFT SCOPING STUDY FOR JV ALUMINA REFINERY COMPLETED**
- **CASH IN BANK \$51.4 MILLION**



**BAUXITE**  
RESOURCES  
LIMITED

### COMPANY DETAILS

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#### ASX Code: BAU

BAU: 235m shares  
Market Cap \$35m (30 September 2011)  
Cash: \$51.4m (30 September 2011)

#### Directors:

<b>Barry Carbon (AM)</b>	Chairman
<b>Luke Atkins</b>	Director
<b>Ding Feng</b>	Director
<b>Scott Donaldson</b>	Chief Executive Officer & Executive Director
<b>Neil Lithgow</b>	Director
<b>Robert Nash</b>	Director
<b>John Sibly</b>	Director
<b>Yan Jitai</b>	Director
<b>Paul Fromson</b>	Chief Financial Officer & Company Secretary

### ANNUAL GENERAL MEETING

10.00am Friday 18 November 2011

Venue: Conference Room, The Garden Office Park  
355 Scarborough Beach Rd OSBORNE PARK WA 6017

## CORPORATE SUMMARY

### Share Price, Market Capitalisation and Cash Balance

The Company had \$51.4 million cash at 30 September 2011, and also holds approximately \$8 million in property, plant and equipment assets. Based on BRL's price of \$0.15 per share on 30 September 2011, the Company had a market capitalisation of \$35 million. This is a 30% discount to BRL's cash assets.

## PROJECT SUMMARY

### North Darling Range Total Resource Upgrade to 33.4Mt @ 41.1% Tot. $\text{Al}_2\text{O}_3$ , 30.2% Av. $\text{Al}_2\text{O}_3$ with 3.9% Re. $\text{SiO}_2$

During the quarter, a further resource upgrade increased BRL's ("the Company") total bauxite resource to 33.4 million tonne (Mt) at 41.1%  $\text{Al}_2\text{O}_3$  Total Alumina, 30.2%  $\text{Al}_2\text{O}_3$  Available Alumina with 3.9%  $\text{SiO}_2$  Reactive Silica. Resource modelling has been completed on recent drilling undertaken on the Cardea prospect that has produced a Maiden Inferred Resource of 6.4Mt, with a further 2.2Mt Maiden Inferred Resource for the Minerva prospect.

The Minerva area comes under the Bauxite Resource Joint Venture with Yankuang Resources Pty Ltd ("Yankuang"), with Bauxite Resources retaining a 30% bauxite interest and 100% of other minerals, while the Cardea prospect is subject to a Farm In and Joint Venture Agreement between Bauxite Resources and HD Mining & Investment Pty Ltd (Shandong Provincial Bureau of Geology and Mineral Resources) ("Shandong") where Shandong may earn up to a 60% interest in bauxite rights at the completion of certain milestones. Resource modelling for Minerva and Cardea has been conducted by Snowden Mining Industry Consultants Pty Ltd, and all results supersede previous resources announced by the Company.

The Cardea 3 resource, North East of Toodyay is currently being modelled. Drilling has confirmed that bauxite mineralisation between the Cardea 3 and Pomona deposits is in fact continuous and the Company has elected to rename these two deposits the Cardea 3 deposit. Modelling of this deposit is underway and will be completed in the December quarter.

### Exploration Program - Resources Upgrades for Coming Quarter

The Company continues to build on the robust resource base in the North Darling Range with two additional resource areas. Bauxite Resources now has eight geological resource areas in the North Darling Range region.

Drilling is ongoing across selected tenements within the 51 tenements granted to date in the Darling Range. Land access continues to be a major focus within exploration activities with 20 new agreements completed during the quarter bringing the total number of land access agreements throughout the Darling Range to 352.

With the inclusion of the Pomona deposit into the Cardea 3 resource model BRL now has eight separately identified bauxite deposits in the northern portion of its South-West Western Australian project area: Aurora, Rusina, Juturna, Cardea, Cardea 3, Minerva, Vallonia and Concordia. Of these, six maiden resources have been announced with further updates to resources expected at Rusina, Cardea 3 and Minerva in the December quarter. All resource areas are within the Bauxite Resources Joint Venture with Yankuang except Cardea and Cardea 3 which extends across a tenement boundary. These resources are a combination of both the Bauxite Resources Joint Venture with Yankuang Resources and of the Farm In and Joint Venture agreement with Shandong.

### Refinery Scoping Study - Bauxite Alumina Joint Ventures (BAJV)

In conjunction with the refinery scoping study that is underway, the Company is reviewing all resources for various cut-off grades with the objective of optimising the quality of potential refinery feed and Direct Shipping Ore (DSO) potential.



## EXPLORATION

### Overview

The Company's exploration program continued with 2,633 vacuum holes, for 15,211 metres drilled, mainly in the Toodyay and Williams regions, with a small amount of drilling in the Boyup Brook / Kojonup areas in the south later in the quarter.

Resources to date are primarily based upon drilling completed prior to the current quarter and the Company expects further resource updates over the next quarter.

Reconnaissance mapping in the Southern Darling Range has allowed preliminary preparation of Programs of Work for prospective zones on tenements under application to be prepared. These will be submitted to relevant government departments for approval immediately after tenement grant and completion of negotiations for access with landowners. The status of each program is constantly reviewed to allow a focused exploration strategy and optimisation of the exploration and land access resources.

### Additional Exploration Licences Obtained

BRL had six further tenements granted during the quarter. The total area covered by tenements, granted and under applications is approximately 24,000km<sup>2</sup> of this 55% or 13,113km<sup>2</sup> has been granted. The total number of Exploration Licence applications is 127 of which 56 are granted; 51 in the Darling Range (25 North Darling Range, 20 South Darling Range and 6 East Darling Range) with five in the Kimberley. Of the remaining 71 tenements in application; 61 tenements are located in the North, South and East Darling Range project areas, eight in the Kimberley project area and two in the Northern Territory project area. BRL is continually refining the land area held under tenement, prioritising areas for exploration and prospectivity selection. Of the granted Darling Range tenements 47 are associated with the Bauxite Alumina Joint Venture (BAJV) and 3 with the HD Mining & Investments Pty Ltd (Shandong) Joint Venture. The remainder are in the Kimberley exploration project.

### Exploration activities

Exploration work for the quarter continued to consist of target generation, surface mapping, drilling and securing land access agreements. Drilling commenced on three additional tenements during the quarter to give a total of 24 tenements where on ground exploration activities have taken place to date.

The Company is focusing exploration to meet its objectives of defining resources within the Darling Range to allow sound strategic and planning decisions to determine future options. BRL intends to continue to provide a wide coverage of ground with drill spacing determined by the laterite distribution and the requirement to provide bauxitic material for research on potential beneficiation and characteristics suitable for individual customers.

Drilling activities during the quarter were adjusted due to wet weather conditions. It was a testament to the geological team that drilling was able to continue with only minor interruptions during this period. The exploration program throughout the Darling Range is targeting sufficient bauxite mineralisation to support the undertaking of a prefeasibility study for a potential alumina refinery, with DSO grade bauxite identified at the same time.

**EXPLORATION Cont.****Exploration Program scheduled for December 2011 Quarter**

Work planned for the December quarter will focus on achieving access to priority targets in the southern region for the Bauxite Alumina Joint Venture with Yankuang and continued resource definition drilling in the Northern tenements within the Shandong Joint Venture area. A limited drilling program will be carried out in the eastern tenements to complete programs already commenced.

The exploration program for the December 2011 quarter will therefore consist of the following:

- Continued reconnaissance mapping, sampling and target generation of the Darling Range projects.
- Wide grid drilling of all targets in the Darling Range project areas as tenements are granted .
- Continued resource modelling of bauxite mineralisation previously defined by drilling.
- Focus and continued representation to government departments for approvals to allow commencement of surveys, mapping and drilling of specified Crown Land portions of tenements in the South Darling Range as tenements are granted

**North Darling Range**

A total of 1,757 holes for 14,031 metres were drilled during the quarter in the North Darling Range. BRL also continued land access negotiation for properties within the project area for drilling during the December quarter. Drilling concentrated on definition of bauxite mineralisation associated with the proposed mining area and identification of new zones of mineralisation associated with priorities in the Toodyay region.

**East Darling Range**

Drilling activities took place during the quarter with a total of 486 holes for 1247 metres drilled in the Williams region.

**South Darling Range**

A drilling program was undertaken in the Kojonup, Boyup Brook area during the quarter for 559 holes, for 1,390 metres. Continued reconnaissance and geological mapping of areas of other tenement grants has continued with prospective areas and properties identified for land access contact and agreements implementation. Consultation with Department of Mines and Petroleum (DMP), Department of Conservation and Environment (DEC) and other regulatory bodies continues to be a focus to obtain access and work cooperatively to ensure all exploration activities are fully explained and proceed in the most efficient manner for all stakeholders. Flora and dieback surveys continued on targeted areas to allow expedited access once other approvals are gained.

**Drilling Statistics for the September 2011 quarter**

Region / Joint Venture	Tenements (E70/___)	Holes	Metres
Total Drilling		2,802	16,667
North Project	3159, 3193, 3900, 4021, 3160	1,757	14,031
East Project	3179	486	1,247
South Project	3643, 3565, 3473	559	1,390
BAJV	3159,3193, 3900, 4021, 3643, 3565,	2275	15,192
HD Mining JV (Shandong)	3179	527	1,476

*BRL retains a 30% interest for bauxite rights in all the BAJV tenements, while HD Mining (Shandong) has an option to earn 60% of the bauxite rights within their JV tenements.*

**EXPLORATION Cont.****Land Access**

Land access continues to be a major focus within the exploration activities with 20 new agreements completed bringing the total number of land access agreements to 352 (150 NDR, 104 EDR and 98 SDR).

During the quarter, the land access focus turned to the southern region, with the geologists utilised during rig stand downs, due to wet weather, to evaluate the southern areas. The land access team significantly increased their workload, particularly in the south, due to the favourable position of tenements being granted regularly.

**Resource Modelling and Estimation**

Two resource estimates were released during the quarter – Cardea and Minerva. (Tables 1 and 2, page 7). These resources are within the Inferred Categories of the JORC Code. The resource was increased by 8.6Mt with the total resource, as indicated in the table below, now being 33.4 Mt with 7.0Mt Indicated and 26.5Mt Inferred. These resource updates supersede all previously reported resources for this area.

Resource modelling continues on the Cardea 3 prospect with further drilling and assay results completed. Further resource updates will be announced in the December quarter. A portion of Cardea 3 prospect is part of a joint venture between the BRL and Shandong No 1 Institute of Geology and Minerals Exploration's Australian subsidiary HD Mining & Investments Pty Ltd (Shandong). Under the terms of this joint venture, Shandong may earn a 60% interest in bauxite rights by expending 100% of the costs to define a geological resource and successfully complete a feasibility study.

Other prospects that have been drilled and are expected to have resources announced during the December quarter, include Concordia and Ceres. Additionally, further resource upgrades are anticipated.

All resources announced to date have been analysed using low temperature digestion that approximates the lower temperature Bayer process. The cut off grades used to produce the quoted resources are being reviewed and investigated to evaluate tonnages and grades available for potential DSO and beneficiation options.

**Total Bauxite Resource for the North Darling Range (August 2011)**

JORC Classification	Dry tonnes ('000,000)	Total Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	Bauxite Rights BAU
Indicated	7.0	43.5	33.0	3.1	30%
Inferred	20.1	40.4	29.6	4.2	30%
Inferred	6.4	41.8	29.3	4.3	See note 2
<b>Total (Ind. + Inf.)</b>	<b>33.4</b>	<b>41.1</b>	<b>30.2</b>	<b>3.9</b>	

Note1: Mineral Resources have been classified and reported in accordance with the JORC Code 2004

Note 2: Tenement E70/3160 is part of Bauxite Resources Agreement with HD Mining whereby HD Mining can earn a 60% interest.

**Table 1: Details of the Cardea Mineral Resource (August 2011)**

JORC Classification	Dry tonnes ('000,000)	Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	BAU Bauxite Rights
Inferred	6.4	41.8	29.3	4.3	100%

Note 1: 25% Available Al<sub>2</sub>O<sub>3</sub> cut off grade and dry density of 1.6 used

Note 2: Tenement E70/3160 is part of Bauxite Resources Agreement with HD Mining whereby HD Mining can earn a 60% interest.

**Table 2: Details of the Minerva Mineral Resource (August 2011)**

JORC Classification	Dry tonnes ('000,000)	Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	BAU Bauxite Rights
Inferred	2.2	38.7	28.9	3.9	30%

Note: 25% Available Al<sub>2</sub>O<sub>3</sub> cut off grade and dry density of 1.6 used

**Table 3: Details of the Aurora and Rusina Mineral Resources (April 2011)**

Resource	JORC Classification	Dry tonnes ('000,000)	Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	BAU Bauxite Rights
Aurora	Indicated	7.0	43.5	33.0	3.1	30%
Aurora	Inferred	4.4	41.3	30.2	4.0	30%
Rusina	Inferred	3.7	40.3	29.1	5.3	30%
Combined	Total (Ind. + Inf.)	15.1	42.1	31.2	3.9	30%

Note: 24% Available Al<sub>2</sub>O<sub>3</sub> cut off grade and dry density of 1.6 used

**Table 4: Details of the Juturna Mineral Resource (June 2011)**

JORC Classification	Dry tonnes ('000,000)	Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	BAU Bauxite Rights
Inferred	8.2	40.2	29.9	3.9	30%

**Table 5: Details of the Vallonia Mineral Resource (June 2011)**

JORC Classification	Dry tonnes ('000,000)	Al <sub>2</sub> O <sub>3</sub> (%)	Available Al <sub>2</sub> O <sub>3</sub> (%)	Reactive SiO <sub>2</sub> (%)	BAU Bauxite Rights
Inferred	1.5	36.6	28.0	3.9	30%

Note: 25% Available Al<sub>2</sub>O<sub>3</sub> cut off grade and dry density of 1.6 used

## EXPLORATION Cont.

### Kimberley Project

The Kimberley project is part of the Company's longer term business assessment and development. BRL completed an airborne geophysical survey program over the tenement areas during the quarter. This program and an initial assessment report of mineral potential were completed by external consultants late in the quarter and received by the Company for evaluation. Further work programs will be considered once this evaluation is completed late in the December quarter.

### Northern Territory

The Northern Territory project consists of two applications over bauxitic laterite outcrops. The Northern land Council (NLC) requested an extension of the negotiating period, which the Company has agreed to and the NLC will advise when they have arranged an "on country" meeting. It is presumed this will be during the next dry season from March to October 2012.

## OPERATIONS AND APPROVALS

### Bindoon Bauxite Mining Proposal

The Bindoon Bauxite Mining Proposal is being formally assessed by the Western Australian Environmental Protection Authority (EPA) at the Public Environmental Review (PER) level under the *Environmental Protection Act 1986*. Due to the potential to impact on matters of national significance, the Proposal will also require approval by the Commonwealth under the *Environmental Protection and Biodiversity Conservation Act 1999*. BRL has received confirmation that agreement has been reached between the Western Australian and Commonwealth agencies that a single process will be used to assess the Proposal. This will be the State PER process.

During the quarter, BRL consulted with regulatory agencies on the methodology of proposed technical investigations. Some of these are designed to gather seasonal baseline information on the existing environment and are underway. A number of other studies are near completion with a formal submission to the EPA expected in mid 2012.

### Alumina Refinery

A scoping study, Phase 1, for the development of the refinery has been completed during the quarter, the outcomes of this will determine prefeasibility study parameters. Phase 1 of the Bauxite Alumina Joint Venture Study consisted of establishing the Joint Venture company, forming a team of skilled staff and obtaining sufficient geological data in the northern tenement area to provide information for the refinery decision-making process. Further assay and resource modelling for the northern tenements utilising drilling program results already completed will be undertaken over the next three to six months.

Phase 2 of the Alumina Refinery study will focus on geological exploration moving to the southern tenements. With the internal draft refinery scoping study completed, a series of financial models have been developed and will contribute towards Phase 2 assessments. The main objective of Phase 2 geological studies will be to gain sufficient data in the southern areas to assess the relative merits of a refinery located in either the northern or southern areas.

The BAJV also commenced preliminary activities during the quarter to determine the potential locations for an alumina refinery. The results of these activities will be used alongside the scoping study to prepare a list of potential refinery locations for discussions with local stakeholders during the next six months. External engagement with local communities, interest groups and regulators will form a significant component to the success of the refinery proposal.

**OPERATIONS AND APPROVALS Cont.****Approvals for Exploration**

The Company has gained approval to conduct flora and dieback surveys in State Forests over several tenements in the South Darling Range area. The schedule is currently focused on completing the flora and dieback surveys in Ellis Creek 3 E70/3622 and E70/3575 to ensure the surveys are completed prior to the Department of Environment and Conservation's controlled burn scheduled for late October. These surveys will provide the necessary information for the Conservation Management Plans required by the Department of Environment and Conservation for approval to conduct exploration in State Forests.

The Company is in consultation with relevant indigenous groups and consultants with regards to the management of indigenous cultural heritage in these and other areas.

**OTHER MATTERS****Proposed Litigation Funder Action**

There have been no further developments on this issue.



**Paul Fromson - Company Secretary**

*In accordance with the Australian Stock Exchange requirements, the technical information contained in this report has been reviewed by Mr. Peter Senini, Manager Resource Development. The information in the report to which this statement is attached that relates to Exploration Results and Mineral Resources is based on information reviewed by Mr. Senini, who is a Member of the Australasian Institute of Geoscientist. 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 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 this information in the form and context in which it appears.*

## BAUXITE RESOURCES LTD - BACKGROUND & JOINT VENTURES

### Company Overview and Bauxite Business Strategy

BRL was floated in October 2007 with a strategy to capitalise on the bauxite resource found in the Darling Range, Western Australia. BRL's acquisition of 24,000 km<sup>2</sup> tenements in the Darling Range is part of its strategy to participate in the bauxite and alumina industries in Western Australia where four of the seven Australian alumina refineries are located. The bauxite found throughout the Darling Range is a gibbsite ore, an aluminium hydroxide requiring lower temperatures and lower pressures for alumina refining; these lower energy requirements represent considerable lower energy costs. These distinctive properties make Darling Range alumina refineries amongst the lowest cost producing operations in the world and the main reason behind the growing interest for Darling Range bauxite in the global market.

BRL has pursued both a short term and long term strategy in its development of a viable project in WA. The first activity was to establish a bauxite direct shipping ore (DSO) and other products operation. In late 2009/early 2010 the Company shipped approximately 128,000 tonnes in three separate shipments of high grade bauxite to China in a trial and is currently working through a community consultation process for a 2Mtpa operation north of Bindoon, WA. The North Bindoon project has been referred to the WA Environmental Protection Authority (EPA) which has assessed the proposal and nominated a Public Environmental Review (PER) level of assessment.

### Joint Venture Agreements

**Bauxite Resources Ltd and Yankuang Resources Pty Ltd, a wholly owned subsidiary of Yankuang Group (Yankuang) have formed a joint venture company, Bauxite Alumina Joint Ventures (BAJV), for a proposal to mine bauxite and potentially construct and operate an alumina refinery in Western Australia.**

BAJV have signed ten Detailed Agreements for the proposed refinery to produce a minimum of 1.1 million tonnes per annum (Mtpa) of alumina and refine ~3.5Mtpa of Darling Range bauxite. The proposed refinery is subject to a bankable feasibility study (BFS), site selection, all regulatory approvals and substantial commencement within five years of the agreement date.

Subject to all necessary approvals and a decision by the parties to proceed following completion of the Bankable Feasibility Study, Yankuang will pay 91% of the refinery construction cost and receive 70% of the alumina product. BRL will fund 9% of the refinery construction cost and receive 30% of the alumina product. Work towards site selection for the refinery has commenced and a target of establishing a resource of 60 million tonnes of refinery grade bauxite ore is set for 2011.

### **Bauxite Resources Ltd and Shandong No 1 Institute of Geology and Minerals Exploration (Shandong)**

BRL has a joint venture agreement with Shandong which covers 1,000<sup>2</sup> of tenement ground whereby Shandong may earn 60% of the bauxite rights by funding 100% of exploration costs to successful completion of a bankable feasibility study and decision to mine.

## JORC LIST OF ASSESSMENT AND REPORTING CRITERIA

### Sampling Techniques and Data

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	Bauxite Resources 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	Bauxite Resources 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 techniques and sample preparation	The entire vacuum samples for each 0.5 metres of drilling are collected into a calico bag at the drill site. 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	<p>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.</p> <p>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 and include blank samples in the field sample stream.</p>
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 an precision of $\pm 0.05$ 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 the average drill-hole spacing used to defined the Mineral Resources.
Data spacing and distribution	Bauxite Resources has drilled a variety of data 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	All data points for the resource estimate are vertical strings originating at the topography.

## JORC LIST OF ASSESSMENT AND REPORTING CRITERIA

### Estimation and Reporting of Mineral Resources

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.
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.
Dimensions	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 3.2 kilometres by 1.5 kilometres. The north pod has maximum extents in the order of 1.7 kilometres by 1.7 kilometres. The thickness of the main ore bearing zones in the south averages 2.5 metres and ranges from 0.3 metres to 8 metres while in the north the thickness averages 3.2 metres and ranges from 0.2 metres to 11.2 metres. The pods are near surface, flat lying and with average overburden thicknesses of 0.7 metres.  Vallonia, the resource was modelled as two discrete zones. The eastern zone has maximum extents in the order of 1 kilometre by 0.6 kilometres; the western zone has extents of 2.1 kilometres by 1.1 kilometres. The thickness of the main ore bearing zones averages 1.8 metres and ranges from 0.8 to 6 metres. The pods are near surface, flat lying and with average overburden thickness 0.6 metres.
Estimation and modelling techniques	Deposits 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 grades outside of the main ore 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 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.
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 percent moisture).
Cut-off parameters	The cut-off grade applied to both Juturna and Vallonia is a nominal 25 percent available alumina threshold derived from data measurements and/or regression estimates.
Mining factors and assumptions	Bauxite Resources and Snowden have 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 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	Bauxite Resources has classified the Mineral Resource estimates primarily on the basis of collar spacing with adjustments for data quality where considered appropriate. The Bauxite Resources Competent Person has reviewed and agrees with this approach. The Aurora estimate has been classified as Indicated Mineral Resource where the collar spacing is 40 metres 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.