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Bligh Resources Limited

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Bundarra JORC 2012 Mineral Resource Estimate

Highlights:

- Mineral Resource Estimate upgraded to JORC 2012
- 7.0Mt @ 1.9 g/t for 431,000 ounces Au (see Table 1 for classified breakdown)
- Mineral Resource estimates do not include recent high grade gold mineralisation reported by Bligh 14th December 2016
- Planning for extensional drilling to extend recent high grade drill intersections beneath Wonder North underway
- Open pit optimisation of the upgraded Mineral Resource underway, with results to be incorporated into current Feasibility Study

Bligh Resources Limited (ASX: BGH) ("Company") is pleased to announce an upgraded Mineral Resource estimated in accordance with JORC 2012 guidelines for its Bundarra Gold Project.

The Mineral Resource previously reported under the 2004 JORC code has undergone a review by resource specialists CSA Global Pty Ltd ('CSA') for reporting under the JORC 2012 requirements, with global resources of **7.0 MT @ 1.9 g/t Au for 431,000 oz,** at a 0.5 g/t Au cutoff.

This represents an important step for Bligh in preparation for the next phase of the exploration and development toward production at the Bundarra Project. A key result of the review is that there has been no material change to the Mineral Resource Estimate reported on 5 September 2013, and the Bligh is pleased to provide further detailed information in the Appendix of this announcement, reported in accordance with JORC 2012 as 'Table 1'.

The JORC 2012 estimate provides Bligh with the platform for the estimation of Ore Reserves as part of its ongoing Feasibility Studies into the development of mining operations, with the Company well positioned to advance its objective of becoming a gold producer at Bundarra.



Table 1: Bundarra Project Mineral Resources at 0.5 g/t Cut-off

Bundarra Project Mineral Resources, December 2016					
Deposit	Category	Volume	Tonnes	Au	Au
		'000 m ³	'000 t	g/t	'000 Oz
	Indicated	71	195	2.4	15
Celtic North	Inferred	387	1,060	2.0	69
	Total	458	1,254	2.1	84
	Indicated	35	78	2.1	5
Celtic South	Inferred	47	111	1.4	5
	Total	82	188	1.7	10
	Measured	17	39	3.0	4
Wonder West	Indicated	205	495	2.1	33
wonder west	Inferred	114	291	1.7	16
	Total	336	825	2.0	54
	Measured	142	339	2.1	22
Wonder North	Indicated	868	2,274	2.1	150
wonder north	Inferred	487	1,289	1.6	68
	Total	1,496	3,902	1.9	241
	Indicated	103	235	1.7	13
Blue Bush	Inferred	240	634	1.5	30
	Total	344	868	1.5	43
Total:		2,717	7,038	1.9	431

Notes:

- 1. Mineral Resources are based on JORC Code 2012 definitions.
- 2. A cut-off grade of 0.5 g/t gold has been applied.
- 3. Rows and columns may not add up exactly due to rounding.

The updated Mineral Resource estimate is based on 6,675 surface and grade control drill holes. The grade control drilling was carried out using nominal fan patterns of about $5m \times 5m$, and the pattern of exploration drilling is generally $25m \times 25m$, grading to a $50m \times 50m$ at depth.

Wireframe solids were generated based on the sectional interpretations to delineate the domains of gold grades by CSA. The lower cut-off grade of 0.5 g/t Au and grade composites were used to interpret the mineralised envelopes. A 1m composite data set for individual zones was used for geostatistical analysis and grade estimation. A block model was created using $5.0 \text{mE} \times 5.0 \text{mN} \times 5.0 \text{mRL}$ parent blocks. Multiple Indicated Kriging ('MIK') was used to estimate 3D blocks.



About the Bundarra Gold Project

The Bundarra Gold Project lies within the Norseman-Wiluna greenstone belt of the Archean Yilgarn Craton, approximately 60km north of Leonora in the Eastern Goldfields region of Western Australia. The Company has previously reported Mineral Resources (JORC 2004) across three deposits and a new exploration zone (Celtic, Wonder North, Wonder West and Bluebush).

The project tenement schedule consists of five Mining Leases, six Prospecting Licences and two Miscellaneous Licences for groundwater exploration and a future haulage route covering an area of 60.5km². To date, more than 3,000 holes have been drilled with an accumulated drill depth of more than 150,000m.

Competent Person Statement

The information in this report that relates to Mineral Resources is based on information compiled by Mr Steve Rose, who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Rose is a full-time employee of CSA Global Pty Ltd and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves". Mr Rose consents to the inclusion of such information in this report in the form and context in which it appears.



Appendix 1: JORC Table1

JORC Table 1 Section 1

Criteria	Commentary
Sampling techniques	Sampling methods undertaken at the Wonder North, Wonder West, Celtic, and Bluebush deposits (The Bundarra Gold Project) by previous Project owners have included aircore (AC), Rotary Air Blast (RAB), Reverse Circulation (RC), and Diamond Drillholes (DD).
	Bligh Resources has not carried out any sampling activities that are included as part of the Mineral Resource Estimate which is the subject of this Report.
	AC, RAB, RC and DD core drilling is assumed to have been completed by previous holders to industry standard at that time (1995 – 2010).
	Extensive RC and DD drilling completed by Sons of Gwalia Limited for the purposes of Resource Definition in the period from 2001 to 2002, involved a total preparation protocol of 1m samples (90% passing -75 μ m) in LM5 sample pulverisers. A 50g charge was fire assayed for Au only (LLD 10ppb).
Drilling techniques	Drilling activities at the Bundarra Gold Project consisted of AC, RAB, RC, and DD. Only RC and DD holes were considered in the preparation of this Mineral Resource estimate. Historical RC and DD drilling completed by Pacmin-Tarmoola (Mt Edon Gold Mines) pre-2001 used 5 ¾ inch face sampling hammers with an auxiliary booster. Drilling completed by Sons of Gwalia Limited 2001 - 2002 used a 5 ¾ inch DG50 face sampling hammer with an auxiliary booster. Diamond drilling at the Project was completed at NQ2/HQ3 core sizes.
Drill sample recovery	For RC Drilling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, drill sample recovery was only sporadically recorded and is not quantifiable in percentage terms as drill hole diameter, sample weights and splitting ratios were not recorded. It is unknown what, if any, measures were taken to ensure sample recovery and representivity. All of this drilling was recorded as dry. It is not possible to determine any relationship between between sample recovery and grade for this historical drilling.
	For RC drilling at the Wonder deposits which was carried out by Sons of Gwalia in the period 2001 to 2002, the RC drill sample recovery was systematically monitored over the 321265mE cross section (holes WNRC0096-WNRC0100). Site reject samples were weighed as were the laboratory split samples to produce a total recovered sample weight. This cross-section was down-hole surveyed with a natural gamma tool to provide in situ bulk densities and internal hole diameters for comparative analysis. Discrepancies were determined between measured and predicted recoveries within oxide weathered material which was attributed to air erosion and enlargement of hole diameter after drill penetration with lesser discrepancies within weathered and fresh material. No relationship between sample recovery and grade was determined over the course of this drill program.
Logging	Logging of diamond drill core, RAB and RC chips at both the Celtic and Wonder deposits record lithology, mineralogy, texture, mineralization, weathering, alteration and veining. Diamond drilling at both the Celtic and Wonder deposits was logged geo-technically. It is unknown if the diamond core was photographed.
	All drillholes completed by Pacmin / Mt Edon between 1992 and 2000, and by Sons of Gwalia between 2000 and 2002 appears to have been logged in full. Drilling by operators after this period was logged in full.
Sub-sampling techniques and sample preparation	The sample method for drill core was half core for completely to moderately weathered material and quarter core for weakly weathered to fresh material.
	For RC and RAB Drilling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, sample collection techniques were not recorded and are therefore unknown. All of this drilling was recorded as dry.
	For RC drilling at the Wonder deposits in the period 2001 to 2002, drill chip samples were collected at 1.0m intervals from the cyclone and split through a 1:8 multi-tier riffle splitter to approximately 3-5kg weight. Wet samples were isolated for on-site drying and later riffle splitting.
	The sample preparation of RC chips from both the Celtic and Wonder deposits was in accordance with industry best practice and conducted by a commercial laboratory involving oven drying, coarse crushing then total grinding to a size of 90% passing 75 microns.



Criteria	Commentary
	All subsampling activities were carried out by a commercial laboratory and are considered to be satisfactory.
	For sampling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, sample collection techniques such as field duplicates were not recorded and are therefore unknown. This sampling is assumed to have been carried out to industry standard at the time.
	For RC drilling at the Wonder deposits in the period 2001 to 2002, sixty six duplicate samples from 6 drill holes representing 2 oxide, 2 transitional, and 2 fresh ore zone intercepts were re-split in the field from the coarse reject sample and submitted to a commercial laboratory. This resampling was designed to evaluate the variability of gold grades within individual sample intervals. All samples were assayed after standard total preparation by 50g charge fire assay.
	Sample sizes are considered to be appropriate given the grainsize (90% passing 75 microns) of the material sampled.
Quality of assay data and laboratory tests	RC chip samples and grade control chip samples were analysed by external laboratories using a 50g fire assay with AAS finish. These methods are considered suitable for determining gold concentrations in rock and are total digest methods.
	Historic sampling includes fire assay, aqua regia, and atomic absorption spectroscopy.
	No geophysical tools have been utilized for reporting gold mineralization at the Bundarra Gold Project.
	For resource development RC and diamond drillhole drilling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, QA/QC procedures are not documented, however it is assumed that they were carried out to industry best practice at the time.
	For RC drilling at the Wonder deposits in the period 2001 to 2002, at the completion of each drillhole two mineralised composite samples followed by two blank samples were submitted as part of a systematic programme for monitoring sample preparation quality. The mineralised samples were generated from compositing drill cuttings from another prospect known to contain significant coarse gold and blended in a cement mixer prior to spear sampling. The blank samples were obtained from barren ppb detection level assayed RAB cuttings. Sample numbers for the control samples were in numeric order with the accompanying assay samples and of approximately the same weight and lithological appearance. This data (492 samples) when returned was reviewed and found to be of acceptable quality.
	Sample preparation checks for fineness were carried out by the commercial laboratory to ensure a grind size of 90% passing 75 microns and a control group of 66 re-split samples was forwarded to a second commercial laboratory to cross-check the degree of pulverization. The overall quality of sample diminution was reported as adequate.
	As part of the systematic campaign of quality control, 66 pulps from re-split samples were analyses by a second commercial laboratory with a good reconciliation of individual sample assays.
	The primary commercial laboratory performed a number of internal processes including standards, blanks, repeats and checks.
Verification of sampling and	Significant intercepts were reviewed and verified by senior geological personnel.
assaying	A program of check / twin RC drilling was carried at the Wonder North deposit to confirm the reliability of earlier RC drill results. The intersection widths were found to be near identical with similar gram/metre totals with minor differences attributed to small intervals of coarse gold/high grade gold.
	For resource development RC and diamond drillhole drilling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, primary data was recorded on paper logging sheets. This data was subsequently validated and entered into the Sons of Gwalia aQuire database.
	For RC drilling at the Wonder deposits in the period 2001 to 2002, all geological logs and assays were downloaded from HP Cassiopeia Palmtop loggers on a daily basis into a Micromine (Version 8.1) database for data compilation and validation. Once validated, collar, survey, geology, assay and down hold survey data was uploaded via aQuire (Version 3.1) into the main Sons of Gwalia Tarmoola Operations Oracle database.
	No adjustments were made to assay data. First gold assay is utilized for Mineral Resource estimation



Criteria	Commentary
Location of data points	For resource development RC and diamond drillhole drilling at the Celtic deposit between 1992 and 2000 by Pacmin / Mt Edon, surface survey control of drillhole collar positions is poorly documented. Where recorded, collar positions were surveyed either by by digital GPS, or by Electronic Distance Measurement (EDM) methods. From these programs, only diamond drill holes GRDD01-02 were down-hole surveyed using an Eastman single shot camera. Relative level for the Celtic project area was assumed as A.H.D., however there is no record of derivation. For resource development RC and diamond drillhole drilling at the Wonder deposits in the period 2001 to 2002 Fugro Survey Pty Ltd were contracted to layout the proposed drill collar sites and survey the completed drill collars. The surveying was undertaken utilizing a Real Time Kinematic (RTK) processing unit coordinated between two Trimble 4000 SSI receivers. The control point WN9003 was defined by GPS observations from DOLA sourced base station SSM LEN 64. The coordinate system is AMG with datum AGD 84 in Zone 51. This listing is based on the WGS84 Datum, using the WGS84 Ellipsoid. Heights are A.H.D. derived by applying Geoid Spheroid separation determined by AusGeoid 98 Digital model at the control point. In addition to surveying the completed RC drilling, 128 RC and diamond drill collars from previous exploration programs were also re-surveyed. All completed RC drillholes in this program were routinely down hole surveyed for azimuth and dip by Surtron Technologies using a Champ DEM ('Digital Electronic Measuring System').
Data spacing and distribution	Most of the surface exploration drilling is 20 by 20m, grade control drilling is 5 by 5 m.
Orientation of data in relation to geological structure	Both exploration and grade control drill holes have been drilled dominantly 60 degrees to the mineralized bodies. No relationship between mineralised structure and drilling orientation has biased the sample.
Sample security	Information on sample security measures has not been documented by previous operators
Audits or reviews	No evidence of external reviews or audits has been identified by Bligh Resources for the Bundarra Gold Project within the currently available dataset.

JORC Table 1 Section 2

Criteria	Commentary
Mineral tenement and land tenure status	The Bundarra Gold Project comprising the Celtic, Celtic South, Bluebush, Wonder North and Wonder West deposits is contained within Mining Leases M37/513, M37/514, M37/350, M37/488, and M37/638. The tenements are held 100% by SR Mining Pty Ltd, which is a subsidiary of Bligh Resources Limited.
	There are no caveats associated with the Mining Leases.
	There are no registered Aboriginal Heritage sites within the mining leases.
	All production is subject to a Western Australian state government NSR royalty of 2.5%.
	All production is subject to an NSR royalty of 1.5% attributable to International Royalty Corporation of Denver Colorado.
	No known impediment exists to obtaining a licence to operate and the tenements are all in good standing.
Exploration done by other parties	The earliest exploration completed over the Bundarra Gold Project was by Grimes Holdings in 1991 with the drilling of 97 vacuum holes to 14m depth. Mt Edon Gold Mines entered into a joint venture with Grimes in 1992 and commenced exploration which included soil sampling, RAB drilling, pit and costean mapping, RC drilling, and diamond hole drilling primarily over the Celtic deposit up until 1996. Following the takeover of Mt Edon by Pacmin in 1997, additional RC and diamond core drilling was completed at Celtic in 2000. The Celtic pit was mined by Pacmin between Nov 2000 and Nov 2001.
	The Wonder deposit area was identified from soil geochemistry and follow up RAB drilling in 1995, and subsequent RC drilling in 1996. Resource infill drilling was completed in 2000 and 2001, with mining at the Wonder, Wonder North, and Wonder West deposits carried out between May 2002 and February 2003, following the acquisition of Pacmin by Sons of Gwalia in October 2001.



Criteria	Commentary
	The Project was acquired by St Barbara Limited in 2005 from the administrators of Sons of Gwalia, who subsequently sold the Project to Terrain Minerals who completed airborne magnetics and RC drilling at the Celtic, Bluebush, and Wonder North deposits from 2006 to 2008.
	The Project was sold by Terrain to SR Mining in 2011.
Geology	Within the Celtic tenements there are multiple mafic roof pendants/xenoliths within the fractionated granite batholith. The intrusive is highly variable in composition, with individual phases occurring as irregular intercalations over a broad zone that forms the transitional margin of the batholith. The bases of the roof pendants have been "hybridised" by late stage metasomatic fluids from the granite.
	On a regional scale, gold mineralisation is structurally controlled and occurs in late stage, possibly reactivated west to northwest striking, steeply north dipping faults and shears. The mineralisation at Great Western however dips steeply south. The preferred host for mineralisation is highly oxidised, coarse grained granitoid that varies in composition from granodiorite, through tonalite to quartz diorite. The mineralisation has been preferentially deposited at the margins, or near marginal zones of the more mafic granitoids, close to their contacts with greenstones. Geochemical and/or competency contrasts between granite and lenses or xenoliths of more mafic lithologies are possible controls on localising mineralisation, and cross-cutting structures and local jogs in the strike and dip of the mineralised structures may also be important. Late stage quartz veining within the host rock is an essential element for mineralisation to be present; without quartz, mineralisation is only low grade.
	At Celtic, the mineralised structure dips steeply to moderately north, and carries silica-pyrite-carbonate-hematite alteration and quartz veining in mafic and hybrid mafic-granitoid hosts. Chlorite and leucoxene alteration may also be significant. The attitude of the roof pendant appears to control the orientation of the gold mineralised shoots within the shear zones.
Drillhole Information	Not relevant for the reporting of Mineral Resource estimates.
Data aggregation methods	Not relevant for the reporting of Mineral Resource estimates.
Relationship between mineralisation widths and intercept lengths	No exploration results are reported as part of this Mineral Resource estimate
Diagrams	Not relevant for the reporting of Mineral Resource estimates.
Balanced reporting	CSA Global believes that all results have been reported and comply with balanced reporting.
Other substantive exploration data	No other exploration data is considered material in the context of the Mineral Resource estimate which has been prepared. All relevant data has been described elsewhere in Section 1 and Section 3.
Further work	Planned exploration activities have not been communicated to CSA Global.

JORC Table 1 Section 3

Criteria	Commentary
Database integrity	The database is stored in MS Access software. Data used in the Mineral Resource estimate is sourced from a data base dump, provided in the form of an Excel or Acquire database. Relevant tables from the data base are exported to CSV format for import into Micromine software for use in the Mineral Resource estimate.
	Validation of the data import include checks for overlapping intervals, missing survey data, missing assay data, missing lithological data, and missing collars.
Site visits	No site visits have taken place at this point in time by the competent person. Given that there is no current site activity (drilling, mining etc) it was deemed that a site visit during the process would not provide significant value and not materially affect the outcome of any Mineral Resource estimate.



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Criteria	Commentary
Geological interpretation	The interpretation of the mineralised structures is based on current understanding of the deposit geology and gold grades.
	There is a reasonable level of confidence in the geological interpretation of main mineralised horizons traceable over a number of drill holes and drill sections.
	Drill hole intercepts with assay results and structural interpretations have formed basis for the geological interpretation.
	The interpretation of main gold mineralised envelopes forms the basis for the modelling. 0.5g/t Au was used as a cut off for gold envelopes.
Dimensions	The currently interpreted mineralised zones extend for:
	Wonder North: approximately 800 m along strike bearing roughly 125°
	Wonder West: approximately 470 m along strike bearing roughly 125°
	Celtic North: approximately 400 m along strike bearing roughly 130°
	Celtic South: approximately 215 m along strike bearing roughly 105°
	Blue Bush: approximately 250 m along strike bearing roughly 125°
	The average thickness of mineralised zones varies from 2 to 5 m with an average of 2-3 m, and the maximum depth is about 300 m from the surface.
Estimation and modelling techniques	Main economic element at the deposit is gold. Gold bodies were interpreted with the cut-off of 0.5g/t. Minimum interpreted thickness was 2m, maximum waste interval 2m. An extrapolation was made to the half of the average distance between drill holes within the section and the half of the distance between the drilling sections.
	All interpreted strings were wireframed, and then blank block model was created within the closed wireframe models. The model had 5x5x5m parent cells with sub-celling down to 1m.
	Wireframed mineralised models were used to code and domain samples, which were composited to 1m. All samples within each domain were analysed statistically to select cut-off grades for Multiple Indicated Kriging. 17 cut-offs were selected for the gold grades for each domain using histograms and probability plots. All thresholds were analysed for the number of samples and metal content and adjusted.
	Geostatistical analysis was completed for each domain using median indicator transformation of data.
	All mineralised bodies and all samples were flattened relative to the vertical (Wonder) or horizontal (Celtic) planes, and then Median Indicator Kriging (MIK) was used to estimate grades. Each modelled lens and domain was estimated individually without mixing of samples. No topcutting was carried out, but median values were applied for the upper bins in MIK.
	Estimation parameters used were:
	 Search pass 1: 2/3 of semivariogram ranges, minimum 3 samples, minimum 2 holes and maximum 16 samples Search pass 2: full semivariogram ranges, minimum 3 samples, minimum 2 holes and maximum 16 samples Search pass 3: 2 x semivariogram ranges, minimum 3 samples, minimum 1 hole and maximum 16 samples Search pass 4 and subsequent passes until all cells were informed: increment by semivariogram ranges, minimum 1 samples, minimum 1 hole and maximum 16 samples
Moisture	All tonnages are estimated on a dry basis.
Cut-off parameters	A cut-off grade of 0.5 g/t Au was used to report the Mineral Resources assuming mining using open pit.
Mining factors or assumptions	Mining is assumed to be by open cut methods.
Metallurgical factors or assumptions	No assumptions were made during Mineral Resource estimate.
Environmental factors or assumptions	No environmental factors or assumptions have been applied to the Mineral Resources.



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Criteria	Commentary
Bulk density	Bulk density is based on extensive mining history in the area. Average density values were assigned directly to the block model separately for various oxide zones. The values were:
	Wonder deposits: 1.55 t/m³ for the oxide zone, 2.14 t/m³ for the transition zone and 2.68 t/m³ for the fresh zone.
	Celtic deposits: 1.60 t/m³ for the lateritic zone, 2.00 t/m³ for the oxide zone, 2.40 t/m³ for the transition zone and 2.80 t/m³ for the fresh zone.
	Blue Bush deposit: 1.85 t/m³ for the oxide zone, 2.20 t/m³ for the transition zone and 2.68 t/m³ for the fresh zone.
Classification	Resource Classification is based on drill hole spacing, confidence in the geological interpretation and confidence in the assumptions used in the estimation. The following geostatistical criteria were used for classification:
	The classification was based on a visual evaluation of cross sections and drill density, and manual interpretation of resource categories. The interpreted boundaries between categories were wireframed and used to code the block models. The Measured category was assigned to the blocks that were immediately below the pit surfaces and based on 5x5 m grade control drilling. The Indicated category was assigned to the areas with reasonable continuity of mineralised lodes based on 20x20m exploration drilling. All other blocks were classified as Inferred.
	The Mineral Resource categories were downgraded for the Celtic zone due to the uncertainties related to the downhole survey quality.
	The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	The Mineral Resource estimate was reviewed internally by Serik Urbisinov, who is employed by CSA Global and is a competent resource geologist. He concluded that the procedures used to estimate and classify the Mineral Resource are appropriate.
Discussion of relative accuracy/ confidence	No production data is available for comparison with the Mineral Resource estimate.
	The Mineral Resource accuracy is communicated through the classification assigned to various parts of the deposit.
	The relative accuracy of the Mineral Resource estimate is reflected in the reporting of the Mineral Resource as per the guidelines of the JORC Code 2012 Edition.