

21 March 2019

# 90% INCREASE IN DIAMOND RESOURCE CARATS AT LULO

In-situ resource carats at Lulo increase to 80,400 at a modelled average price per carat of US\$1,420

Lucapa Diamond Company Limited (ASX: **LOM**) ("Lucapa" or "the Company") and its partners Empresa Nacional de Diamantes E.P. ("Endiama") and Rosas & Petalas are pleased to provide an updated JORC Classified Inferred Alluvial Diamond Resource for the Lulo diamond mine in Angola ("Lulo Diamond Resource").

The Lulo Diamond Resource was independently estimated and reconciled on a depletion and addition basis as at 31 December 2018 by external consultants Z Star Mineral Resource Consultants (Pty) Ltd ("Z Star") of Cape Town, South Africa, updating the previous Lulo Diamond Resource dated 31 May 2017 (Table 1).

The updated Lulo Diamond Resource was estimated after accounting for:

- 19 months of mining depletion at Lulo to 31 December 2018, during which time >30,000 carats of diamonds were recovered and sold for ~US\$62 million
- The definition of additional resources and improving knowledge on existing resource areas from an extensive ongoing resource-definition drilling and sampling program which included an additional 4,200 auger holes (36,000 metres drilled); and
- Diamond sales at prices above the previous resource estimate dated 31 May 2017

Notwithstanding the depletion of >30,000 carats from mining referred to above, the updated Lulo Diamond Resource contains a 90% increase of in-situ carats to 80,400.

This total equates to more than four times Lulo's production of 19,196 carats in calendar 2018, which was the fourth year of commercial production at the alluvial mine.

In addition, the average US\$ per carat value for Lulo diamonds modelled by Z Star in the updated Lulo Diamond Resource is US\$1,420 per carat, a 17% increase on the previous modelled estimate of US\$1,215 per carat.

Overall sales of Lulo diamonds to date total ~US\$141 million at an average price per carat of ~US\$2,100.

Lucapa Managing Director Stephen Wetherall said the updated Lulo Diamond Resource represented the results of another significant exploration workstream undertaken by the Lulo partners in parallel with the alluvial mining and kimberlite drilling and sampling programs.

"Together with the significant positive diamond marketing reforms introduced in Angola enabling producers like Lulo to achieve international market prices for their diamonds, the near doubling of insitu resource carats in the upgraded Lulo Diamond Resource supports the Lulo partners' plans to increase alluvial production in 2019," said Mr Wetherall.

As set out in the ASX announcement of 5 November 2018, the auger drilling program was successful in defining new alluvial sources of gravels in the flood plains (leziria areas) along the Cacuilo River valley within the Lulo concession. While exploration has continued in these extensive flood plain areas throughout Q1 2019, only the portion of alluvial gravels defined by drilling in these new areas up to 31 December 2018 has been included by Z Star in the updated Lulo Diamond Resource.

The resource-definition auger drilling program will continue at Lulo throughout 2019, with exploration targets of 250,000 - 300,000 bank cubic metres of alluvial gravels having already been identified.



Resource-definition auger drilling at Lulo

	LULO CLASSIFIED INFERRED DIAMOND RESOURCE - 31 December 2018							
	LOM - 40% attributable							
Inferred	Area (m²)	In-situ volume (m³)	Grade (stns/m³)	cts/stn	Stones	Carats	In-situ grade (cphm³)	Modelled value (US\$/ct)
31 Dec 18	1,313,900	454,400	0.15	1.14	70,400	80,400	17.70	US\$1,420
31 May 17	1,158,100	603,700	0.06	1.13	37,370	42,200	6.99	US\$1,215
Notes:	Notes:							
(i) Cphm <sup>3</sup> : c	(i) Cphm <sup>3</sup> : carats per 100 cubic metres; Stns/m <sup>3</sup> : stones per cubic metre							
(ii) Average realised sales may be significantly higher in value than the modelled values shown above								
(iii) Bottom screen size: effective 1.5mm								
(iv) Undiluted	d grade at 31 [	December 20°	18. Diluted gr	ade at 31 Ma	y 2017			

Table 1: Lulo Classified Inferred Alluvial Diamond Resource

Notes: The estimation methodology has been changed by Z Star, compared to 31 May 2017, as a result of information derived from the extensive auger drilling program. Diamond quantities have been estimated utilising diamond recoveries per unit area, as opposed to a volumetric grade. Gravel volume is calculated from the gravel area and gravel thickness determined by auger drilling. This has allowed elimination of the impact of normal mining dilution and variable bulking factors from the grade estimate, giving an improved estimate of in-situ resources. Consequently, this has increased the estimated grade for the available gravel.

Mining dilution is a necessary part of the mining process, ensuring that all potentially diamondiferous material is recovered from the thin gravel beds making up the majority of the deposits at Lulo. This ensures all the Lulo Specials (>10.8 carat stones), which have been achieving average sales values of >US\$100,000 per stone, are recovered by mining for processing.

Production grades are based on treated volumes inclusive of the required mining dilution, not in-situ volumes. The quantity of dilution has been estimated by Z Star, based on historical mining production data, and an Inferred, Diluted Diamond Resource is shown below in Table 2.

Inferred Diluted Resource	Area (m²)	In-situ Volume inc. dilution (m³)	Stones	Carats	Diluted grade (cphm³)	Modelled value (US\$/ct)
31 Dec 18	1,313,900	1,132,700	70,400	80,400	7.10	US\$1,420

Table 2: Estimated Lulo Inferred Diluted Alluvial Diamond Resource

For and on behalf of the Lucapa Board.

#### STEPHEN WETHERALL MANAGING DIRECTOR

#### **ABOUT LUCAPA**

Lucapa is a growing diamond company with high-value mines in Angola and Lesotho, along with exploration projects in Angola, Australia and Botswana. Lucapa's vision is to become a leading producer of large and premium-quality diamonds – both from alluvial and kimberlite sources – in Africa and other known diamond provinces around the world.

The Company's focus on high-value diamond production is designed to protect cash flows in a sector of the diamond market where demand and prices remain robust.

Lucapa's flagship asset is the Lulo Diamond Project in Angola, which is a prolific producer of large and premium-value alluvial diamonds. Lulo has produced 12 +100ct diamonds to date and is the highest US\$ per carat alluvial diamond production in the world. Lucapa and its Lulo partners continue to advance their search for the primary kimberlite sources of these exceptional alluvial gems through a systematic drilling and exploration program.

Lucapa commenced commercial diamond recoveries in January 2019 at the Company's second highvalue mine, the 1.1Mtpa Mothae kimberlite project in diamond-rich Lesotho, and has already recovered four +50 carat diamonds in its own sampling and commercial mining operations.

Lucapa also has early stage exploration projects at Brooking in Western Australia and Orapa Area F in Botswana.

Lucapa's Board and management team have decades of diamond industry experience across the globe with companies including De Beers and Gem Diamonds.

#### **Competent Person's Statement**

Information included in this report on the Lulo Inferred Alluvial Diamond Resource is based on and fairly represents information and supporting documentation prepared, compiled and supervised by Richard Price MAusIMM, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Price is an employee of Lucapa Diamond Company Limited. Mr. Price 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 2012 Edition of the Joint Ore Reserves Committee (JORC) Code. Mr. Price consents to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

Information included in this report that relates to the stone frequency, grade and size frequency valuation and validation in the alluvial resource estimate is based on and fairly represents information and supporting documentation prepared and compiled by Sean Duggan (Pri.Sci.Nat 400035/01) and David Bush (Pri.Sci.Nat 400071/00). Messers. Duggan and Bush are directors and employees of Z Star Mineral Resource Consultants (Pty) Ltd, of Cape Town, South Africa. Both hold qualifications and experience such that both qualify as members of a Recognised Overseas Professional Organisation (ROPO) under relevant ASX listing rules. Mr. Duggan and Mr. Bush have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Code. Both Mr. Duggan and Mr. Bush consent to the inclusion in the announcement of the matters based on this information in the form and context in which it appears.

#### **Forward Looking Statements**

This announcement has been prepared by the Company. This document contains background information about the Company and its related entities current at the date of this announcement. This is in summary form and does not purport to be all inclusive or complete.

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Any forward-looking statements in this announcement speak only at the date of issue of this announcement. Subject to any continuing obligations under applicable law and ASX Listing Rules, the Company does not undertake any obligation to update or revise any information.

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### Appendix 1 Reporting of diamond exploration results and diamond resource estimates for the Lulo Project – JORC Code (2012) requirements – <u>Table 1</u>

### Depleted, Inferred alluvial diamond resource as at 31 December 2018 Sampling Techniques and Data

Criteria	JORC Code Explanation	Lucapa Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.) These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul> <li>Bulk sample results were reported to JORC 2012. The bulk samples were collected from surface excavations using an excavator and trucks. For alluvial samples overburden of Kalahari sand and alluvial sand and silt were stripped and basal alluvial gravel exposed. The gravels together with some underlying basement material (&lt;30cm) was excavated.</li> <li>Most data were derived from well controlled mining production areas, with material from each mining area extracted, stockpiled and treated through the production plant separately.</li> <li>The information used in the resource estimate is from large scale mining of the deposit it represents and is believed to be representative of each gravel deposit reported.</li> <li>Diamonds occur in very low concentrations in most lithologies. They also occur as discrete crystal particles and these must be physically separated and recovered to determine grade. Individual diamonds are unique and their value depends on factors including size, shape, colour and clarity. Large samples (tens to hundreds of tonnes) are required to identify the presence of commercial diamonds. Samples in the order of tens to hundreds of thousands of tonnes are required to establish reliable grade and value for diamond deposits.</li> </ul>
Drilling techniques	• Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face- sampling bit or other type, whether core is oriented and if so, by what method, etc.).	<ul> <li>Drilling using Sedidrill and Hotline auger drill rigs has been used to supplement pitting to map the location and thickness of the gravels.</li> <li>The auger drills use 4" (100mm) and 6" (150mm) diameter augers.</li> </ul>
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may</li> </ul>	<ul> <li>Material is recovered from the auger flights and used to measure depth and thickness of the gravels.</li> <li>The drilling is used to measure gravel thickness only. No grade measurements are made from this data.</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
	have occurred due to preferential loss/gain of fine/coarse material.	
Logging	<ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral</li> <li>Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul> <li>Drilled material is recovered from the auger flights and used to measure depth and thickness of the gravels.</li> <li>Sample pits are lithologically logged and measured to determine volumes.</li> <li>Logging is semi-quantitative with edge thicknesses measured of the entire pit. Pits are photographed, but the photography is not systematic.</li> <li>All excavated faces of the bulk sample pits are logged. Mining production faces are not systematically logged due to safety considerations.</li> </ul>
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all subsampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>Not core. No sub-samples are taken. All gravel excavated from pits is processed to recover diamonds.</li> <li>Most of the bulk samples are excavated wet and all gravel is taken.</li> <li>The sampling and sample preparation are identical to those that are used for mining and are considered appropriate for this type of sampling.</li> <li>Samples are disaggregated and washed through a scrubber. The process is identical to that which would be used for mining and results are considered representative.</li> <li>Most data were derived from well controlled mining production areas with material from each mining area extracted, stockpiled and treated through the production plant separately.</li> <li>The large effective sample size is appropriate for the material being sampled.</li> </ul>
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul> <li>Samples are processed through a production Dense Media Separation (DMS) plant. Recovery in the size fractions used on the plant is considered total.</li> <li>Samples are processed through the Company's DMS Plant, with an XRT coarse recovery stream (since Dec 2016), to produce a concentrate. Diamonds are recovered from the DMS concentrate using a Flowsort x-ray sorting machine followed by visual sorting.</li> <li>DMS efficiency is monitored using density beads.</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul> <li>No verification of sample data at an independent facility has been undertaken due to the very large size of the samples.</li> <li>The data used is derived from mining production. Mining areas are determined using differential GPS and geolocated drone imagery. Recovered stones are individually documented and weighed in the secure recovery building.</li> <li>No data twinning is possible due to the type of data used.</li> <li>Entry of primary data has been checked and loaded into a sampling and production spreadsheet.</li> <li>Assay data are not adjusted.</li> </ul>
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Sample and drill sites are located using a differential GPS with an accuracy of &lt;5cm.</li> <li>Production areas are measured using geolocated drone images.</li> <li>The grid system is WGS84 Zone 34L</li> <li>Topographic control uses Digital Terrain Models collected during aeromagnetic surveys.</li> <li>See Appendix 2 for location of mining blocks.</li> </ul>
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>Data used in this report comes from individual pits where all the material from that pit has been or will be processed and from contiguous mining production blocks.</li> <li>The pit spacing is currently related to exploration and is appropriate for Diamond Resource estimation in deposits of this type.</li> <li>Sample compositing has not been applied.</li> <li>Auger drill spacing has ranged typically between 10 and 50m across channels and 50-100m along channels depending on the stage of drilling and the channel properties.</li> </ul>
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>The bulk samples are considered spot samples within an alluvial body.</li> <li>Close spaced drilling is located in lines across the main channel orientations.</li> <li>Insufficient data exists to determine whether sample bias is present but given the nature of the body, bias is considered unlikely. Independent review opines the bulk samples and production data are considered representative.</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
Sample security	• The measures taken to ensure sample security.	<ul> <li>Sample stockpiles are located near the company's processing facility and are guarded by armed security personnel at all times.</li> <li>Security of processing and diamond recovery is monitored by company and Angolan State Diamond Security personnel.</li> </ul>
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul> <li>The sampling techniques are industry standard and audits or reviews have been undertaken to validate the data used for estimating the Diamond Resource.</li> </ul>

## Reporting of Exploration Results

Criteria	JORC Code Explanation	Lucapa Commentary
Mineral tenement and land tenure status	<ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	<ul> <li>The 1994 legislation covering the Angolan diamond industry stipulates that only Endiama (Empresa Nacional de Diamantes de Angola, the State Diamond Company) or joint ventures with Endiama, can hold diamond mining rights awarded by the Council of Ministers.</li> <li>Under the terms of the Lulo Joint Venture Association Agreements, separate titles are granted for alluvial and kimberlite mining. The exploration for both alluvials and kimberlites on the Lulo Concession is a requirement under the Act.</li> <li>The Angolan Government Gazette, dated 24 December 2007, authorized the formation of a Joint Venture for the purpose of prospecting, evaluation and mining of secondary (alluvial) diamond deposits. These rights were granted for a maximum period of five years. Should the Joint Venture wish to extend the agreement beyond five years, then 50% of the Concession would be relinquished. The equity distribution is: Endiama 32%, Lucapa Diamond Company Ltd 40%, Rosas e Petalas S.A. 28%.</li> <li>In May 2014, the authorization for the kimberlite exploration and mining was gazetted and equity distribution in this is Endiama 51%, Lucapa Diamond Company Ltd 39%*, Rosas e Petalas S.A. 19% (*This interest will be reduced to 30% after recoupment of the investment).</li> <li>A new kimberlite licence was awarded by the Angolan Ministry of</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
		<ul> <li>Mines on 15 November 2016; a new Mineral Investment Contract was subsequently gazetted and expires 30 April 2023.</li> <li>The 10-year alluvial mining licence was signed end July 2015 creating "Sociedade Mineira Do Lulo, LDA.", an Angolan incorporated company with which Lucapa Diamond Company Ltd has a 40% beneficial interest. This entity was incorporated in Angola in May 2016.</li> </ul>
Exploration done by other parties	• Acknowledgment and appraisal of exploration by other parties.	<ul> <li>Limited exploration has been undertaken by state-controlled entities and joint ventures Diamang and Condiama.</li> <li>Parts of the area have been exploited by artisanal miners – no records of this work are available.</li> </ul>
Geology	• Deposit type, geological setting and style of mineralisation.	<ul> <li>Significant diamond bearing alluvial systems, of Mesozoic to Recent ages overlie a major, but relatively poorly explored, kimberlite field. The kimberlite pipes intrude flat-lying Karoo sediments within the Lucapa Graben. The kimberlite field is believed to be the source of the alluvial diamonds.</li> </ul>
Drill hole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:         <ul> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level - elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth hole length.</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul> </li> </ul>	<ul> <li>A large program of auger drilling for gravel mapping has taken place to define the extent of the gravels and measure the gravel thickness. Approximately 4200 additional auger holes comprising &gt;36km of drilling has been used to extend the Diamond Resource. These are considered "grade-control" in nature and are therefore not presented individually.</li> <li>The sample pits are surface excavations and other data required in the code is not material and its exclusion does not detract from the understanding of the report.</li> <li>Bulk sampling and production results were included in the resource estimate.</li> <li>No material information has been excluded.</li> </ul>
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths</li> </ul>	<ul> <li>ArcGIS<sup>™</sup> is utilised to delineate gravel bodies within numerous blocks at Lulo that are defined by the current operations rather than being geological domains. The estimated gravel volumes and therefore tonnages are derived from polygons</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
	of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. • The assumptions used for any reporting of metal equivalent values should be clearly stated.	<ul> <li>that define the gravel bodies and are used to block the deposit (100m x 100m) and estimate the associated gravel thickness. Local block estimation (Ordinary kriging and moving average methods) was used to estimate the gravel thickness of the diamond resource blocks. The estimated grade (sphm<sup>2</sup>) and average stone size (cts/stn) are determined using all available diamond data within each block; these are predominantly mining results.</li> <li>The modelling of appropriate SFDs and assortments for revenue estimation was also undertaken for the resource polygons.</li> <li>The resource is reported as an undiluted in-situ resource, however estimates of potential mining dilution have been included in the report, based on analysis of historical data, to allow comparison with previous estimates.</li> <li>No short or long length aggregation applicable.</li> <li>No metal equivalent values are used.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</li> </ul>	<ul> <li>Results quoted are from surface pits. For the alluvial sample, the entire gravel horizon was sampled inclusive of necessary dilution for recovery of the entire gravel horizon.</li> <li>The data observed from the auger holes appears largely congruent with those seen in pits and mining faces.</li> </ul>
Diagrams	• Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	<ul> <li>Appropriate map and plans for the reported mineralisation with scale and north points are included as Appendix 2.</li> </ul>
Balanced reporting	• Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Results reported are complete.
Other substantive exploration data	• Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	• The data from the auger drilling program has allowed the definition of alluvial channels, which have been followed by mining production.

Criteria	JORC Code Explanation	Lucapa Commentary
`Further work	<ul> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Further excavation and processing of material from the length of the Cacuilo River valley and its major tributaries is planned and ongoing results will be reported on completion.</li> </ul>

Criteria	JORC Code explanation	Lucapa Commentary
Database integrity	<ul> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> <li>Data validation procedures used.</li> </ul>	<ul> <li>Data, in particular diamond quantity, assortment &amp; size frequency distribution (SFD) and value, have been cross checked between different CP's.</li> <li>The bulk sampling dataset is small compared to other forms of exploration data.</li> <li>Verified production data has formed the bulk of the information used for the resource estimate.</li> <li>Checks of auger drilling intercept data has been carried out.</li> <li>External data validation has occurred.</li> </ul>
Site visits	<ul> <li>Comment on any site visits undertaken by the Competent Person and the outcome of those visits.</li> <li>If no site visits have been undertaken indicate why this is the case.</li> </ul>	<ul> <li>Site visits by the Author of the resource report Competent Person were undertaken in January 2015 and August 2018.</li> </ul>
Geological interpretation	<ul> <li>Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.</li> <li>Nature of the data used and of any assumptions made.</li> <li>The effect, if any, of alternative interpretations on Mineral Resource estimation.</li> <li>The use of geology in guiding and controlling Mineral Resource estimation.</li> <li>The factors affecting continuity both of grade and geology.</li> </ul>	<ul> <li>Geology has been mapped in mining faces and bulk sample pits and gravel thicknesses are estimated from separate systematically excavated pits and auger drill holes surrounding the production areas and bulk sample sites.</li> <li>Definition of the gravel deposit extents has largely been based on the auger drilling program. Gravel extent outlines have been interpreted by the onsite geological team, based on positive gravel intersections in the auger holes, combined with observed gravel intersections in mining faces.</li> <li>Geostatistical methods have been applied to the estimation of gravel thickness only.</li> <li>Gravel thickness, stones per square meter and average diamond stone size are the controlling factors in guiding the Diamond Resource estimate.</li> <li>Sedimentary gravel facies (types) and contacts affect both the grade and</li> </ul>

### **Estimation and Reporting of Mineral Resources**

Criteria	JORC Code explanation	Lucapa Commentary
		continuity of the diamondiferous gravel zones.
Dimensions	• The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.	• Each gravel zone is delineated in plan from positive gravel intersections in the auger holes, pits and mining faces to determine lateral extent. Gravel thickness are measured directly from auger holes and pits.
Estimation and modelling techniques	<ul> <li>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</li> <li>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</li> <li>The assumptions made regarding recovery of by-products.</li> <li>Estimation of deleterious elements or other non-grade variables of economic significance (e.g. sulphur for acid mine drainage characterisation).</li> <li>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</li> <li>Any assumptions about correlation between variables.</li> <li>Description of how the geological interpretation was used to control the resource estimates.</li> <li>Discussion of basis for using or not using grade cutting or capping.</li> <li>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</li> </ul>	<ul> <li>The data required for this estimation study include:         <ul> <li>Shape files defining the area of each gravel body (2017 and 2019 updates)</li> <li>Auger drilling and pit data to enable an estimate to be made of gravel thickness in each gravel body</li> <li>A measure of density (global)</li> <li>Polygons defining mining areas</li> <li>Diamond data (sourced from bulk sampling and mining) to enable an estimate of stone density (sphm<sup>2</sup>) and average stone size (cts/stn) for each gravel body.</li> </ul> </li> <li>Estimation of gravel thickness and variability as well as recovered stones per cubic metre are the standard industry methods for alluvial diamond estimation.</li> <li>Once dilution estimates are included the estimates compare well with production recoveries.</li> <li>There are no by-products.</li> <li>Block model interpolation is applied to gravel thickness only, in blocks where data is sufficient to support this.</li> <li>Geology is assumed to be continuous across the separate gravel /conglomerate horizons as demonstrated by adjacent pits either hand dug or excavated.</li> <li>The planar and vertical distribution of gravels controls the geological extent of the Diamond Resource estimate.</li> <li>Reconciliation is the primary method of validation, the bulk samples and zone estimates are reconciled against mining production. Recovered average stone size is reconciled against bulk sampled</li> </ul>

Criteria	JORC Code explanation	Lucapa Commentary
Moisture	<ul> <li>Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.</li> </ul>	<ul> <li>stone size and grade (stones/cubic metre) as well as in-situ volume are the reconciled factors.</li> <li>Grade capping is not an applicable concept.</li> <li>The diamond resource is estimated as an in-situ resource.</li> <li>Mining dilution is a necessary part of the mining process, ensuring that all potentially diamondiferous material is recovered from the thin gravel beds making up the majority of the deposits at Lulo. This allows all the Special diamonds (valued &gt; \$US100,000 per stone &gt;10.8 carats) to be recovered for processing. Production grades are based on treated volumes inclusive of the mining dilution, not in-situ volumes. The quantity of dilution has been estimated by Z Star, using historical mining production data and applied to each mining block based on the estimated gravel thickness.</li> <li>The Diamond Resource estimate does take account of mining production data.</li> <li>Estimates are of bulked or in-situ cubic meters to negate the effect of moisture.</li> <li>Global density of 2.11 was applied to</li> </ul>
		the gravel volume in all estimation areas.
Cut-off parameters	<ul> <li>The basis of the adopted cut-off grade(s) or quality parameters applied.</li> </ul>	Refer to diamond section below.
Mining factors or assumptions	• Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	<ul> <li>Mining dilution is a necessary part of the mining process, ensuring that all potentially diamondiferous material is recovered from the thin gravel beds making up the majority of the deposits at Lulo. This allows all the Special diamonds (valued &gt; \$US100,000 per stone &gt;10.8 carats) to be recovered for processing. Production grades are based on treated volumes inclusive of the mining dilution, not in-situ volumes. The quantity of dilution has been estimated by Z Star, using historical mining production data and applied to each mining block based on the estimated gravel thickness.</li> </ul>
Metallurgical factors or assumptions	• The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for	• The production plant has been the sampling plant since late 2013. The same metallurgical factors i.e. bottom screen size, apply to

Criteria	JORC Code explanation	Lucapa Commentary
	eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	sampling and production. An XRT diamond recovery unit was added in December 2016.
Environmental factors or assumptions	• Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a Greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.	<ul> <li>Mining is underway, with continuous rehabilitation of mining areas taking place.</li> <li>Reasonable prospects for eventual economic extraction are based on results to date.</li> <li>The Diamond Resource is under actual extraction.</li> </ul>
Bulk density	<ul> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc.), moisture and differences between rock and alteration zones within the deposit.</li> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>	<ul> <li>Bulk density measurements were performed using the Archimedes method.</li> <li>Alluvial estimation methods use volume, not density as industry practice.</li> <li>The methods applied are industry practice.</li> <li>Bulk density is not assumed but measured.</li> <li>The key resource parameters are calculated as grade per unit volume.</li> </ul>
Classification	<ul> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> <li>Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>	<ul> <li>Classification was based on numerous factors including;         <ul> <li>Modelled assortment,</li> <li>Modelled size frequency distribution,</li> <li>Number of samples,</li> <li>Geological continuity,</li> <li>Mining reconciliation.</li> <li>The amount of carats and stones recovered so far and values obtained in commercial sales by tender.</li> </ul> </li> <li>The resultant Diamond Resource estimation reflects the Competent Person's view of the deposit and is classified as "Inferred".</li> </ul>

Criteria	JORC Code explanation	Lucapa Commentary
Audits or reviews	• The results of any audits or reviews of Mineral Resource estimates.	<ul> <li>The Lulo Classified Inferred Diamond Resource has been independently estimated and reconciled by external consultants, Z Star Mineral Resource Consultants (Pty) Ltd, of Cape Town, South Africa (Z Star). It was internally reviewed by an internal second competent person, (Dr J. A. Grills, Pr.Sci. Nat.) and by the Lucapa Competent Person (Mr R Price, MAusIMM).</li> </ul>
Discussion of relative accuracy/ confidence	<ul> <li>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</li> <li>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</li> <li>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</li> </ul>	<ul> <li>The Diamond Resource estimate is based on extensive exploration and production information.</li> <li>Geostatistical methods have been applied to estimates of gravel thickness but not to any other variable. The Lulo Classified Inferred Diamond Resource has been independently estimated and reconciled by external consultants, Z Star Mineral Resource Consultants (Pty) Ltd, of Cape Town, South Africa (Z Star).</li> <li>Both recovered stone size and grade (as stones per cubic metre) reconcile well within an inferred resource classification when compared to production values.</li> <li>The Diamond Resource estimates are not global, but zonal within district gravel zones, as reported. Gravel thicknesses have been estimated into 100m x 100m local blocks.</li> </ul>

## Estimation and Reporting of Diamonds and Other Gemstones

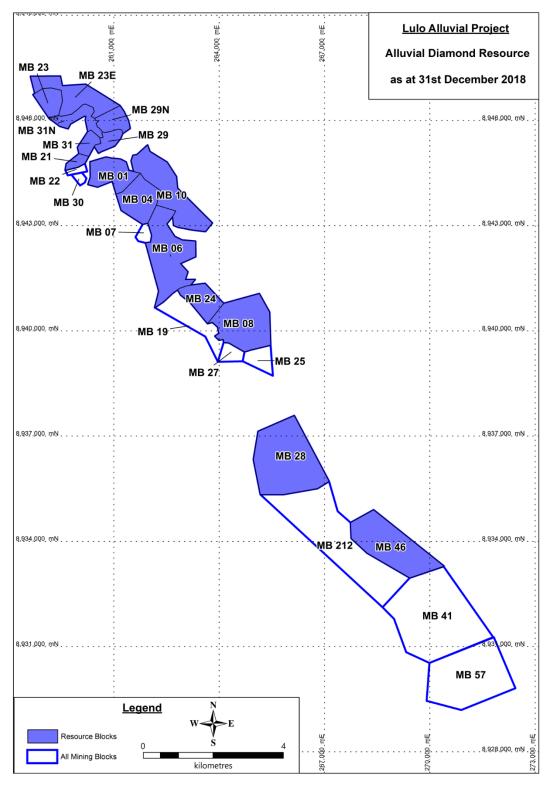
Criteria	JORC Code Explanation	Lucapa Commentary
Indicator minerals	<ul> <li>Reports of indicator minerals, such as chemically/physically distinctive garnet, ilmenite, chrome spinel and chrome diopside, should be prepared by a suitably qualified laboratory.</li> </ul>	<ul> <li>Indicator grains are not relevant to alluvial grade estimates.</li> </ul>
Source of diamonds	• Details of the form, shape, size and colour of the diamonds and the nature of the source of diamonds (primary or secondary) including the rock type and geological environment.	<ul> <li>The diamonds reported have a variety of sizes, shapes and colours. The diamonds were recovered from alluvial gravels in the Cacuilo River valley. At Lulo the primary, kimberlitic source of the diamonds are believed to be kimberlites located within the Lulo Concession.</li> </ul>
		<ul> <li>Secondary diamonds are believed to be sourced from nearby sub-cropping kimberlite intrusions which have been eroded and have shed diamonds into</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
		elevated terraces and pediments, older than the current Cacuilo River.
Sample collection	<ul> <li>Type of sample, whether outcrop, boulders, drill core, reverse circulation drill cuttings, gravel, stream sediment or soil, and purpose (e.g. large diameter drilling to establish stones per unit of volume or bulk samples to establish stone size distribution).</li> <li>Sample size, distribution and representivity.</li> </ul>	<ul> <li>The majority of the data used in the resource estimation is derived from mining production recoveries.</li> <li>The auger drilling spacing has been determined to be sufficient for defining the gravel extent at the required level of representivity for an inferred resource, and the production data is of a sufficient scale to establish all the key parameters required for the resource estimate at the required level of representivity for an inferred resource.</li> </ul>
Sample treatment	<ul> <li>Type of facility, treatment rate, and accreditation.</li> <li>Sample size reduction. Bottom screen size, top screen size and re-crush.</li> <li>Processes (dense media separation, grease, X-ray, hand-sorting, etc.).</li> <li>Process efficiency, tailings auditing and granulometry.</li> <li>Laboratory used type of process for micro diamonds and accreditation.</li> </ul>	<ul> <li>Samples and production material are processed through a DMS plant. The plant uses a 420mm diameter cyclone and has a nominal head feed treatment rate of 150 tonnes per hour. The plant is not accredited.</li> <li>Samples and production material washed through a scrubber. The bottom screen size is 1.2mm (slotted) (1.5mm effective) and the top size is 55mm.</li> <li>The recovery process involves DMS separation, X-ray sorting of the heavy concentrate and hand sorting of the X-ray concentrate. An XRT unit is used to process the 18-55mm fraction.</li> <li>Larger diamonds are characterised using a ZVI Yehuda F1000 Colorimeter.</li> <li>SML are processing the material through a DMS plant with an XRT coarse recovery stream. Processing efficiency has been demonstrated in density bead recovery tests. Tails auditing and granulometry studies have not been completed.</li> <li>Microdiamonds are not reported.</li> </ul>
Carat	• One fifth (0.2) of a gram (often defined as a metric carat or MC).	Reported as carats.
Sample grade	<ul> <li>Sample grade in this section of Table 1 is used in the context of carats per units of mass, area or volume.</li> <li>The sample grade above the specified lower cut-off sieve size should be reported as carats per dry metric tonne and/or carats per 100 dry metric tonnes. For alluvial deposits, sample grades quoted in carats per square metre or carats per cubic metre are acceptable if accompanied by a volume to weight basis for calculation.</li> </ul>	<ul> <li>Grade from production information is calculated from diamond recovery per unit area mined.</li> <li>For the purposes of estimation, stones per hundred cubic metres are reported.</li> <li>A nominal 2.11 tonnes per cubic metre is ascribed to the alluvial gravels. Limited density measurements have been made and the use of an "average" density is considered</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
	<ul> <li>In addition to general requirements to assess volume and density there is a need to relate stone frequency (stones per cubic metre or tonne) to stone size (carats per stone) to derive sample grade (carats per tonne).</li> </ul>	<ul> <li>appropriate for the stage of exploration. Production values are all reported in bulk volumes.</li> <li>The table in the report reports average carats per stone and carats per 100 cubic metres.</li> <li>Stone frequency per unit area (stones per square metre), stone size (carats per stone) and gravel thickness are used to derive resource grades (carats per 100 cubic metres).</li> <li>A factor derived from historical production records and based on gravel thickness is applied to each mining block to estimate the dilution expected to be incorporated into a production grade.</li> </ul>
Reporting of Exploration Results	<ul> <li>Complete set of sieve data using a standard progression of sieve sizes per facies. Bulk sampling results, global sample grade per facies. Spatial structure analysis and grade distribution. Stone size and number distribution. Sample head feed and tailings particle granulometry.</li> <li>Sample density determination.</li> <li>Per cent concentrate and undersize per sample.</li> <li>Sample grade with change in bottom cut-off screen size.</li> <li>Adjustments made to size distribution for sample plant performance and performance on a commercial scale.</li> <li>If appropriate or employed, geostatistical techniques applied to model stone size, distribution or frequency from size distribution of exploration diamond samples.</li> <li>The weight of diamonds may only be omitted from the report when the diamonds are considered too small to be of commercial significance. This lower cut-off size should be stated.</li> </ul>	<ul> <li>Sieving data is not used at Lulo. Each stone is individually weighed. Sufficient data for spatial analysis was only available for 12 of the 24 blocks analysed. In the other cases simple weighted averages were applied. Granulometry data has not been measured and are not considered material to the understanding of this report.</li> <li>The in-situ density for alluvial gravels and has been determined at 2.11 tonnes per cubic metre. This number was measured for previous samples and has been applied throughout.</li> <li>Percent concentrate and undersize have not been measured and are not considered material to the understanding of this report.</li> <li>Variation in grade with changes in bottom cut-off screen size has not been determined. The current 150tph plant was commissioned in November 2013 and this plant is used for the commercial alluvial production as well as treatment of bulk samples.</li> <li>Geostatistical studies on diamond parameters have been undertaken on blocks where sufficient data has been recorded. In the other cases simple weighted averages were applied.</li> <li>The total weight of diamonds recovered is not reported. Resource grades are quoted at a lower cut-off size of 1.5mm and upper cut-off size of 55mm.</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
Grade estimation for reporting Mineral Resources and Ore Reserves	<ul> <li>Description of the sample type and the spatial arrangement of drilling or sampling designed for grade estimation.</li> <li>The sample crush size and its relationship to that achievable in a commercial treatment plant.</li> <li>Total number of diamonds greater than the specified and reported lower cut-off sieve size.</li> <li>Total weight of diamonds greater than the specified and reported lower cut-off sieve size.</li> <li>The sample grade above the specified lower cut-off sieve size.</li> </ul>	<ul> <li>Diamond Resources are included in the report.</li> <li>No crushing is used at the Lulo operation.</li> <li>Resource volumes and carats are reported in-situ and in a separate table once appropriate dilution factors have been applied to estimate and expected production grade and volume.</li> <li>Resource grades are quoted at a lower cut-off size of 1.5mm and upper cut-off size of 55mm.</li> <li>No Diamond Reserves are reported.</li> </ul>
Value estimation	<ul> <li>Valuations should not be reported for samples of diamonds processed using total liberation method, which is commonly used for processing exploration samples.</li> <li>To the extent that such information is not deemed commercially sensitive, Public Reports should include: <ul> <li>diamonds quantities by appropriate screen size per facies or depth.</li> <li>details of parcel valued.</li> <li>number of stones, carats, lower size cut-off per facies or depth.</li> </ul> </li> <li>The average \$/carat and \$/tonne value at the selected bottom cut-off should be reported in US Dollars. The value per carat is of critical importance in demonstrating project value.</li> <li>The basis for the price (e.g. dealer buying price, dealer selling price, etc.).</li> <li>An assessment of diamond breakage.</li> </ul>	<ul> <li>Value estimates are based on recoveries from a commercial scale DMS plant. Total liberation methods have not been employed.</li> <li>Value has been modelled from SFD and assortment.</li> <li>Much of the detailed or individual diamond valuation data is considered commercially sensitive from a marketing perspective and cannot be released in advance of sale.</li> <li>The bottom cut-off used is the same as the plant – 1.2 mm slotted screen (1.5mm effective).</li> <li>Values are reported in US Dollars.</li> <li>The price quoted is the average sale price per carat.</li> <li>No significant diamond breakage was recognised.</li> <li>Average modelled value is US\$1,420 per carat.</li> <li>Average modelled value is US\$1,420 per carat.</li> <li>Sales prices quoted are commercial sales during 2018 was US\$2,091.</li> <li>Sales prices quoted are commercial dealer buying prices.</li> <li>Stone size frequency analysis and value were modelled by:</li> <li>D. E Bush Pr. Sci. Net.</li> <li>Price Price Science Assignt (2*)</li> <li>Stone size frequency analysis and value were modelled by:</li> <li>S. E. Bush Pr. Sci. Net.</li> <li>Price Base a classe during 2018 was US\$2,091.</li> <li>Sales prices quoted are commercial dealer buying prices.</li> <li>Stone size frequency analysis and value were modelled by:</li> <li>S. E. Bush Pr. Sci. Net.</li> <li>Pricepa Mineral Resource Analyst (2*)</li> <li>Stone size frequency analysis and value were modelled by:</li> <li>S. E. Bush Pr. Sci. Net.</li> <li>Pricepa Mineral Resource Analyst (2*)</li> <li>Stone Size frequency analysis to deal were the second dates.</li> <li>S. P. Dogen Pr. Sci. Net.</li> <li>Pricepa Mineral Resource Analyst (2*)</li> <li>S. Bush Pr. Sci. Net.</li> <li>Pricepa Mineral Resource Analyst (2*)</li> <li>S. Bush Pr. Sci. Net.</li> <li>Pricepa Mineral Resource Analyst (2*)</li> </ul>

Criteria	JORC Code Explanation	Lucapa Commentary
Security and integrity	<ul> <li>Accredited process audit.</li> <li>Whether samples were sealed after excavation.</li> <li>Valuer location, escort, delivery, cleaning losses, reconciliation with recorded sample carats and number of stones.</li> <li>Core samples washed prior to treatment for micro diamonds.</li> <li>Audit samples treated at alternative facility.</li> <li>Results of tailings checks.</li> <li>Recovery of tracer monitors used in sampling and treatment.</li> <li>Geophysical (logged) density and particle density.</li> <li>Cross validation of sample weights, wet and dry, with hole volume and density, moisture factor.</li> </ul>	<ul> <li>There has been no accredited process audit.</li> <li>Samples were monitored by armed guards after excavation and the process operation was monitored by Angolan State Diamond Security personnel.</li> <li>Diamonds recovered are stored in a locked vault or in vaults in Sodiam's secure offices in Luanda.</li> <li>Diamond values are based on actual sales.</li> <li>Microdiamonds were not processed.</li> <li>No audit samples were collected because of the size of the bulk samples.</li> <li>Tailings have not been checked.</li> <li>Tracer monitors were used in sample treatment with tracer recovery in all tested size fractions &gt;95% for tracers of density 3.5 g/cc.</li> <li>Geophysical densities were not determined.</li> <li>Gross validation of weights with hole volume and density is not considered appropriate for the stage of exploration.</li> </ul>
Classification	<ul> <li>In addition to general requirements to assess volume and density there is a need to relate stone frequency (stones per cubic metre or tonne) to stone size (carats per stone) to derive grade (carats per tonne). The elements of uncertainty in these estimates should be considered, and classification developed accordingly.</li> </ul>	<ul> <li>Sufficient diamonds have been recovered to allow Lucapa to quantify the commercial uncertainty in stone size frequency (SFD), stone size, assortment and diamond grade, at Inferred Resource level.</li> <li>In addition, SFD and stone size as modelled has reconciled against commercial scale alluvial mining.</li> <li>The special stones are not excluded in the modelling stage, either in terms of size or assortment.</li> <li>The size frequency distribution model is based on all the stone data and is now considered robust for the main mining production areas.</li> <li>As diamond market conditions change, the modelled value and realised values will be different.</li> </ul>



Appendix 2: Map of Lulo Alluvial Project Resource Blocks