



## Red River hits high grade and broad gold intervals at Hillgrove

### Highlights:

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- RVR receives assays for two holes at Eleanora-Garibaldi and three holes at Sunlight
  - Further high-grade intercepts within broader mineralised zones build confidence for the Hillgrove operations and significant tungsten near Sunlight provides further upside. Results include;
  - **19.7m @ 2.0 g/t Au from 221.5m downhole (SUN057)**
    - Including 3.0m @ 10.4 g/t Au from 221.5m downhole
    - Including 0.5m @ 32.1 g/t Au from 224.0m downhole
    - Including 3.2m @ 2.0 g/t Au from 238.0m downhole
    - And 7.5m @ 2.4 g/t Au + 0.6% WO<sub>3</sub> from 99.0m downhole
  - **7.0m @ 3.6 g/t Au and 0.9% Sb from 175.0m downhole (ELG153B)**
    - Including 4.0m at 4.7 g/t Au and 0.6% Sb from 178.0m downhole
  - **3.0m @ 4.4 g/t Au and 2.2% Sb from 107.0m down hole (ELG160)**
    - And 5.4m @ 2.7 g/t Au and 0.6% Sb from 174.6m downhole
    - Including 4.0m @ 3.3 g/t Au from 176.0m downhole
  - **RVR has nine holes completed awaiting assays and two rigs continue drilling at Hillgrove**
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Red River Resources Limited (ASX: RVR) is pleased to announce results of five holes from its drill program at the Hillgrove Gold project in NSW.

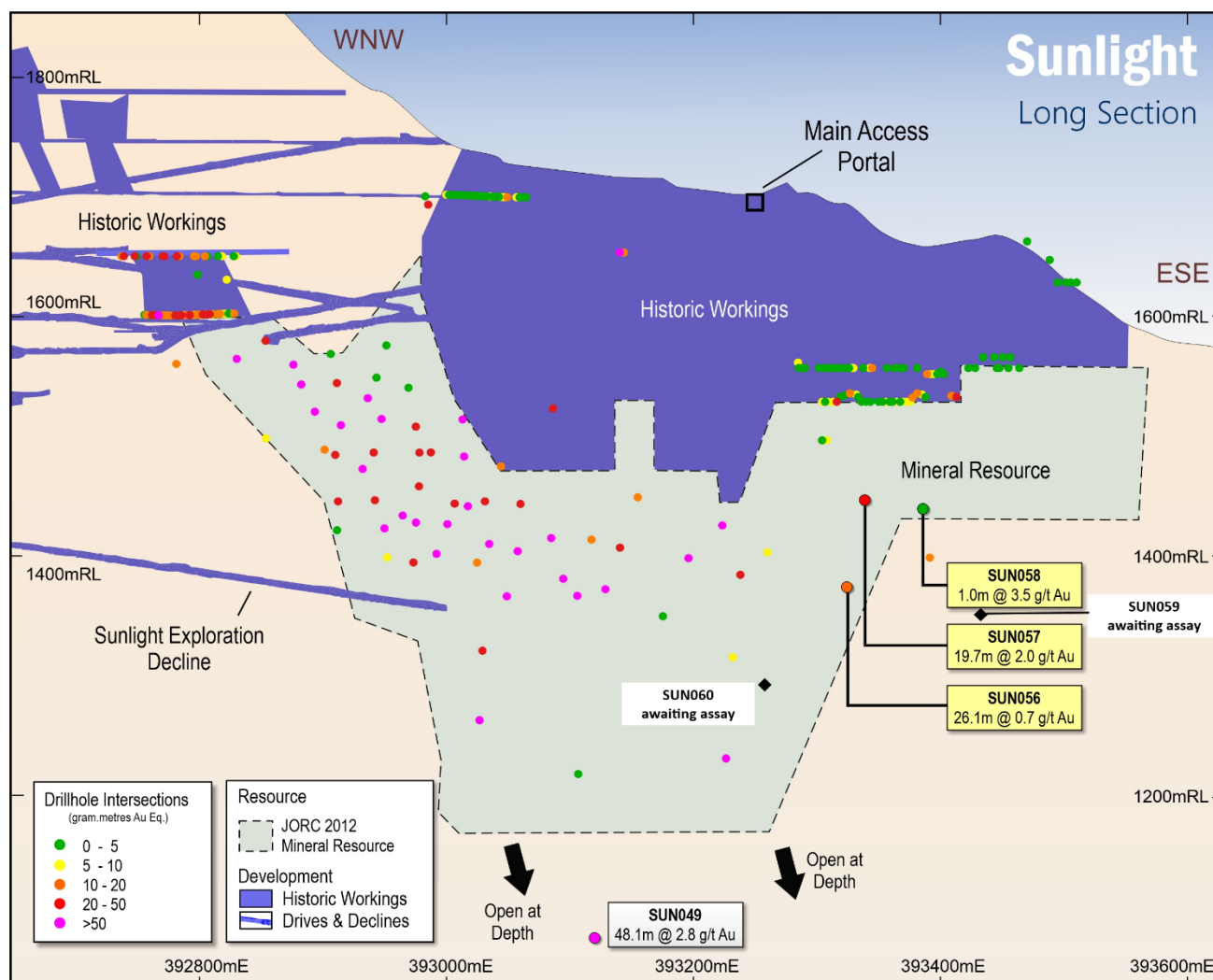
The planned drilling program at Eleanora-Garibaldi has been completed and the deposit remains open; drilling at Sunlight and Cosmopolitan is continuing. A further nine holes have been completed and are awaiting assays; results will be announced when they are received.

The high-grade intercepts within broader mineralised zones are encouraging and continue to build confidence to transition Hillgrove from a historical narrow vein project into a larger-scale gold operation. A significant tungsten intercept adjacent to Sunlight (SUN057) highlights the potential for additional value adding metals.

Hillgrove has an existing JORC 2012 Mineral Resource of 7.23Mt @ 4.5 g/t Au & 1.2% Sb (1,037koz contained Au & 90kt contained Sb) and RVR continues build this resource for a larger-scale, longer life mining operation.

## Sunlight Discussion

RVR has received assays for drill holes SUN056, SUN057 and SUN058 (Table 1). The first results from a surface program targeting the eastern extension of the Sunlight deposit. To date, six holes have been completed and one further will be drilled. The drilling aims to increase deposit knowledge and demonstrates that extensions of the Sunlight Mineral Resource to the east and at depth remain open.



**Figure 1:** Assay results from latest Sunlight drill program

Sunlight intervals of high-grade gold mineralisation include:

- **SUN056 intersected 1.1m @ 4.1 g/t Au from 91.3m downhole**
- **SUN056 intersected 26.1m @ 0.7 g/t Au from 270.2m downhole**
  - Including 1.8m @ 3.9 g/t Au from 270.2m downhole
  - Including 1.6m @ 2.5 g/t Au from 288.4m downhole
- **SUN057 intersected 7.5m @ 2.4 g/t and 0.6% WO<sub>3</sub> from 99.0m downhole**
  - Including 2.5m @ 1.9 g/t Au and 1.9% WO<sub>3</sub> from 99.0m downhole
  - Including 0.5m @ 3.0g/t Au and 6.3% WO<sub>3</sub> from 99.0m downhole
- **SUN057 intersected 19.7m @ 2.0 g/t Au from 221.5m downhole**
  - Including 3.0m @ 10.4 g/t Au from 221.5m downhole
  - Including 0.5m @ 32.1 g/t Au from 224.0m downhole
  - Including 3.2m @ 2.0 g/t Au from 238.0m downhole



**Figure 2:** Coarse grained visible gold in heal shear (SUN057)

**Table 1: Drill hole assay summary Sunlight**

Hole ID	From (m)	To (m)	Downhole Interval (m)	Au (g/t)	WO <sub>3</sub> (%)
<b>SUN056</b>	91.3	92.4	1.1	4.1	-
and	270.2	296.3	26.1	0.7	-
Inc.	270.2	272.0	1.8	3.9	-
Inc.	288.4	290.0	1.6	2.5	-
<b>SUN057</b>	99.0	106.5	7.5	2.4	0.6
Inc.	99.0	101.5	2.5	1.9	1.9
Inc.	99.0	99.5	0.5	3.0	6.3
And (0.6m CL)	221.5	241.2	19.7	2.0	-
Inc.	221.5	224.5	3.0	10.4	-
Inc.	224.0	224.5	0.5	32.1	-
Inc.	238.0	241.2	3.2	2.0	-
<b>SUN058</b>	52.0	54.0	2.0	1.9	-
and	71.0	73.0	2.0	1.2	-
and	237.0	238.0	1.0	3.5	-
and	286.0	287.0	1.0	2.1	-

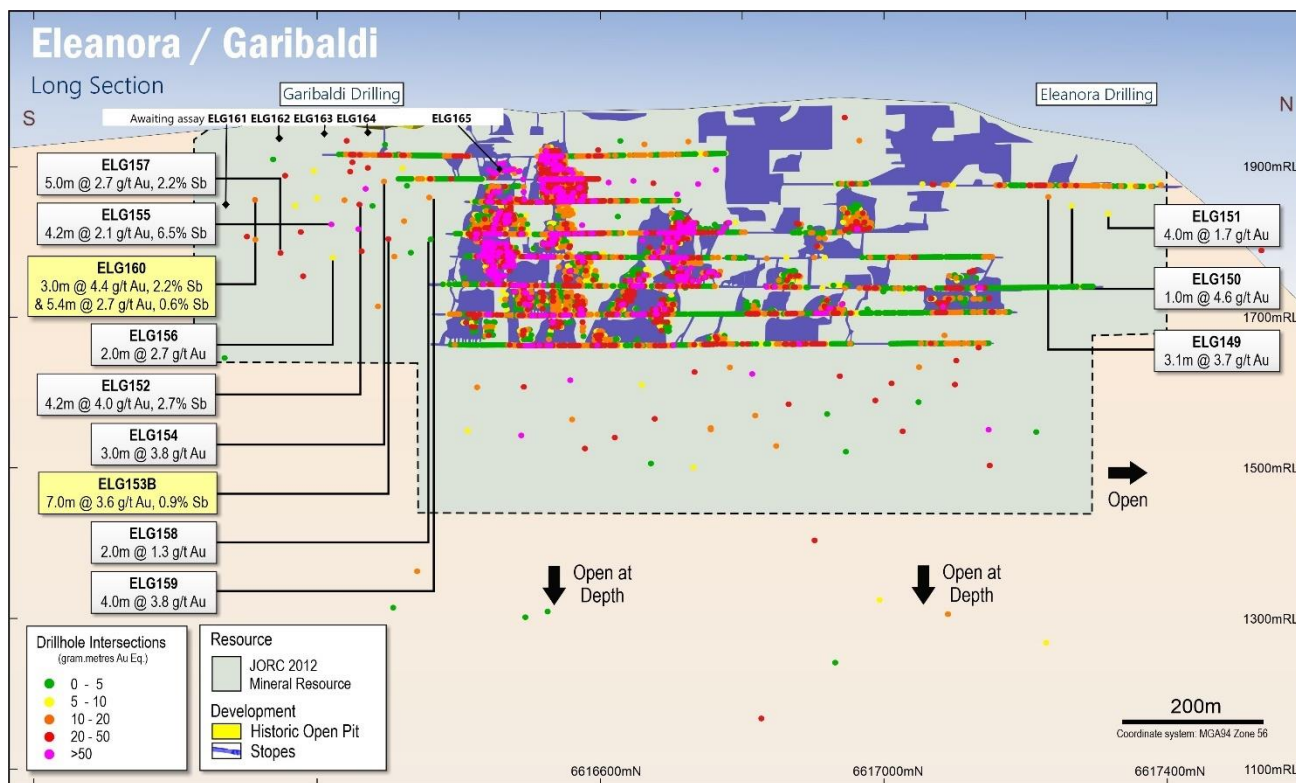
Note: All intervals of core loss (CL) have been assigned zero grade.



**Figure 3:** Scheelite (Tungsten) showing fluorescence under UV light in core of SUN057

## Eleanora-Garibaldi Discussion

RVR has received assays for drill holes ELG153B (re-drill) and ELG160 in the follow-up Eleanora-Garibaldi drill program (Table 2). All holes intersected gold mineralisation. Garibaldi drill holes intercepted multiple zones of mineralisation with three parallel lodes, West Lode (Main Lode), Centre Lode and East Lode. In multiple holes, gold mineralisation exists between the lenses, providing broad lower-grade intervals. Five additional holes have been drilled at Eleanora-Garibaldi and are awaiting assay results.



**Figure 4:** Assay results from latest Eleanora-Garibaldi program

Eleanora-Garibaldi intervals of gold antimony mineralisation include:

- **ELG153B intersected 7.0m @ 3.6 g/t Au and 0.9% Sb from 175.0m downhole**
  - Including 4.0m at 4.7 g/t Au and 0.6% Sb from 178.0m downhole
- **ELG160 intersected 32.0m @ 0.8 g/t Au and 0.4% Sb from 78.0m down hole**
  - Including 3.0m @ 4.4 g/t Au and 2.2% Sb from 107.0m downhole
- **ELG160 intersected 5.4m @ 2.7 g/t Au and 0.6% Sb from 174.6m downhole**
  - Including 4.0m @ 3.3 g/t Au from 176.0m downhole



**Figure 5:** Massive stibnite in core of ELG160

**Table 2:** Drill hole assay summary Eleanora-Garibaldi

Hole ID	From (m)	To (m)	Downhole Interval (m)	Au (g/t)	Sb (%)
<b>ELG153B</b> (0.6m CL)	175.0	182.0	7.0	3.6	0.9
inc. (0.6m CL)	178.0	182.0	4.0	4.7	0.6
<b>ELG160</b>	78.0	110.0	32.0	0.8	0.4
Inc.	107.0	110.0	3.0	4.4	2.2
and	174.6	180.0	5.4	2.7	0.6
Inc.	176.0	180.0	4.0	3.3	-

Note: All intervals of core loss (CL) have been assigned zero grade.

The planned drilling program at Eleanora-Garibaldi has been completed and the deposit remains open along strike and depth. RVR will plan more drilling once the potential has been tested in other areas at Hillgrove.

The Garibaldi area has undergone significant brittle deformation both pre-mineralisation and post mineralisation compared to Eleanora. This has had two fundamental impacts on the geology and mineralisation.

The first is that the pre-mineralisation faulting has created pathways for significant lamprophyre dyke swarms, with holes drilled in this program containing anywhere from 1 to 11 lamprophyre intrusions.

The second is that faulting has also created additional pathways for the mineralised hydrothermal fluids to flow through. This has affected the mineralisation by creating two additional and generally weaker parallel trends of mineralisation east of the main lode trend (being a southern continuation of the Eleanora lode). There also exists weak mineralisation between the lodes creating wide zones (>20m) of halo gold mineralisation.

Historically, Garibaldi had a small open pit which is approximately 155m long, 40m wide and 10m deep to take advantage of the multiple gold lodes and bulk low-grade material.

### **Underground Restart Update:**

RVR is completing a competitive tender process for the restart of underground mining at Hillgrove. RVR is pleased with the significant interest from multiple potential partners. Recruitment for key staff roles is also progressing.

### **About Red River Resources (ASX: RVR)**

RVR is building a multi-asset operating business focused on base and precious metals with the objective of delivering prosperity through lean and clever resource development. RVR's foundation asset is the Thalanga Base Metal Operation in Northern Queensland, which was acquired in 2014 and where RVR commenced copper, lead and zinc concentrate production in September 2017. RVR has commenced production at the high-grade Hillgrove Gold Operation in New South Wales which was acquired in 2019. The Hillgrove Operation is a key part of RVR's strategy to build a multi-asset operating business focused on base and precious metals.

On behalf of the Board,

**Mel Palancian**

**Managing Director**

Red River Resources Limited

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## Competent Persons Statement

### Exploration Results

The information in this report that relates to Exploration Results is based on information compiled by Mr Blake Larter who is a member of The Australasian Institute of Mining and Metallurgy, and a full time employee of Red River Resources Ltd., and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). Mr Larter consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

### Gold Equivalent Calculation

The display of drill intersections contains gold equivalent (Au Eq.) values.

The use of a gold equivalent cut-off is appropriate for the multi-element mineralisation at Hillgrove, where value is obtained from antimony and/or gold.

The Au equivalent allows for a basic level of assessment of deposits and mineralisation styles within the Hillgrove group of deposits. The Au Eq. value was calculated using a gold price of US\$1,234/oz and an antimony price of US\$ 5,650 / tonne where:

$$\text{Au Eq. (g/t)} = (\text{Au g/t}) + (1.424 * \text{Sb \%})$$

## Appendix 1: Drill Hole Details

Table 8 Eleanora drill hole information summary, Hillgrove Gold Project. GDA94 MGA56

Hole ID	Depth (m)	Dip (°)	Azi (°)	Eastings (m)	Northings (m)	RL (m)	Lease ID	Hole Status
ELG153B	203.1	-70	235	394852	6616612	1970	ML391	Completed.
ELG160	216	-74	205	394885	6616465	1971	ML649	Completed.
ELG161	211.7	-57	194	394885	6616464	1972	ML649	Completed awaiting assays.
ELG162	82.8	-54	256	394861	6616451	1968	ML649	Completed awaiting assays.
ELG163	78.6	-46	247	394843	6616508	1968	ML391	Completed awaiting assays.
ELG164	68.8	-47	252	394815	6616563	1962	ML391	Completed awaiting assays.
ELG165	135	-48	236	394810	6616758	1975	ML391	Completed awaiting assays.



Hole ID	Depth (m)	Dip (°)	Azi (°)	Eastings (m)	Northings (m)	RL (m)	Lease ID	Hole Status
SUN056	323.2	-59	236	393513	6616781	1599	ML1026	Completed.
SUN057	263.5	-43	203	393513	6616781	1599	ML1026	Completed.
SUN058	315.1	-43	184	393514	6616780	1599	ML1026	Completed.
SUN059	369.1	-54.5	172	393515	6616780	1599	ML1026	Completed awaiting assays.
SUN060	385.9	-61	230.5	393513	6616782	1599	ML1026	Completed awaiting assays.
SUN061	252	-37	174	393518	6616774	1599	ML1026	TBC

## JORC Code, 2012 Edition – Table 1

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<p>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. Include reference to measures taken to ensure sample retrospectivity and the appropriate calibration of any measurement tools or systems used.</p> <p>Aspects of the determination of mineralisation that are Material to the Public Report.</p> <p>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.</p>	<p>Diamond drilling (DD) techniques were used to obtain samples.</p> <p>Diamond core was placed in core trays for logging and sampling. Half core samples were nominated by the geologist from diamond core based on visual inspection of mineralisation. Intervals ranged from 0.25 to 1.4m based on geological boundaries</p> <p>Diamond samples were sawn in half using an onsite core saw.</p> <p>The drill core samples were sent to ALS Laboratories in Zillmere QLD.</p> <p>Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis.</p> <p>Analysis of the diamond drill samples consisted of a four-acid digest and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) for the following elements: Ag, As, Cu, Pb, S, Sb, W &amp; Zn was undertaken. The samples were also assayed for Au using a 50g Fire Assay technique. If over detection on the ICP reached then the samples were assayed using XRF. Standards and blanks were inserted at a rate of 5%.</p> <p>The RC drilling was conducted by Straits Resources in 2004-2005. These samples were assayed by ALS Laboratories in Brisbane.</p>
<b>Drilling techniques</b>	<p>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).</p>	<p>Diamond drilling (DD) and Reverse Circulation (RC) drilling techniques were used to obtain samples. The diamond drill core was NQ2 in size.</p>
<b>Drill sample recovery</b>	<p>Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples.</p> <p>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</p>	<p>Sample recovery is measured and recorded by company trained geology technicians.</p> <p>Minimal sample loss has occurred.</p>
<b>Logging</b>	<p>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</p> <p>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</p>	<p>Holes are logged to a level of detail that would support mineral resource estimation.</p> <p>Qualitative logging includes lithology, alteration and textures.</p> <p>Quantitative logging includes sulphide and gangue mineral percentages.</p> <p>All drill core was photographed.</p> <p>All drill holes have been logged in full.</p>

Criteria	JORC Code explanation	Commentary
	The total length and percentage of the relevant intersections logged.	
<b>Sub-sampling techniques and sample preparation</b>	<p>If core, whether cut or sawn and whether quarter, half or all core taken.</p> <p>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</p> <p>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</p> <p>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</p> <p>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.</p> <p>Whether sample sizes are appropriate to the grain size of the material being sampled.</p>	<p>Core was sawn, and half core sent for assay.</p> <p>Sample preparation is industry standard, occurring at an independent commercial laboratory which has its own internal Quality Assurance and Quality Control procedures.</p> <p>Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis.</p> <p>Laboratory certified standards were used in each sample batch.</p> <p>The sample sizes are considered to be appropriate to correctly represent the mineralisation style.</p>
<b>Quality of assay data and laboratory tests</b>	<p>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</p> <p>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.</p> <p>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.</p>	<p>The assay methods employed are considered appropriate for near total digestion.</p> <p>Laboratory certified standards were used in each sample batch.</p> <p>Certified standards returned results within an acceptable range.</p> <p>No field duplicates are submitted for diamond core.</p>
<b>Verification of sampling and assaying</b>	<p>The verification of significant intersections by either independent or alternative company personnel.</p> <p>The use of twinned holes.</p> <p>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</p> <p>Discuss any adjustment to assay data.</p>	<p>Laboratory results have been reviewed by Company geologists and laboratory technicians.</p> <p>No twinned holes were drilled for this data set.</p>
<b>Location of data points</b>	<p>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.</p> <p>Specification of the grid system used.</p> <p>Quality and adequacy of topographic control.</p>	<p>Collars were surveyed with RTKGPS (+/-0.1m).</p> <p>Down hole surveys conducted with digital magnetic multi-shot camera at 20-40m intervals. A portion of drill holes were surveyed by multi-shot survey.</p> <p>Coordinate system used is GDA94 MGA Zone 56.</p>
<b>Data spacing and distribution</b>	<p>Data spacing for reporting of Exploration Results.</p> <p>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</p>	<p>The current drill spacing is approximately 30-60m.</p> <p>No sample compositing has been applied.</p>

Criteria	JORC Code explanation	Commentary
	estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	
<i>Orientation of data in relation to geological structure</i>	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 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.	Drill holes are orientated perpendicular to the perceived strike of the host lithologies where possible. The orientation of the multiple lenses varies resulting in some holes resulting in less than perpendicular intersections. Drill holes are drilled at a dip based on logistics and dip of anomaly to be tested. The orientation of the drilling is designed to not bias sampling. Orientation of the NQ2 core was undertaken to define structural orientation.
<b>Sample security</b>	The measures taken to ensure sample security.	Samples have been overseen by company staff during transport from site to the SGS or ASL laboratories in West Wyalong or Brisbane respectively.
<i>Audits or reviews</i>	The results of any audits or reviews of sampling techniques and data.	No audits or reviews have been carried out at this point.

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	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. 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.	The drilling was conducted on the following mining leases; GL3980, GL3959, ML1599 & ML961 These leases are held by Hillgrove Mines Pty Ltd. (a wholly owned subsidiary of Red River Resources).
<i>Exploration done by other parties</i>	Acknowledgment and appraisal of exploration by other parties.	The historic RC drilling was conducted by Straits Resources in 2004-2005.
<i>Geology</i>	Deposit type, geological setting and style of mineralisation.	The exploration model is orogenic gold/antimony.
<i>Drill hole Information</i>	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, including, easting and northing, elevation or RL, dip and azimuth, down hole length, interception depth and hole length. If the exclusion of this information is justified the Competent Person should clearly explain why this is the case.	See Appendix 1 – Drill Hole Details Assay Details – Eleanora Drilling Material Assay Results
<i>Data aggregation methods</i>	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. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths 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.	Interval length weighted assay results are reported. No cutting of high grades has been done.
<i>Relationship between mineralisation widths and intercept lengths</i>	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g.	The mineralisation is interpreted to be dipping at approximately 90 degrees, drill holes have been designed to intercept the mineralisation as close to perpendicular as possible. Down hole intercepts are reported. True widths are likely to be approximately 30 to 80% of the down hole widths.

Criteria	JORC Code explanation	Commentary
	'down hole length, true width not known').	
<i>Diagrams</i>	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 plans and sections.	Refer to plans and sections within report.
<i>Balanced reporting</i>	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.	The accompanying document is considered to represent a balanced report.
<i>Other substantive exploration data</i>	Other exploration data, if meaningful and material, should be reported.	All meaningful and material data is reported.
<i>Further work</i>	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).	Further Drilling targeting the lateral extensions of the Eleanora lode is ongoing.

END