ASX Release 22 May 2017



High-grade zinc and gold intersections continue at Liontown East

Highlights:

- Assays received from LTED07 demonstrate excellent strike continuity of high-grade base metal mineralisation at Liontown East
- LTED07 intersected 19.1m @ 10.5% Zn Eq. from 529.4m down-hole including two high-grade zones of 3.6m @ 20.9% Zn Eq. from 529.4m down-hole and 5.4m @ 13.7% Zn Eq. from 543.1m down-hole
 - 19.1m @ 10.5% Zn Eq. (0.5% Cu, 2.3% Pb, 6.4% Zn, 0.2 g/t Au & 13 g/t Ag) from 529.4 downhole; including
 - 3.6m @ 20.9% Zn Eq. (0.4% Cu, 6.1% Pb, 13.5% Zn, 0.1 g/t Au & 18 g/t Ag) from 529.4m down-hole; and
 - 5.4m @ 13.7% Zn Eq. (0.7% Cu, 2.9% Pb, 8.2% Zn, 0.4 g/t Au & 15 g/t Ag) from 543.1m down-hole
- LTED07 also intersected a discrete copper-gold-silver zone of mineralisation from 557.0m down-hole
 - 7.7m @ 1.2 % Cu, 3.4 g/t Au & 36 g/t Ag with minor lead (0.6% Pb) and zinc (1.4%) mineralisation from 557.0m down-hole
 - Drilling of LTED07W1 underway, with further drilling planned (parent hole and 4 wedge holes)

Near-term zinc producer Red River Resources Limited (ASX: RVR) ("Red River" or the "Company") is pleased to report high-grade assay results for diamond drill hole LTED07 at the Liontown East target, part of the Company's Thalanga Zinc Project ("Project") in Queensland.

LTED07 was drilled to test the strike continuity of the Liontown East discovery, which is located on EPM 14161, approximately 1.2km east of the Liontown Mineral Resource. LTED07 intersected a broad zone of massive and semi-massive sulphide mineralisation from 527.5m to 548.5m down-hole. LTED07 returned two high-grade intercepts of 3.6m @ 20.9% Zn Eq. from 529.4m and 5.4m @ 13.7% Zn Eq. from 543.1m within a larger intercept of 19.1m @ 10.5% Zn Eq. from 529.4m to 548.5m down-hole.

- 19.1m @ 10.5% Zn Eq. (0.5% Cu, 2.3% Pb, 6.4% Zn, 0.2 g/t Au & 13 g/t Ag) from 529.4 down-hole; including
- 3.6m @ 20.9% Zn Eq. (0.4% Cu, 6.1% Pb, 13.5% Zn, 0.1 g/t Au & 18 g/t Ag) from 529.4m downhole; and 5.4m @ 13.7% Zn Eq. (0.7% Cu, 2.9% Pb, 8.2% Zn, 0.4 g/t Au & 15 g/t Ag) from 543.1m down-hole

LTED07 also intersected a discrete zone of copper-gold-silver mineralisation of **7.7m @ 1.2% Cu, 3.4g/t Au & 36g/t Ag** from 557.0m down-hole with minor associated lead (0.6%) and zinc (1.4%) mineralisation. This is the first time that such gold-rich mineralisation has been intersected at Liontown East, and could represent mineralisation similar to the copper-gold-silver mineralisation historically mined at the Carrington Lode (Liontown Deposit) from 1905 to 1911.

The current hole (LTED07W1) is currently in progress and is at 320m depth (21 May). The next stage of drilling will involve a parent hole and four wedge holes to test the depth extensions of the Liontown East system (refer to Figure 1).



Figure 1 Liontown East Long Section

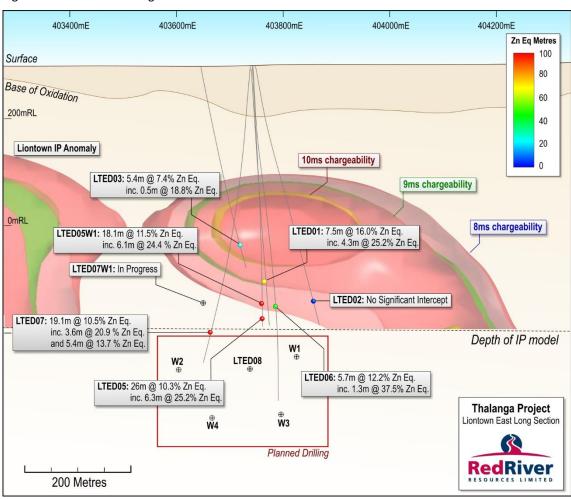


Table 1 Drill hole information summary, Thalanga Zinc Project Liontown East (LTED05W1)

Hole ID	Wedge Depth	Dip	Final Depth	Azi (MGA)	East (MGA)	North (MGA)	RL (MGA)	Lease ID	Hole Status
LTED07	na	-75°	600m	329°	403789	7742679	302	EPM 14161	Complete
LTED07W1 ⁽¹⁾	320m	-72.5°		315°	403750	7742742	42	EPM 14161	Ongoing
(1) As at 21 May									



Thalanga Zinc Project Background

Red River released a Restart Study (the internal study prepared by Red River to assess the potential restart of the Thalanga Zinc Project) in November 2015, which demonstrated the highly attractive nature of the Project. The Project has a low operating cost, low pre-production capital cost (\$17.2 million), and a short timeline to production (six months).

Annual average production is 21,400 tonnes of zinc, 3,600 tonnes of copper, 5,000 tonnes of lead, 2,000 ounces of gold and 370,000 ounces of silver in concentrate over an initial mine life of five years, and there is outstanding extension potential.

Please refer to ASX release dated 12 November 2015 for further details on the Thalanga Zinc Project Restart Study. Red River confirms that all material assumptions underpinning the production target in the ASX release dated 12 November 2015 continue to apply and have not materially changed.

The Thalanga Zinc Project Restart Study is based on production from three deposits – West 45, Far West and Waterloo. The Thalanga Zinc Project Restart Study is based on low level technical and economic assessments and there is insufficient data to support the estimation of Ore Reserves at Far West and Waterloo, provide assurance of an economic development case at this stage, or provide certainty that the results from the Thalanga Zinc Project Restart Study will be realised. Further, as the production target that forms the basis of the Thalanga Zinc Project Restart Study includes Mineral Resources that are in the Inferred Category and there is a low level of geological confidence associated with Inferred Mineral Resources, there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.

On behalf of the Board,

Mel Palancian
Managing Director
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COMPETENT PERSON STATEMENT

Exploration Results

The information in this report that relates to Exploration Results is based on information compiled by Mr Alex Nichol who is a member of the Australasian Institute of Geoscientists, 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 Nichol consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.



Zinc Equivalent Calculation

The net smelter return zinc equivalent (Zn Eq.) calculation adjusts individual grades for all metals included in the metal equivalent calculation applying the following modifying factors: metallurgical recoveries, payability factors (concentrate treatment charges, refining charges, metal payment terms, net smelter return royalties and logistic costs) and metal prices in generating a zinc equivalent value for copper (Cu), lead (Pb), zinc (Zn), gold (Au) and silver (Ag).

Red River has selected to report on a zinc equivalent basis, as zinc is the metal that contributes the most to the net smelter return zinc equivalent (Zn Eq.) calculation. It is the view of Red River Resources that all the metals used in the Zn Eq. formula are expected to be recovered and sold.

Where:

Metallurgical Recoveries are derived from historical metallurgical recoveries from test work carried out the Liontown deposit. The Liontown East deposit is related to and of a similar style of mineralisation to the Liontown Deposit and it is appropriate to apply similar recoveries. The Metallurgical Recovery for each metal is shown below in Table 1.

Metal Prices and Foreign Exchange assumptions are set as per internal Red River price forecasts and are shown below in Table 1.

Table 1 Metallurgical Recoveries and Metal Prices

Metal	Metallurgical Recoveries	Price		
Copper	80%	US\$3.00/lb		
Lead	70%	US\$0.90/lb		
Zinc	88%	US\$1.00/lb		
Gold	15%	US\$1,200/oz		
Silver	65%	US\$17.00/oz		
FX Rate: A\$0.85:US\$1				

Payable Metal Factors are calculated for each metal and make allowance for concentrate treatment charges, transport losses, refining charges, metal payment terms and logistic costs. It is the view of Red River that three separate saleable base metal concentrates will be produced from Liontown East. Payable metal factors are detailed below in Table 2.

Table 2 Payable Metal Factors

Metal	Payable Metal Factor
Copper	Copper concentrate treatment charges, copper metal refining charges copper metal payment terms (in copper concentrate), logistic costs and net smelter return royalties
Lead	Lead concentrate treatment charges, lead metal payment terms (in lead concentrate), logistic costs and net smelter return royalties
Zinc	Zinc concentrate treatment charges, zinc metal payment terms (in zinc concentrate), logistic costs and net smelter return royalties
Gold	Gold metal payment terms (in copper and lead concentrates), gold refining charges and net smelter return royalties
Silver	Silver metal payment terms (in copper, lead and zinc concentrates), silver refining charges and net smelter return royalties



The zinc equivalent grade is calculated as per the following formula:

Zn Eq. =
$$(Zn\%*1.0) + (Cu\%*3.3) + (Pb\%*0.9) + (Au ppm*0.5) + (Ag ppm*0.025)$$

The following metal equivalent factors used in the zinc equivalent grade calculation has been derived from metal price x Metallurgical Recovery x Payable Metal Factor, and have then been adjusted relative to zinc (where zinc metal equivalent factor = 1).

Table 3 Metal Equivalent Factors

Metal	Copper	Lead	Zinc	Gold	Silver
Metal Equivalent Factor	3.3	0.9	1.0	0.5	0.025



APPENDIX 1 ASSAY DETAILS

Hole ID	From (m)	To (m)	Int (m)	Cu%	Pb%	Zn%	Au g/t	Ag g/t	Zn Eq%
LTED07	527.50	529	1.50	0.10	1.33	2.96	0.0	4.8	4.61
LTED07	529.00	529.4	0.40	0.09	0.45	1.37	0.1	10.6	2.35
LTED07	529.40	530.5	1.10	0.44	5.16	11.98	0.2	20.7	18.68
LTED07	530.50	531.8	1.30	0.59	10.15	20.11	0.1	18.8	31.73
LTED07	531.80	533	1.20	0.18	2.65	7.77	0.1	13.8	11.16
LTED07	533.00	534	1.00	0.79	0.19	1.44	0.2	7.6	4.50
LTED07	534.00	535	1.00	0.27	0.79	2.37	0.1	8.4	4.24
LTED07	535.00	536.1	1.10	0.60	1.67	5.02	0.2	22.4	9.14
LTED07	536.10	537	0.90	0.64	1.08	6.49	0.2	16.9	10.09
LTED07	537.00	538	1.00	0.02	0.03	0.43	0.0	1.5	0.59
LTED07	538.00	539.2	1.20	0.02	0.10	0.59	0.1	2.4	0.85
LTED07	539.20	540	0.80	0.39	0.66	2.95	0.2	11.2	5.22
LTED07	540.00	541.4	1.40	0.60	0.45	4.33	0.2	14.1	7.18
LTED07	541.40	542	0.60	0.32	0.07	0.60	0.1	3.0	1.83
LTED07	542.00	543.1	1.10	0.45	0.13	3.83	0.2	9.2	5.73
LTED07	543.10	544	0.90	0.39	3.78	8.54	0.2	9.9	13.56
LTED07	544.00	544.8	0.80	0.96	5.63	13.60	0.5	20.2	22.56
LTED07	544.80	546.3	1.50	0.24	1.69	5.38	0.7	15.6	8.43
LTED07	546.30	547	0.70	0.72	4.92	11.57	0.2	13.0	18.79
LTED07	547.00	548.5	1.50	1.28	1.24	6.19	0.3	16.8	12.10
LTED07	548.50	550	1.50	0.02	0.12	0.29	0.1	2.1	0.56
LTED07	550.00	551.5	1.50	0.02	0.17	0.35	0.1	2.5	0.68
LTED07	551.50	553	1.50	0.05	0.03	0.21	0.1	1.7	0.48
LTED07	553.00	554.5	1.50	0.02	0.13	0.98	0.1	2.6	1.28
LTED07	554.50	556	1.50	0.02	0.04	0.25	0.1	1.4	0.42
LTED07	556.00	557	1.00	0.01	0.10	0.74	0.1	2.4	0.97
LTED07	557.00	557.8	0.80	0.01	0.05	0.39	4.1	1.5	(1)
LTED07	557.80	559	1.20	0.17	0.17	0.85	0.9	3.5	2.07
LTED07	559.00	560.1	1.10	0.62	0.16	0.38	5.4	12.8	(1)
LTED07	560.10	561.5	1.40	2.19	1.17	1.81	1.5	75.7	12.73
LTED07	561.50	562.2	0.70	1.97	1.07	2.74	1.0	69.6	12.43
LTED07	562.20	563.2	1.00	3.39	0.97	2.27	0.7	88.9	16.90
LTED07	563.20	564.7	1.50	0.54	0.61	1.45	8.6	10.7	(1)
LTED07	564.70	565.6	0.90	0.04	0.07	0.10	0.2	4.3	0.48
LTED07	565.60	567	1.40	0.05	0.20	0.43	0.6	3.9	1.21
LTED07	567.00	568.5	1.50	0.06	0.12	0.30	0.9	2.8	1.10
LTED07	568.50	570	1.50	0.04	0.07	0.31	0.0	1.9	0.57
LTED07	570.00	571.5	1.50	0.20	0.31	1.89	0.1	6.4	3.03
LTED07	571.50	573	1.50	0.13	0.25	1.46	0.1	9.2	2.36

^{*}bdl – below detection limit

⁽¹⁾ Zinc equivalent not reported for high gold mineralisation



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
Sampling techniques	 Nature and quality of sampling (eg 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 representivity and the appropriate calibration of any measurement tools or systems used. 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 (eg '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 (eg submarine nodules) may warrant disclosure of detailed information. 	 Diamond drilling was used to obtain core samples Samples consist of half BQ core Sample intervals were selected by company geologists based on visual mineralisation Intervals ranged from 0.2 to 1.5m based on geological boundaries Samples were sawn if half using an onsite core saw and sent to Intertek Genalysis laboratories Townsville. Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis. Analysis consisted of a four acid digest and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) for the following elements; Ag, As, Ba, Bi, Ca, Cu, Fe, K, Mg, Mn, Na, Pb, S, Sb, Ti, Zn, & Zr. A selection of samples was also assayed for Au using a 30g Fire Assay technique
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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).	 Drilling techniques consist of; PCD drilling through the cover sequence HQ diamond core drilling for the first 50-100m of each hole NQ2 diamond core drilling for the remainder of the drill holes. And occasional BQ daughter wedges.
Drill sample recovery	 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. 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. 	 Sample recovery is measured and recorded by company trained geotechnicians negligible sample loss has been recorded
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining	 Holes are logged to a level of detail that would support mineral resource estimation. Qualitative logging includes lithology, alteration and textures



Criteria	JORC Code explanation	Commentary
	 studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 Quantitative logging includes sulphide and gangue mineral percentages All drill core was photographed All drill holes have been logged in full
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 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. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 Core was sawn and half core sent for assay Sample preparation is industry standard, occurring at an independent commercial laboratory Samples were crushed to sub 6mm, split and pulverised to sub 75µm in order to produce a representative sub-sample for analysis Laboratory certified standards were used in each sample batch The sample sizes are considered to be appropriate to correctly represent the mineralisation style
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 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. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	 The assay methods employed are considered appropriate for near total digestion Laboratory certified standards were used in each sample batch Certified standards returned results within an acceptable range
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	Laboratory results have been reviewed by Company geologists and laboratory technicians
Location of data points	 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. Specification of the grid system used. Quality and adequacy of topographic 	 Collars surveyed with handheld GPS Down hole surveys conducted with Camteq multishot digital camera Coordinate system used is MGA94 Zone 55 Topographic control is based on a detailed 3D Digital Elevation Model



Criteria	JORC Code explanation	Commentary
	control.	
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 The current drill spacing is approximately 50-100m No sample compositing has been applied
Orientation of data in relation to geological structure	 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 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 The orientation of the drill core is determined using a Camteq digital Orientation Tool
Sample security	The measures taken to ensure sample security.	Samples have been overseen by company geologists during transport from site to Intertek Genalysis laboratories, Townsville.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audits or reviews have been carried out at this point



Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	 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 Exploration Permit EPM 14161 EPM 14161 is held by Cromarty Pty Ltd. (a wholly owned subsidiary of Red River Resources) and forms part of Red River's Thalanga Zinc Project Red River engaged Native Title Claimants, The Gudjalla People to conduct cultural clearances of drill pads and access tracks The Exploration Permits are in good standing
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Historic Exploration was carried out by Esso Exploration & PanContinental Mining. This included drilling and geophysics
Geology	Deposit type, geological setting and style of mineralisation.	 The exploration model is Volcanic Hosted Massive Sulphide (VHMS) base metal mineralisation The regional geological setting is the Mt Windsor Volcanic Sub-province, consisting of Cambro- Ordovician marine volcanic and volcano- sedimentary sequences
Drill hole Information	 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 Table1 – Drill Hole Details See Appendix 1 – Assay Details
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg 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 Significant Intercepts relate to assay results > 5% Zn Equivalent. Zn equivalent formula utilised is: Zn% + (Cu%*3.3) + (Pb%*0.9) + (Auppm*0.5) + (Agppm*0.025)



Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	 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 (eg 'down hole length, true width not known'). 	 The mineralisation is interpreted to be dipping at approximately 70 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 80% of the down hole widths.
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 plans and sections. 	Refer to plans and sections within report
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.	The accompanying document is considered to represent a balanced report
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported.	All meaningful and material data is reported
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	Further Drilling at Liontown East has commenced