

16 October 2024

Samalari Exploration Update

HIGHLIGHTS

- → Estrella continues to explore the newly granted and highly prospective Baucau Licenses in Timor-Leste:
 - ➤ A significant new supergene Manganese exposure has been located 500m south of Samalari prospect from ongoing reconnaissance mapping (See Figure 1 and Figure 3)
 - > Outcropping manganese oxides have been traced over 1.7km strike at Samalari and between 2m to 6m in width.
 - Community engagement and education programs are ongoing.



Figure 1: Estrella Geologist Kharol Varela mapping and sampling chert bedding below supergene development in an exposed outcrop 500m south-west of the Samalari discovery area within concession MEL2024-DA-ZB-001. Visual estimates of the mineral abundances present within the exposure is not possible for safety reasons. The scree from this exposure exhibited >70% manganese-iron-oxide minerals and results are presented in Table 1.



Estrella Resources Limited (ASX: ESR) (Estrella or the Company) is pleased to announce an exploration update covering the newly awarded Baucau project (Figure 2).

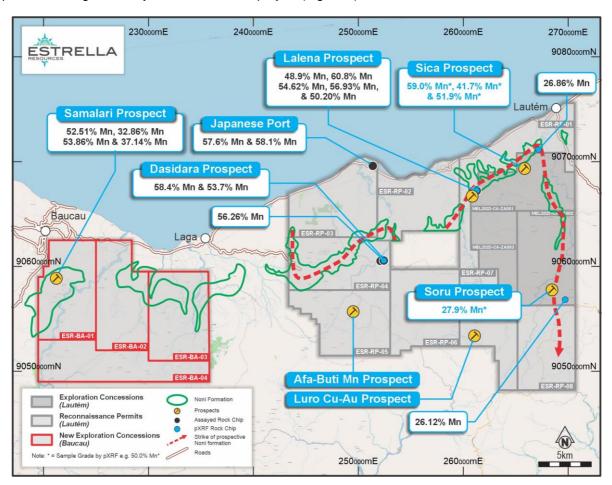


Figure 2: Location of the Samalari Prospect within the four granted Exploration and Evaluation Licenses

Commenting on the new discovery Estrella Managing Director Chris Daws said:

"The more time our exploration teams spend in the field the more manganese they keep finding. This most recent discovery of outcropping supergene manganese south of the Samalari manganese prospect is one of the most spectacular that we have located to date in Timor-Leste.

With our partners Murak Rai Timor the Company has been able to secure the largest exploration ground holding in Timor-Leste which gives us a very strong opportunity for many more mineral discoveries to be made.

Our pivot to Timor-Leste has been the right move and we are starting to see reward for our efforts. I'm very excited to see what our next stage of development looks like as we continue our mapping and sampling work while also preparing for surveying and ground-disturbing activities which will allow us to explore for manganese mineralisation below surface."

The Samalari Prospect is located just 5km from Baucau, the third largest city in Timor-Leste. Existing roads connect the prospect to a major national highway to the north. Grid power is readily available within the Exploration License. Mineralisation occurs in an area with very low population and little farmland.

Figure 3 below shows the location of an extensive manganese outcrop captured in Figure 1,500m to the south of the main outcrop at Samalari. Surface mapping is ongoing with mineralisation at Samalari open to both the north-east and south-west. The mineralisation in the pictured outcrop has not yet been sampled given difficult access to the location and with the outcrop exposed around 8m up a steep gully face.



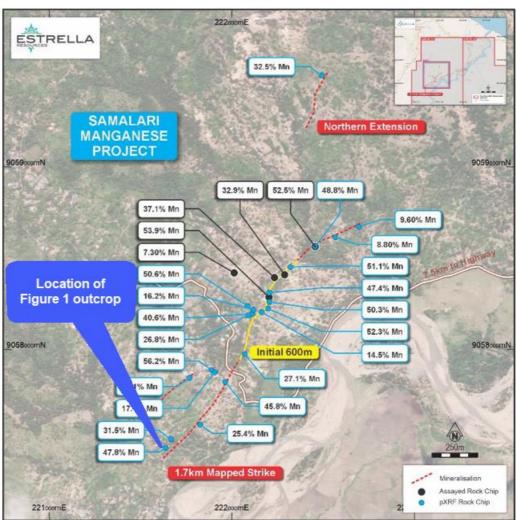


Figure 3: Location Plan of the Samalari Prospect (5km from Baucau and 7.5km by road from a national highway)

Table 1 below presents spot rock-chip pXRF results that were taken during mapping of the area. None of this material was collected for assay at the time. Proper sampling of the outcrop will be conducted in due course.

Table 1: Portable XRF results from spot rock-chip samples just down stream from the exposure in Figures 1 and 3

Description	Mineralogy	Latitude	Longitude	pXRF Mn%
Manganese float material in creek	>95% Manganese oxides	-8.51473	126.474	56.2
Manganese float material in creek	45% Fe-Mn oxides	-8.51485	126.474	17.1
Supergene sub-crop side of creek	>95% Manganese oxides	-8.51532	126.475	45.8

Cautionary Statement of pXRF - pXRF results that are announced in this report are from uncrushed, rock-chip samples. The use of the PXRF is an indication only of the order of magnitude of expected manganese content. None of the samples that are reported will be submitted for laboratory assay in Australia.

Next Steps

Estrella has expanded its in-country technical team with additional experienced Timor-Leste geological and geophysical personnel to expedite its exploration programs.

Estrella is looking to develop a specific Induced Polarisation (IP) tool to be available in-country, which it can deploy to areas where mapping shows the greatest potential of supergene manganese development.



IP is an excellent geophysical method for manganese exploration. Manganese oxides often exhibit distinct electrical properties compared to the surrounding materials. IP can help identify these differences, making it easier to locate manganese deposits in 3D and at depth.

Whilst the IP capabilities are being assembled, Estrella is embarking on its Community Liaison and Public Education Programs and planning Cultural Ceremonies with the local villages within the Baucau License areas.

The Company will update shareholders as more information comes to hand.

The Board has authorised for this announcement to be released to the ASX.

FURTHER INFORMATION CONTACT

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Forward Looking Statements

This announcement contains certain forward-looking statements which have not been based solely on historical facts but, rather, on ESR's current expectations about future events and on a number of assumptions which are subject to significant uncertainties and contingencies many of which are outside the control of ESR and its directors, officers and advisers.

Cautionary Statement of pXRF

pXRF results that are announced in this report are from uncrushed, rock-chip samples. The use of the PXRF is an indication only of the order of magnitude of expected manganese content. None of the samples that are reported will be submitted for laboratory assay in Australia.

Cautionary Statement

Visual estimates of mineral abundance should never be considered a proxy or substitute for laboratory analyses where concentrations or grades are the factor of principal economic interest. Visual estimates also potentially provide no information regarding impurities or deleterious physical properties relevant to valuations.

Competent Person Statement

The information in this announcement relating to Exploration Results is based on information compiled by Steve Warriner, who is the Group Exploration Manager of Estrella Resources, and a member of The Australasian Institute of Geoscientists, and based on information compiled by Beau Nicholls, who is a Director of Sahara Natural Resources and is the Exploration Manager for Estrella Timor-Leste, and a fellow of The Australasian Institute of Geoscientists. Mr Warriner and Mr Nicholls have sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves". Mr Warriner and Mr Nicholls consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.



APPENDIX 1 JORC TABLE 1 – TIMOR-LESTE EXPLORATION

Section 1 - Sampling Techniques and Data

Criteria	JORC Code explanation Commentary	
Sampling techniques	 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 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 (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. Determination of mineralisation has bee based on geological mapping, visu mineral estimates and confirmation metallic concentration using a Bruker S. Titan Portable XRF instrument. Initial rock-chip samples were taken an pXRF determinations on uncrushe samples made in the field. Samples are then brought back to Dill are pulverized to 100% passing 1mm before the powder is again subjected to PXRF. A sub-sample of 150g is then dispatched through customs and quarantine Australia to ALS in Malaga for multiple element analysis. Exported samples are analysed using a acid digest, ME-XRF26s, ME-MS61L is ALS in Malaga. 	al of 31 and ed and re ed in tti- 4- at
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). No drilling has been undertaken to date. 	
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. No drilling has been undertaken to date. The installation of pulverising sample pr facilities in Timor-Leste ensures samp representivity when presented to the PXRF. 	ep ple
Logging	 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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	nd
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 Sample sizes are appropriate to the grasize of the mineralisation which manganese oxides is very fine. The exploration program is in its very ear stages and initial sample sizes are appropriate to the grasize of the mineralisation which manganese oxides is very fine. The exploration program is in its very ear stages and initial sample sizes are appropriate to the grasize of the mineralisation which manganese oxides is very fine. The exploration program is in its very ear stages and initial sample sizes are appropriate to the grasize of the mineralisation which manganese oxides is very fine. The exploration program is in its very ear stages and initial sample sizes are appropriate to the grasize of the mineralisation which manganese oxides is very fine. 	in Ty pt / ot



Critorio	IODC Code explanation	Commentant
Criteria	JORC Code explanation sub-sampling stages to maximise	Commentary
	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.	
Quality of	The nature, quality and appropriateness of	Three sample types are quoted:
assay data	the assaying and laboratory procedures	1 – Uncrushed Field PXRF (a fresh mineral
and	used and whether the technique is	face is chipped from samples prior to the
laboratory tests	considered partial or total.	 XRF determination in the field) 2 – Crushed PXRF (samples from above
16313	For geophysical tools, spectrometers, handheld XRF instruments, etc. the	 2 – Crushed PXRF (samples from above are taken back to Dili, 1-3kg of material,
	parameters used in determining the analysis	and crushed/pulverised to 100% passing
	including instrument make and model,	1mm in the company's dedicated sample
	reading times, calibrations factors applied	preparation facility, and 15g of powder is then taken for PXRF analysis. Crushed
	and their derivation, etc.Nature of quality control procedures adopted	PXRF determinations have been
	(e.g. standards, blanks, duplicates, external	subjected to repeat samples, standards
	laboratory checks) and whether acceptable	and confirmation of accuracy by laboratory
	levels of accuracy (i.e. lack of bias) and	analysis.3 – Assay, where 150g of material is
	precision have been established.	exported to ALS in Malaga via quarantine
		in Darwin. Standards and blanks have not
		been included in samples sent to Australia.
		The company relies on the internal standards and blanks used by ALS.
		Samples are being analysed at ALS in
		Malaga using a 4-acid digest, ME-ICP for
		61 elements and all samples are also
		being tested for Pt, Pd and Au by fire assay and ICP-MS finish on a 50g sub-sample.
		 Currently, uncrushed field samples are
		being analysed by PXRF on location. The
		Cautionary statement is included when
Verification	The verification of significant intersections	assessing pXRF.No prior modern exploration has been
of sampling	by either independent or alternative	conducted in the area.
and	company personnel.	No adjustments to accound to your
assaying	The use of twinned holes.	 No adjustments to assay data were undertaken save where the ME-XRF26s
	Documentation of primary data, data entry	method reports MnO%.
	procedures, data verification, data storage (physical and electronic) protocols.	Mn% is derived by dividing MnO by 1.2912
	 Discuss any adjustment to assay data. 	Will /6 is delived by dividing willO by 1.2912
Location of	Accuracy and quality of surveys used to	Timor personnel use GRID software on
data points	locate drill holes (collar and down-hole	mobile phones to record GPS locations,
	surveys), trenches, mine workings and other	sampling data and photographs. Mobile
	locations used in Mineral Resource estimation.	phone accuracy (shown during coordinate capture) is set at a maximum tolerance of
	Specification of the grid system used.	5m.
	Quality and adequacy of topographic	Topographic control is accomplished
	control.	using 30m spaced satellite point data.
Data spacing and	Data spacing for reporting of Exploration Page 1/15 Page 1/	No systematic sampling has been conducted at this early stage.
ana distribution	Results. Whether the data spacing and distribution is	conducted at this early stage.
2.2	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.	
Orientation	Whether the orientation of sampling	No orientation-based sampling bias has
of data in	achieves unbiased sampling of possible	been identified.
relation to	structures and the extent to which this is	
geological structure	known, considering the deposit type. If the relationship between the drilling	
3	orientation and the orientation of key	
	i includion and the chemical of Key	



Criteria	JORC Code explanation	Commentary
	mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	The measures taken to ensure sample security.	 Exported samples are in the possession of ESR personnel from field collection to customs submission in Darwin. Possession then passes to the Department of Agriculture, Forestry and fisheries where Northline Couriers pick up the samples and take them by road to ALS in Malaga. Non-exported samples remain with ESR personnel past Darwin Airport Customs.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	 No independent audit or review has been undertaken. Internal QAQC involves frequent standard checks on the PXRF instrument to determine any drift of accuracy. Additional checks involve analysis of any assayed samples in comparison to the crushed and uncrushed in-country PXRF determinations so as to provide confidence in in-country analysis.



Section 2 - Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary		
Mineral	Type, reference name/number, location and	Exploration and Evaluation Concessions		
tenement and	ownership including agreements or material	MEL2023-CA-ZA001, MEL2023-CA-		
land tenure	issues with third parties such as joint	ZA002 and MEL2023-CA-ZA003 are		
status	ventures, partnerships, overriding royalties,	awarded for two years to Estrella Murak		
	native title interests, historical sites,	Rai, forming the joint-venture between Estrella Resources Representante		
	wilderness or national park and environmental settings.	Permanente (70%) and Murak Rai Timor		
	 The security of the tenure held at the time 	(30%).		
	of reporting along with any known	 Reconnaissance Permits ESR-RP-01, 		
	impediments to obtaining a license to	ESR-RP-02, ESR-RP-03, ESR-RP-04,		
	operate in the area.	ESR-RP-05, ESR-RP-06, ESR-RP-07		
		and ESR-RP-08 are awarded to Estrella Resources Limited Representante		
		Permanente (100%)		
		Exploration and Evaluation Concessions		
		ESR-BA-01, ESR-BA-02 and ESR-BA-03		
		are awarded for four years to Estrella		
		Murak Rai, forming the joint-venture between Estrella Resources		
		Representante Permanente (70%) and		
		Murak Rai Timor (30%).		
		Estrella Resources Limited		
		Representante Permanente is registered		
		in Timor-Leste and is a wholly-owned		
		subsidiary of Estrella Resources Limited (Australia).		
		 All of the Concessions and Permits are 		
		current and in good standing.		
Exploration	Acknowledgment and appraisal of	The first exploration was conducted by		
done by other	exploration by other parties.	Allied Mining Corporation in 1937 during		
parties		which mineral potential was discovered. Very small-scale mining of manganese,		
		gold and construction material was		
		conducted. The exploration was not		
		systematic and hampered by difficult		
		access.		
		Other work in the early 2000's has been conducted by the Position Factorial.		
		conducted by the Pacific Economic Cooperation Council -PECC Minerals		
		Network to assist Timor-Leste to		
		understand and develop its minerals		
		potential.		
		Local geologists and companies have		
		sporadically explored the area however there has been no documentation		
		collected nor systematic exploration to		
		quantify mineral occurrences.		
		No minerals drilling has taken place.		
		No close-spaced geophysics has taken		
		place.		
		 No systematic, modern exploration has taken place. 		
		 The Geological Institute of Timor-Leste 		
		(IGTL) has recently (and still is)		
		conducting stratigraphic analysis and		
		fossil dating to reconstruct the geological		
Geology	Denosit type, declodical softing and style of	history of Timor-Leste. The current Concessions and Permits		
Jeology	Deposit type, geological setting and style of mineralisation.	host three main forms of manganese		
	ioranoadom	mineralisation.		
		Primary mineralisation can be found in		
		stratigraphic banded cherts and banded		
		irons formed from direct precipitation of		
		manganese onto the sea floor. Evidence for both microbial and inorganic		
		processes exist.		
		 Secondary mineralisation exists as a 		
		supergene blanket above the cherts		
		where they have been exposed to		



Criteria	JORC Code explanation	Commentary
	·	chemical weathering.
		 Tertiary mineralisation exists where high rainfall and erosion has sorted and
		concentrated detrital manganese into
		river paleo-channels. • Alluvial gold mineralisation has been
		reported in the area however no
		exploration has been undertaken.
		 Estrella will use and expand upon the current known stratigraphy to evaluate
		and document mineralisation styles and
		relate them back to the tectono- stratigraphic genesis of the area.
Drill hole	A summary of all information material to the	No drilling has been undertaken in the
information	under-standing of the exploration results	area.Sample locations are shown in the body of
	including a tabulation of the following information for all Material drill holes:	the text.
	 easting and northing of the drill hole 	
	collar • elevation or RL (Reduced Level –	
	elevation above sea level in metres) of	
	the drill hole collar	
	dip and azimuth of the holedown hole length and interception depth	
	 hole length 	
	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.	
Data	In reporting Exploration Results, weighting	Exploration results with all relevant
aggregation	averaging techniques, maximum and/or	drillhole information are reported in the
methods	minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually	body of the text.No aggregation methods have been used.
	Material and should be stated.	 Metal equivalent values have not been
	Where aggregate intercepts incorporate short langths of high grade results and	used.
	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 agriculant values should be clearly.	
	metal equivalent values should be clearly stated.	
Relationship	These relationships are particularly	Any relationships have been discussed
between mineralisation	important in the reporting of Exploration Results.	within the body of the text.
widths and	 If the geometry of the mineralisation with 	
intercept	respect to the drill hole angle is known, its	
lengths	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. 'down hole length, true width not known').	
Diograms	,	Delevent die greene heur heer het !
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be	 Relevant diagrams have been included within the main body of text.
	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.	
Balanced	 Accuracy and quality of surveys used to 	No new information has been withheld.
Reporting	locate drill holes (collar and down-hole surveys), trenches, mine workings and	
	other locations used in Mineral Resource	
	estimation.	
	 Where comprehensive reporting of all Exploration Results is not practicable, 	
	Exploration Results to Not placticable,	



Criteria	JORC Code explanation	Commentary
	representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	
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.	 No other substantive data exists as the program is in its early stages. All observations are discussed within the body of the text.
Further work	 The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large- scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 Further work by ESR will include systematic mapping and sampling along with stratigraphic and structural classification. Additional work on specific areas will be included under the heading Next Steps in the body of the text when appropriate to do so.