18 October 2022

Spargoville 5A Resource Estimate Upgrade

HIGHLIGHTS

- → The majority of the Spargoville 5A Resource now classified as Measured, grading 2.8% Ni
 - → **High confidence** level in the geology, mineralogy and bulk densities
 - → Deposit remains open at depth
- → Optimisation work to commence immediately to inform a Definitive Feasibility Study targeting 16,000t of Massive Sulphide grading 7.8% Ni below the existing pit
- → Contract negotiations in final stages so the 2k-4k bulk sample can be mined, transported, processed and the **nickel sold**
- → Testing has indicated that vast majority of nickel can be successfully extracted
- → 5A Pre-mining site works have commenced Monday 17 October 2022

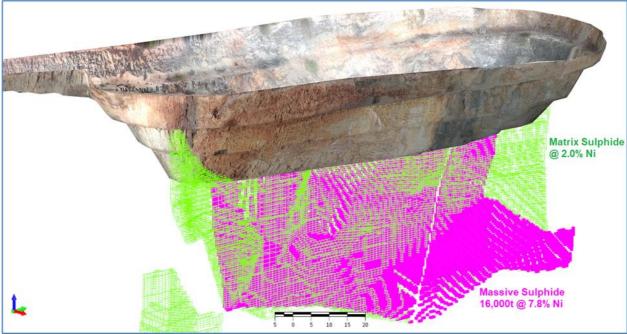


Figure 1: Location of Massive Sulphide averaging 7.8% Ni below the existing 5A Open Pit

Estrella Managing Director Chris Daws commented:

"I am pleased to report this resource upgrade offers continued evidence of the quality of the Spargoville 5A resource. Compared to the 2019 MRE, the upgrade highlights a shift of bulk tonnages into the Measured Resource category in the area immediately below the open pit which we are targeting for production and an increase in the amount of Transitional material which had previously been classified as Fresh has been outlined.

Following the upgrade, we have now begun optimisation work to inform a Definitive Feasibility Study targeting 16,000 tonnes of Massive Sulphide grading 7.8% nickel below the existing 5A open pit. We remain firmly on target in bringing Spargoville into operation next year should the DFS be favourable.

As has been repeated to me by many a miner, grade is king! 5A delivers on this metric and at current nickel prices is certainly worth pursuing development."

Estrella Resources Limited (ASX: ESR) (Estrella or the Company) is pleased to announce an upgrade to the 5A Mineral Resource Estimate (MRE) at the Company's Spargoville Nickel Project, located approximately 20km Southwest of Kambalda, Western Australia.

The update takes into account recent metallurgical drilling below the existing 5A open pit conducted from May to July this year which assisted in defining mineralisation types and depths. The drilling also firmed up massive and matrix sulphide widths, mineralogy and bulk densities which are required to be well understood prior to mining.

The updated MRE is presented below in Table 1. The upgrade in comparison to the 2019 MRE saw the bulk of tonnes shift into the Measured Resource in the area below the pit which Estrella is targeting for production. There was also an increase in the amount of Transitional material.

Table 1: 5A October 2022 Mineral Resource Estimate (0.5% Ni Cut-off Grade)

	Measured Mineral Resource						
Type	Tonnage	Ni	Cu	Со	Ni	Cu	Co
	kt	%	%	%	t	t	t
Oxide	4	1.6	0.17	0.04	70	10	2
Transition	53	3.0	0.22	0.07	1,570	120	40
Total	60	2.8	0.22	0.06	1,640	130	40
			Indicate	ed Mineral R	esource		
Type	Tonnage	Ni	Cu	Со	Ni	Cu	Co
	kt	%	%	%	t	t	t
Oxide	20	8.0	0.06	0.02	150	10	4
Transition	17	1.3	0.08	0.03	220	10	5
Total	36	1.0	0.07	0.02	370	20	10
			Inferre	d Mineral Ro	esource		
Type	Tonnage	Ni	Cu	Со	Ni	Cu	Co
	kt	%	%	%	t	t	t
Oxide	4	0.7	0.12	0.02	30	10	1
Transition	6	0.7	0.25	0.02	40	10	1
Fresh	20	1.4	0.11	0.03	280	20	5
Total	30	1.2	0.14	0.02	350	40	10
				Mineral Res	1		
Type	Tonnage	Ni	Cu	Со	Ni	Cu	Со
	kt	%	%	%	t	t	t
Oxide	28	0.9	0.09	0.02	250	20	6
Transition	76	2.4	0.19	0.05	1,840	150	40
Fresh	20	1.4	0.11	0.03	280	20	5
Total	124	1.9	0.15	0.04	2,370	190	50

Note: Refer to Competent Person Statement below.

Estrella is particularly focussed on the 16kt of Massive grading 7.8% Ni which lies below the pit floor and is accessible via a pit cut-back. The relative volumes of material are shown in Table 2 and Figure 1.

Table 2: October 2022 Mineral Resource Estimate - Mineralisation Type (0.5% Ni Cut-off)

	Total Mineral Resource						
Type	Tonnage kt	Ni%	Cu%	Co%	Ni T	Cu T	Co T
Disseminated	76	0.6	0.07	0.02	490	50	10
Matrix/Breccia	32	2.0	0.14	0.03	650	40	10
Massive	16	7.8	0.59	0.19	1,230	90	30
Total	124	1.9	0.15	0.04	2,370	190	50

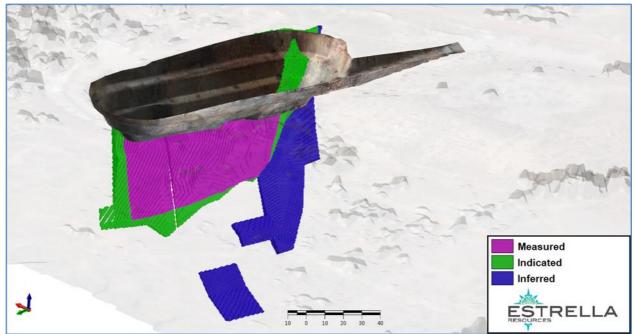


Figure 2: Spargoville 5A Open Pit digital model with recent diamond drilling

Mineralogical analysis of the core showed the bulk of the nickel in the massive sulphide below the open pit resides in violarite with additional nickel coming from sulphates, carbonates and then silicates. This confirmed the Company's view that traditional flotation would suffer unacceptable soluble nickel losses as highlighted by flotation test work. Massive and matrix mineralogy is shown in Figure 3 below. Sulphides are predominantly violarite with minor pyrite and marcasite. The sulphates are also nickel bearing.

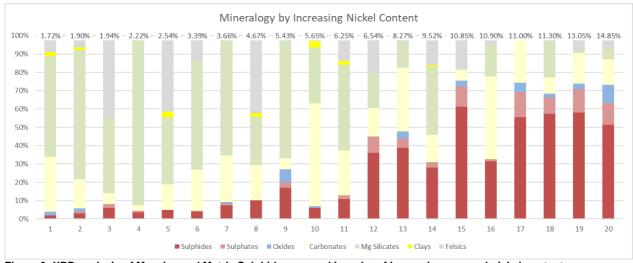


Figure 3: XRD analysis of Massive and Matrix Sulphide arranged in order of increasing assayed nickel content

The alternative treatment method sought by Estrella has been shown through testing that the vast majority of nickel can be successfully extracted, including the silicate and soluble fractions. The 2,000t to 4,000t bulk sample will help the Company to quantify nickel, copper and cobalt recoveries for the DFS.

Inclement weather and a shortage of suitable machinery and contractors in the Goldfields has seen a slight delay of the extraction of the bulk sample. The Company expects the sample to be mined in the current quarter with pre-mining site works already commenced with ramp access, pit floor preparation and ore mark-up underway. A short drill-blast program followed by extraction of the first ore bench will be undertaken by local contractors under the supervision of Company representatives and consultant mining specialist. High grade nickel ore will be placed onto the 5B ROM pad where it will be crushed/screened to required size before being transported by road train to the desired treatment facility for processing and recovery of the nickel metal.

5A Mineral Resource Estimate Details

Geology and Geological Interpretation

The Spargoville Project area lies within the Coolgardie Domain, the western most domain of the Kalgoorlie Greenstone Terrain, which stretches northwards from Norseman to Menzies. The Project is situated within a dominantly north-south striking belt of Archaean greenstone rocks that extend north from the Widgiemooltha Dome. The 5A deposit is characterised as a Kambalda style (komatiite hosted) nickel sulphide deposit.

Nickel mineralised bodies at Spargoville commonly form as lenses of massive sulphide up to several metres thick within ultramafic rocks at or near the ultramafic / meta-basalt contact. A halo of disseminated, lower-grade, mineralisation often extends up to 20m width into the ultramafics and rare veins of sulphide may be found in the underlying meta-basalt. The major ore bodies are all lensoidal with limited extent down dip and along strike, suggesting structural control in the form of embayment structures or depressions in the meta-basalt.

Sampling and Sub-Sampling Techniques

Most of the drilling, sampling and assaying was completed by Selcast Exploration and Amalg Resources. Core was sampled at 1m intervals or to geological contacts and RC samples were collected at 1m intervals from the rig mounted splitter.

For ESR drilling, RC drill holes were sampled by 1m cone split composites through mineralisation and 4m spear samples in unmineralised material, producing a nominal 3kg to 5kg representative sample. RC drilling was 5 ½ inch in diameter. Diamond drill holes were carried out with HQ or NQ core diameter, using standard tube. Diamond holes were sampled at 1m intervals or to geological contacts. Core was cut in half with a core saw.

Drilling Techniques

ESR drilling included RC drilling with 5.5 inch hammer and diamond core of HQ and NQ diameter with 3m standard tubes.

Classification Criteria

The 5A Mineral Resource was classified as Measured, Indicated and Inferred Mineral Resource based on data quality, sample spacing, and lode continuity. The Measured Mineral Resource was defined in the core of the deposit that was drilled with close spaced RC and diamond drilling of less than 10m by 10m. The Indicated Mineral Resource was defined within areas of close spaced RC and diamond drilling of less than 20m by 20m, and where the continuity and predictability of the lode positions was good. The Inferred Mineral Resource was assigned to areas where drill hole spacing was greater than 20m by 20m, where small, isolated pods of mineralisation occur outside the main mineralised zones, and to geologically complex zones.

Sample Analysis Method

Sample analysis was undertaken at Intertek laboratory in Kalgoorlie and ALS laboratories in Perth. Nickel and multielement analysis were performed by 4 acid digest and a combination of ICP-MS and ICP-OES analysis techniques. Gold and PGEs were determined by a 25g fire assay fusion, followed by aqua regia digest and ICP-MS finish.

Estimation Methodology

The mineralisation was constrained by wireframes prepared using a variety of cut-offs for the various sulphide mineralisation types. Disseminated sulphide was domained using a nominal 0.4% nickel cut-off, plus geological logging, matrix sulphide was domained using a nominal 1.0% nickel cut-off, plus geological logging; and semi-massive to massive sulphide mineralisation was domained using a 4.0% nickel cut-off, plus geological logging. Following a review of the population histograms and log probability plots and noting the low coefficient of variation statistics, it was determined that the application of high-grade cuts was not warranted.

The block model parent block dimensions used were 10m NS by 5m EW by 5m vertical with sub-cells of 0.625m by 0.625m by 0.625m. The parent block size dimension was selected on the results obtained from KNA that suggested this was the optimal block size for the 5A dataset. Composites in areas of drill hole spacing of 10m by 10m or less were interpolated into a block size of 5m by 5m by 2.5m. The Mineral Resource block model was created and estimated in Surpac using Ordinary Kriging ("OK") grade interpolation. An orientated 'ellipsoid' search was used to select data and adjusted to account for the variations in lode orientations, however all other parameters were taken from the variography. Up to three passes were used for each domain. First pass had a range of 30m, with a minimum of 6 samples. For the second pass, the range was extended to 60m, with a minimum of 4 samples. For the third pass, the range was extended to 100m, with a minimum of 2 samples. A maximum of 16 samples was used for all passes, with a maximum of 4 samples per hole.

A total of 404 bulk density measurements were taken on core samples collected from diamond holes drilled at the deposit using the dry weight / wet weight technique. Bulk densities were assigned a density versus nickel regression equation for transitional and fresh mineralisation. Bulk densities for the oxide mineralisation were assigned in the block model based on the average of the measurements of 2.7t/m³. Average waste densities were assigned based on lithology and weathering from measurements.

Cut-off Grade

The Statement of Mineral Resources has been constrained by the mineralisation solids and reported above a cut-off grade of 0.5% nickel.

Mining and Metallurgical Methods and Parameters

It is assumed that the 5A deposit can be mined using open pit techniques. A high-level optimisation analysis shows that this can be achieved at current nickel prices and assuming the 5A material is treated by total ore digestion.

Metallurgical testing has been conducted on samples obtained from the 5A deposit. Testing indicates that the 5A material shows more than 90% recovery utilising total digestion.

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

FURTHER INFORMATION CONTACT

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Competent Person Statement

The Mineral Resource has been compiled under the supervision of Mr. Shaun Searle who is a director of Ashmore Advisory Pty Ltd and a Registered Member of the Australian Institute of Geoscientists. Mr. Searle has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code.

All Mineral Resources figures reported in the table above represent estimates as at October 2022. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.

Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).

The information in this announcement relating to Exploration Results is based on information compiled by Steve Warriner, who is the Exploration Manager of Estrella Resources, and a member of The Australasian Institute of Geoscientists. Mr. Warriner has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves".

Both Mr. Searle and Mr. Warriner consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

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.

JORC Table 1

Section 1 Sampling Techniques and Data

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. 	 The Spargoville landholding has been drilled by DD (surface and underground), RC, RAB and Percussion and air core, drilling both for nickel and gold. DD and RC sampling techniques conducted prior to this drilling program are not known but are assumed to be industry standard at the time of collection. Pre-this program, data was compared to historic data and the two datasets generally correlated well. From KWC series holes reported in this announcement, RC drill holes were sampled by 1m cone split composites through mineralisation and 4m spear samples in unmineralised material. RC drilling was 5 ¼ inch in diameter. For ESR RC holes, sampling was cone split from 1m composite bulk samples, producing a nominal 3kg to 5kg representative sample. RC samples ranged from 4m in waste material and 1m in or near mineralisation. Nickel mineralisation consists of contact massive sulphides (violarite, pyrite, pyrrhotite, pentlandite, chalcopyrite) typically 1.5m to 4m thick, overlain by matrix sulphides and disseminated sulphides. At 5A the sulphides have been weathered to produce supergene sulphides of pyrite and violarite and secondary oxide material. Most of the drilling, sampling and assaying was completed by Selcast Exploration and Amalg Resources. It is unknown how samples were collected, but it is assumed to be industry standard at the time. The data from this drilling program compared well with drilling conducted by previous explorers. For this drilling program, representative samples from RC drilling were collected and sent to Intertek laboratory in Kalgoorlie for analysis. Intertek crushed and pulverised the samples in entirety and took a 50g pulp for analysis. For ESR drilling, nickel and multielement analysis was performed by 4 acid digest and ICP-MS finish. Minor copper, cobalt, and significant arsenic occur in the nickel mineralisation. XRD analysis was performed in Perth by ALS Metall
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	The database is comprised of DD samples, RC samples and RAB/AC drilling samples. DD drilling included NQ, HQ and BQ diameter core.

Criteria	JORC Code explanation	Commentary
	what method, etc).	
Drill sample recovery Logging	 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. Whether core and chip samples have been 	RC sample recoveries were inferred from sample weights reported by the laboratory for this program. No sample weight information is available for historic drilling. No relationship exists between sample recovery and grade. Diamond core was measured and recoveries calculated. Detailed drill hole logs are available for
	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.	 97.4% of the historic drilling and 100% of the new drilling. Prior to the ESR drilling, it is unknown whether duplicates, standards and blanks taken for QA/QC purposes were taken. Hard copy sample logging sheets were kept. This includes samples numbers for duplicates, standards and blanks taken for QA/QC purposes. All data are available for the work conducted from the current program. The logging is of a detailed nature and of sufficient detail to support the current reporting of a Mineral Resource.
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. 	 DD sampling techniques are unconfirmed for historic drilling. For the ESR RC drilling, samples were collected by a rig mounted cyclone and cone splitter. For the ESR RC drilling, sample condition fields to record moisture and sample recovery is included in the sampling log sheet and populates the assay table of the database. For the ESR RC drilling, sample preparation is appropriate for RC drilling as per industry standard practices for managing RC samples. For the ESR DD drill holes were carried out with HQ or NQ core diameter, using standard tube. DD holes were sampled at 1m intervals or to geological contacts. Core was cut in half with a core saw. For the ESR drilling, quality control procedures included the inclusion of field duplicates, standard samples and blank samples into the sampling stream for laboratory analysis. Standards were placed every 30 samples with a combination of blank, low-grade and high-grade standards. Dependent on the geology, a suitable standard was selected. Blank standards (OREAS22C) were generally placed after a mineralised zone and routinely every 25 samples. Duplicate sampling was undertaken for the RC drilling every 20 samples. Host rock for nickel mineralisation is mainly a serpentinite lens at the base of an ultramafic sequence. It is assumed that prior to the current program sampling would have been appropriate for the style of mineralisation; and from the current program, it is appropriate.

Criteria	JORC Code explanation	Commentary
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. 	 For the ESR drilling, quality control procedures included the inclusion of field duplicates, standard samples and blank samples into the sampling stream for laboratory analysis. One standard, blank and field duplicate were inserted into the sample stream every 30 and 20 samples respectively. These were offset through the sampling stream and placed in areas of interest i.e. high-grade standards and blanks in the mineralised zone where possible. The QAQC results have been assessed and are acceptable. No geophysical methods or hand-held XRF units have been used for determination of grades in the Mineral Resource.
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. 	 Significant intersections were visually field verified by company geologists and Shaun Searle of Ashmore during the 2019 site visit. Multiple intersections reported have been checked back to original logs and assay data. No twin holes have been drilled. Drill hole data were sourced from digital sources and original hard-copy sampling and assay records and imported into a central electronic database. Datashed software was used to validate and manage the data. No adjustments have been made to the assay data.
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 control. 	 Surface topography is derived from drill hole collars and the historical survey control of the Spargoville open pit. The new holes were set out and picked up by Cardno Surveys and downhole surveyed by ABIMS Solutions. Prior to the current program it is assumed that the majority of the drill holes were down hole surveyed by a single shot tool and by collar measurement with a clinometer and compass. This was rarely recorded in the database. From the current program of holes were down hole surveyed by a gyro. Prior to ESR drilling, original surveying was undertaken in Kambalda Nickel Operations Grid (KNO) and from the current program in GDA94 grid.
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 5A area has been drilled on a regular pattern and spacing by various previous operators. The average spacing is estimated to be approximately 10m by 10m within the 5A mine area. The drill data spacing, and sampling is adequate to establish the geological and grade continuity required for the current announcement. Samples were composited to 1m intervals prior to estimation.
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 	 The drill line and drill hole orientation are oriented as close as practicable to perpendicular to the orientation of the general mineralised orientation. Most of the drilling intersects the mineralisation at close to 90 degrees ensuring intersections are representative

Criteria	JORC Code explanation	Commentary
	introduced a sampling bias, this should be assessed and reported if material.	of true widths. KWC0004 and KWC0005 are the exception; these holes were purposefully drilled at a low angle to mineralisation for the purpose of collecting bulk sample for metallurgical test work. • No orientation based sampling bias has been identified in the data.
Sample security	The measures taken to ensure sample security.	 Sample security measures are unknown for previous drilling. For the ESR drilling, sample security measures adopted include the daily movement of samples to the Kalgoorlie laboratory, where samples were securely stored before processing. For the ESR drilling, RC split samples were transported from site daily and delivered to the accredited laboratory depot in Kalgoorlie for preparation and analysis. Industry standard sample security standards were followed for ESR drilling. Reports and original log files indicate that a thorough process of logging, recording, sample storage and dispatch to labs was followed at the time of drilling.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	 Shaun Searle of Ashmore reviewed drilling and sampling procedures during the 2019 site visit and found that all procedures and practices conform to industry standards. For the ESR drilling, sample data reviews have included an inspection and investigation of all available paper and digital geological logs to ensure correct entry into the drill hole database Visualisation of drilling data was completed in three-dimensional software (Micromine and Surpac), and QA/QC sampling review using Maxwell Geoservices QAQCR Software was undertaken.

Section 2 Reporting of Exploration Results

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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 license to operate in the area. 	 ESR has entered into agreements to hold a 100% interest in all base metal rights to the project. The area is held under M15/395. The tenement is in good standing with no known impediments.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Between 1966 and 1971 Australian Selection Pty Limited (later Selcast Exploration) conducted regional exploration throughout the Spargoville area ("WS5" series holes). During this period, numerous prospective targets were identified including the 5A, 5B and 5D deposits. During 1974, Selcast commenced underground mining at the 5D deposit which was renamed Andrews. Prior to the cessation of mining at Andrews in 1979, a decline was developed into the footwall of the 5B ore body, however elevated arsenic levels in

Criteria	IOPC Code explanation	Co	mmontory
Cilicila	JORC Code explanation	- 60	mmentary the ore and falling nickel prices prevented
			production from the mine at this time.
			Despite substantial deep diamond drilling
			at 5A the tonnage of the nickel sulphide
			ore body defined did not warrant mining at
		•	the time. In the early 1980s, BP Minerals Australia
		•	acquired Selcast and continued
			exploration in the Spargoville area, to
			determine the potential for economic gold
			mineralization. BP Minerals re-assayed
			existing holes drilled by Selcast that
			reported gold intersections. BP completed
			a series of percussion holes across the lease.
		•	BP failed to identify a significant gold
			resource and in 1990 and sold the lease
			to Spargoville Nickel Pty Ltd. Spargoville
			Nickel Pty. Ltd. drilled three metallurgical
			holes at the 5B deposit and nine near-
			surface, RC drill holes at the 5A deposit ("P" series holes).
		•	In 1993 the lease was vendored to Amalg
		٦	Resources NL ("Amalg'). Amalg
			commenced open pit mining of the 5B
			deposit in 1995, targeting a small oxide
			gold resource previously identified by BP.
			A total of 9,700 tonnes of ore was mined
			from the 35m deep pit at a sampled grade of 2.77g/t Au.
		•	Amalg also completed 15 underground
			diamond holes from the 5B decline during
			1997 and re estimated a mineral resource
			for this deposit of.
		•	Amalg also completed eight diamond
			(5AM-1 to 5AM-8) and 10 RC (5ARC09 to 5ARC18) holes at the 5A deposit between
			1993 and 1997 aimed at defining an oxide
			nickel resource.
		•	Between July and October 1997 Amalg
			mined a 30m deep pit at the 5A deposit. A
			total of 34,560 tonnes of oxide nickel ore
			was mined and stockpiled at a sampled
		•	grade of 2.36% Ni. In December 1999 Amalg conducted a 10
		•	hole vertical RC drilling program (298m)
			at the 5A pit (5ARC19 to 5ARC28) to
			generate sufficient quantities of nickel
			sulphide mineralization for metallurgical
			work on the transitional ore. From this
			work a new Mineral Resource Ni was estimated.
			In 2001 regional multi-client Norseman-
		<u> </u>	Wiluna 400m line spaced aeromagnetic
			data and digital aerial images covering
			tenement M15/395 were purchased to
			identify regional lithological and structural
			trends to assist with targeting and planning of exploration programs.
			A 200m by 100m moving loop survey was
		٦	completed across the tenement to test for
			massive nickel sulphide mineralization
			along unexplored areas of the basal
			contacts. The surface TEM program
			consisted of moving loop, in-loop and
			slingram surveys. Fixed loop surveys were used over selected moving loop
			TEM targets and the known nickel
			deposits (5A, 5B, and 5D). This work
			indicated the surface EM failed to give any
1			significant anomaly over the known

Criteria	JORC Code explanation	Commentary	
		deposits. Accurate surveys were completed of the 5A and 5B pits and mullock dumps and 5E decline that could be converted to AMC coordinates. Approximately 20,000t of stockpiled nickel gossan from the 5A open cut grading approximately 2.6% Ni was sold to OMG Cawse for treatment through the acid pressure leach ("PAL") plant a Cawse. The existing nickel resources at 5A, 5E and Andrews were reassessed Resource reverse circulation (RC) and Diamond drilling were completed at 5A and 5B and metallurgical geotechnica and mine design studies completed on the 5A deposit. In addition, heritage, flora and fauna studies were completed fo feasibility study to open cut mine the 5A deposit to remove the transitional and sulphide mineralisation to a depth ar approximately 70 m below surface. The feasibility study showed that the transitional ores at 5A or 5B were no suitable for either PAL or conventional leach circuits and that the Activox process was the most likely process option.	dittideett Bl. dd neettileettileettilee
Geology	Deposit type, geological setting and style of mineralisation.		ec e.eaeoeannenden esannssi es kkdeo
Drill hole information	A summary of all information material to the under-standing of the exploration results	Exploration results are not being reported. A table of all drill hole collars	

Criteria	JORC Code explanation	Commentary
	including a tabulation of the following information for all Material drill holes: • 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 hole • down 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.	with all the listed information is shown in the Appendices. • All information has been included in the appendices. No drill hole information has been excluded.
Data aggregation methods	 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. 	 Exploration results are not being reported. Not applicable as a Mineral Resource is being reported. No metal equivalent values are being reported.
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 (e.g. 'down hole length, true width not known'). 	 The drill line and drill hole orientation is oriented as close to 90 degrees to the orientation of the anticipated mineralised orientation as practicable. The majority of the drilling intersects the mineralisation between 70 to 80 degrees.
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.	Relevant diagrams have been included within the Mineral Resource report main body of text.
Balanced Reporting	 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. 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. 	 All hole collars were surveyed in MGA94 Zone 51 grid using differential GPS. All RC holes were down-hole surveyed with a north-seeking gyroscopic tool. Exploration results are not being reported.
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	 Results were estimated from drill hole assay data, with geological logging used to aid interpretation of mineralised contact positions. Geological observations are included in the report. Multi-element assay suites have been analysed and arsenic has been identified as a potentially deleterious element.

Criteria	JORC Code explanation	Commentary
	substances.	
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. 	 and mining studies are planned. There is potential for possible extensions in the down plunge position to the current mineralisation.

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity Site visits	 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. Data validation procedures used. Comment on any site visits undertaken by 	 The data base has been systematically audited by ESR geologists. All drilling data has been verified as part of a continuous validation procedure. Once a drill hole is imported into the data base a report of the collar, down-hole survey, geology, and assay data are produced. This is then checked by a ESR geologist, and any corrections are completed by the data base manager. A site visit was conducted by Shaun
	the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case.	Searle of Ashmore during September 2019. Shaun inspected the deposit area, historical pit, drill chips and subcrop. During this time, notes and photos were taken. Discussions were held with site personnel regarding drilling and sampling procedures. No major issues were encountered. • A site visit was conducted, therefore not applicable.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. Nature of the data used and of any assumptions made. The effect, if any, of alternative interpretations on Mineral Resource estimation. The use of geology in guiding and controlling Mineral Resource estimation. The factors affecting continuity both of grade and geology. 	 The confidence in the geological interpretation is considered to be good and is based on visual confirmation in the open pit and within drill hole intersections. Geochemistry and geological logging has been used to assist identification of lithology and mineralisation. The 5A deposit is characterised as a Kambalda style (komatiite hosted) nickel sulphide deposit. Nickel mineralised bodies commonly form as lenses of massive sulphide up to several metres thick within ultramafic rocks at or near the ultramafic / meta-basalt contact. A halo of disseminated, lower-grade, mineralisation often extends up to 20m width into the ultramafics. Infill drilling has supported and refined the model and the current interpretation is considered robust. Observations from the open pit of mineralisation and host rocks; as well as infill drilling, confirm the geometry of the mineralisation. Infill drilling has confirmed geological and grade continuity.
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.	The 5A Mineral Resource area extends over a north-south strike length of 185m (from 6,530,105mN – 6,530,290mN), has a maximum width of 25m (357,905mE – 357,930mE) and includes the 130m vertical interval from 350mRL to 220mRL.

setimation 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. The availability of check estimates, previous estimates takes appropriate account of such data. The assumptions made regarding recovery of by-products. Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mid-drainage characterisation). In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed. Any assumptions about correlation between variables. Description of how the geological interpolation of how the geological interpolation of about extraplication assumptions about correlation between variables. Description of how the geological interpolation of how the resource estimates. Discussion of basis for using or not using grade cutting or capping. The process of validation, the checking process of walidation, the checking process of validation, the checking process of walidation, the checking process of validation, the checking process of validation of	Criteria	JORC Code explanation	Commentary
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Criteria	JORC Code explanation	Commentary
		 Statistical analysis was carried out on data from 8 domains. Following a review of the population histograms and log probability plots and noting the low coefficient of variation statistics, it was determined that the application of high grade cuts was not warranted. Validation of the model included detailed visual validation, comparison of composite grades and block grades by northing and elevation and a nearest neighbour check estimate. Validation plots showed good correlation between the composite grades and the block model grades.
Moisture	 Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content. 	
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	The Statement of Mineral Resources has been constrained by the mineralisation solids and reported above a cut-off grade of 0.5% nickel. The cut-off grade was estimated based on parameters derived from a cut-off grade estimation spreadsheet under the assumptions that the mineralisation would be treated at a facility by undergoing total digestion. Therefore, the 5A deposit has probable prospects for eventual economic extraction. Further geological, geotechnical, engineering and metallurgical studies are recommended to further define the nickel sulphide mineralisation.
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.	Ashmore has assumed that the deposit could be mined using open pit mining techniques. Previous open pit mining has occurred at the 5A deposit.
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 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.	 Metallurgy Pty Ltd laboratory in Midvale, WA for a metallurgical test program aimed at establishing a flow sheet for processing the weathered ore. The high degree of weathering has resulted in about 25% of the nickel being water soluble. The low pH necessitates uneconomical rates of neutralant consumption, but water washing and

Criteria	JORC Code explanation	Commentary
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	separated from copper by the iron cementation process. This process enables high-purity nickel and cobalt recovery although the composite sample tested contains low cobalt concentration. The iron cementation test shows that this process can be used to separate copper and arsenic from nickel and cobalt. This enables a copper-free nickel and cobalt precipitate to be produced. Such a precipitate is valued by nickel processors. This work lead to ESR commencing discussions with alternative facilities that extract nickel through total dissolution. Testing of the 5A material at one of these facilities indicates that more than 90% recovery of nickel can be achieved, with zero credits for additional metals such as copper, cobalt, platinum or palladium. No assumptions have been made regarding environmental factors. ESR will work to mitigate environmental impacts as a result of any future mining or mineral processing.
Bulk density Classification	 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. 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. Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. The basis for the classification of the 	 A total of 404 density measurements were taken from diamond drill core at the deposit, analysed using the dry weight / wet weight technique. It is assumed there are minimal void spaces in the rocks within the 5A deposit. Bulk densities for the oxide mineralisation were assigned in the block model based on the average of the measurements of 2.70t/m³. Bulk densities for transitional and fresh mineralisation were estimated with a regression equation. Average waste densities were assigned based on lithology and weathering from measurements. The Mineral Resource estimate is
	 Mineral Resources into varying confidence categories. Whether appropriate account has been taken of all relevant factors (ie 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). Whether the result appropriately reflects the Competent Person's view of the deposit. 	reported here in compliance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' by the Joint Ore Reserves Committee (JORC). The Mineral Resource was classified as Measured, Indicated and Inferred Mineral Resource based on data quality, sample spacing, and lode continuity. The Measured Mineral Resource was defined in the core of the deposit that was drilled with close spaced RC and DD drilling of less than 10m by 10m. The Indicated Mineral Resource was defined within areas of close spaced RC and DD drilling of less than 20m by 20m, and where the continuity and predictability of the lode

Criteria	JORC Code explanation	Commentary
		positions was good. The Inferred Mineral Resource was assigned to areas where drill hole spacing was greater than 20m by 20m, where small isolated pods of mineralisation occur outside the main mineralised zones, and to geologically complex zones. The input data is comprehensive in its coverage of the mineralisation and does not favour or misrepresent in-situ mineralisation. The definition of mineralised zones is based on high level geological understanding producing a robust model of mineralised domains. This model has been confirmed by infill drilling which supported the interpretation. Validation of the block model shows good correlation of the input data to the estimated grades. The Mineral Resource estimate appropriately reflects the view of the Competent Person.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	 Internal audits have been completed by Ashmore which verified the technical inputs, methodology, parameters and results of the estimate.
Discussion of relative accuracy/ confidence	 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. The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	 The geometry and continuity has been adequately interpreted to reflect the applied level of Indicated and Inferred Mineral Resource. The data quality is good and the drill holes have detailed logs produced by qualified geologists. A recognised laboratory has been used for all analyses. The Mineral Resource statement relates to global estimates of tonnes and grade. The 2022 5A Mineral Resource reports 35,000t at 2.2% nickel for 780t of contained nickel metal at a 0.75% nickel cut-off grade in the 5A mined pit. This compares to the estimated 34,560t at 2.36% nickel for 815t of contained nickel metal from the Amalg production figures.