

ASX Announcement

Revised Mineral Resource upgrades Confidence Level and increases ounces by 19% at Steam Engine

HIGHLIGHTS:

- Revision of May 2020 Mineral Resource delivers a new estimate, comprising 1.6 million tonnes at 2.2 g/t gold for 112,000 ounces, including:
 - Measured & Indicated: 650,000 tonnes @ 2.4 g/t gold (approx. 51,000 ounces)
 - o Inferred: 950,000 tonnes @ 2.0 g/t gold (approx. 61,000) ounces
- New Mineral Resource incorporates results from Stage 1 drilling program (predominantly
 infill with minor extensional drilling). The purpose of the Stage 1 program was to increase
 the geological confidence of shallow portions of the previous Mineral Resource
- Represents increase of 19% in total contained gold and 26% in total Resource tonnes
- Gold lodes open to the north and at depth (Steam Engine Lode) and open in all directions at Eastern Ridge Lode, providing good potential for significant gold deposit
- New Dinner Creek Lode zone (no prior drilling) has potential to add additional 2 km gold lode and have greater thicknesses than the Steam Engine Lode. Drilling of Dinner Creek Lode planned to commence early next year
- Stage 2 extensional drilling program nearing completion, focussed on extending the mineralisation envelope at Steam Engine and Eastern Ridge
- Bull market for gold expected to continue into 2021, with analysts predicting average price above U\$\$2,000/oz (approx. A\$2,600)

Superior Resources Limited (ASX:SPQ) announced today a revised Mineral Resource estimate for its Steam Engine Gold Deposit located 210 kilometres west of Townsville, Queensland.

The Mineral Resource was revised from the previous estimate of May 2020 (ASX Announcement, 4 May 2020), to incorporate results from the 2020 Stage 1 drilling program, which was completed on 18 September 2020. The main objective of the Stage 1 program was to increase the geological confidence of the deposit by conducting infill drilling. A limited amount of extensional drilling was also included in the Stage 1 program.

A Stage 2 drilling program, focused on extending the Mineral Resource commenced on 11 November 2020 and is nearing completion.

The revised JORC 2012 Mineral Resource estimate has delivered an increased level of geological Confidence to Measured, Indicated and Inferred, together with a 19% increase in total in-situ gold ounces, as follows (incl. Table 1):

> 1.6 million tonnes at 2.2 g/t gold (112,000 ounces), including:

Measured Resources: 180,000 tonnes @ 2.6 g/t Au (15,000 ounces)
 Indicated Resources: 470,000 tonnes @ 2.4 g/t gold (36,000 ounces)
 Inferred Resources: 950,000 tonnes @ 2.0 g/t gold (61,000 ounces)

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Superior's Managing Director, Peter Hwang commented:

"The revised Mineral Resource has delivered on the main objective of the Stage 1 drilling program of upgrading the geological confidence of the Resource to a level that can be fed into a Pre-Feasibility Study. Whilst the Stage 1 program was not focused on expanding the mineralisation envelope, we are pleased, to see a 19 percent increase in total ounces.

"We are also pleased to see the completion of two drilling programs within the 2020 field season at Steam Engine. The resulting volume of samples will ensure a busy and productive quarter ahead, including the analysis and reporting of Stage 2 assay results, the finalisation of the Scoping Study and commencement of a Pre-Feasibility Study.

"In addition to Steam Engine, Superior is set for an exciting 2021 with the first ever drilling program at the new and potentially transformative Dinner Creek Lode, field work including drilling at the Greenvale nickel targets and advanced programs on the Company's copper prospects."

"Amid a continued bull market for gold, the Company anticipates strong gains in market value in the year ahead as we deliver on these milestones."

Analyst forecasts point to a bright year ahead for gold, with ANZ Research adopting a 12-month price target of US\$2,100 per ounce and investment bank Goldman Sachs predicting US\$2,300 amid rising inflationary expectations and strong consumer and investor demand.

Revised Mineral Resource Estimate

The revised Steam Engine Mineral Resource estimate (Table 1) replaces the previous estimate completed during May 2020, which totaled 1,270,000 tonnes at 2.3 g/t Au for 94,000 ounces of gold (refer ASX announcement dated 4 May 2020).

The revised estimate is based on the 2020 Stage 1 drilling program, which comprised 73 drill holes for a total of 3,756 metres of drilling. Of the 73 holes, 60 were infill holes at the Steam Engine and Eastern Ridge lodes and 13 were exploratory holes aimed at extending the mineralisation envelope (delineated as at May 2020). The exploratory holes were drilled at the northern ends of the Steam Engine and Eastern Ridge lodes and at the Southern Zone Lodes.

Infill drilling of the near-surface portions of the Steam Engine Lode enabled an upgrade in the geological confidence of this portion of the lode and the reporting of a maiden Measured resource of 180,000 tonnes at 2.6 g/t Au for 15,000 ounces.

The new Mineral Resource represents a 19% increase in total contained gold and a 26% increase in resource tonnes. A comparison between the new (December 2020) and May 2020 Mineral Resource estimates is set out in Table 2.

Block models have been created to determine the Mineral Resource and applicable confidence categories. The Mineral Resource is being further evaluated for its potential for toll treatment using a pit optimisation based on aa AUD\$2,000 gold price. The pit optimisation results will be released as part of a Scoping Study.

The Company has determined that the results of the work completed to date warrant advancing the project to a Scoping Study to determine the potential viability for toll treatment of the resource.



Table 1. Steam Engine Gold Deposit Mineral Resource Estimate

Classification	Cut-off Grade (g/t)	Tonnes	Grade (g/t Au)	Gold (ounces)
Steam Engine (Main Zone)				
Measured	0.5	180,000	2.6	15,000
Indicated	0.5	330,000	2.5	27,000
Inferred	0.5	600,000	2.1	41,000
Steam Engine (Footwall Zone)				
Inferred	0.5	200,000	1.6	10,000
Eastern Ridge				
Indicated	0.5	140,000	2.1	9,000
Inferred	0.5	150,000	2.1	10,000
TOTAL MINERAL RESOURCES				
Measured		180,000	2.6	15,000
Indicated		470,000	2.4	36,000
Inferred		950,000	2.0	61,000
TOTAL MINERAL RESO	URCES	1,600,000	2.2	112,000

Table 2. Comparison between May 2020 and December 2020 Mineral Resource estimates

		May 2020			Dec 2020			Compariso	n
Classification	Tonnes	Grade (g/t Au)	Gold (ounces)	Tonnes	Grade (g/t Au)	Gold (ounces)	Tonnes	Grade (g/t Au)	Gold (ounces)
Steam Engine (M	ain Zone)								
Measured	-	-	-	180,000	2.6	15,000	+100%	+100%	+100%
Indicated	370,000	2.5	30,000	330,000	2.5	27,000	-11%	0%	-10%
Inferred	420,000	2.3	31,000	600,000	2.1	41,000	+43%	-9%	+32%
Steam Engine (Fo	otwall Zone)								
Inferred	210,000	1.6	11,000	200,000	1.6	10,000	-5%	0%	-9%
Eastern Ridge									
Indicated	-	-	-	140,000	2.1	9,000	+100%	+100%	+100%
Inferred	270,000	2.7	23,000	150,000	2.1	10,000	-44%	-22%	-57%
TOTAL MINERAL	RESOURCES								
Measured	-	-	-	180,000	2.6	15,000	+ 100%	+ 100%	+ 100%
Indicated	370,000	2.5	30,000	470,000	2.4	36,000	+ 27%	- 4%	+ 20%
Inferred	900,000	2.2	64,000	950,000	2.0	61,000	+ 6%	- 9%	- 5%
TOTAL	1,270,000	2.3	94,000	1,600,000	2.2	112,000	+ 26%	- 4%	+ 19%



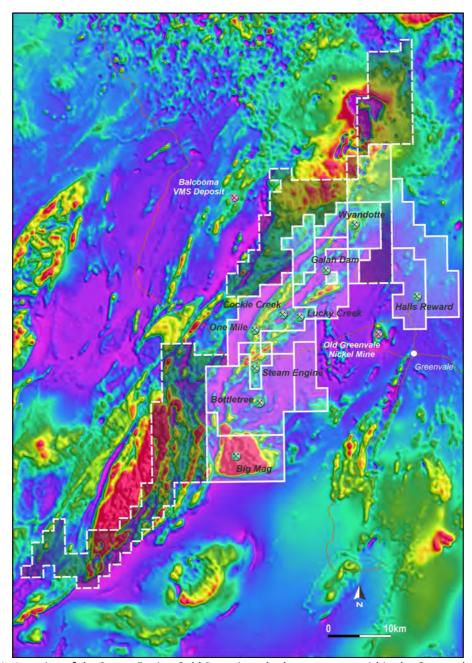


Figure 1. Location of the Steam Engine Gold Deposit and other prospects within the Greenvale Project.

Overview of the Steam Engine Deposit

The Steam Engine Gold Deposit is located within EPM26165, approximately 210km west-northwest of Townsville in Northeast Queensland, Australia (Figure 1).

Gold mineralisation is developed within several north-northeast trending, west-dipping pyritic quartz-muscovite-carbonate schist lodes within metamorphosed intermediate to basic intrusives and metasediments (Figure 2). The metamorphosed host rocks have been heavily chlorite—epidote altered in the vicinity of the mineralised shear zones.

Additionally, the mineralisation appears loosely linked to heavily sericite altered zones, that are readily mappable in some areas where surface exposure is good. Initial observations are that this connection, together with the observable sulphide content could be quite useful in assisting in the mining of the dipping lode zones



and to help reduce dilution. The gold mineralisation is represented by a mineral assemblage comprising mainly pyrite with minor arsenopryrite, pyrrhotite, and chalcopyrite (all fine grained).

The lodes are typically interpreted as being of the mesothermal lode type. Recent studies undertaken by Superior indicate that the Steam Engine mesothermal gold mineralisation is most similar to the orogenic style.

The gold-bearing lodes are located within shear zones and show strong continuity and a persistent dip to the west. The Steam Engine lode typically dips around 50° to 60° to the West. The Eastern Ridge lode typically dips approximately 45° to 55° to the West.

Several gold bearing lodes occur in the area and include the Steam Engine, Eastern Ridge and Southern Zone lodes and the large, recently delineated Dinner Creek Lode (Figure 3). The Steam Engine Lode has a surface strike length of approximately 500 metres. The Eastern Ridge Lode is located approximately 500 metres east of the Steam Engine Lode and has a surface strike length of approximately 1,400 metres. The Southern Zone Lodes are located between and to the south of the Steam Engine and Eastern Ridge lodes. Located a further 900 metres east of the Eastern Creek Lode, the Dinner Creek Lode has not been subjected to any modern or historical drilling, despite appearing at surface to be the longest and thickest lode zone.

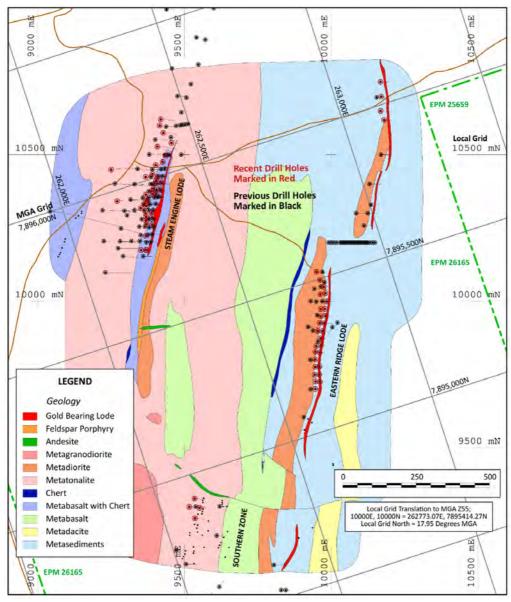


Figure 2. Steam Engine Gold Deposit – Geology Plan, showing gold lodes (in Red) and existing and planned drill holes.



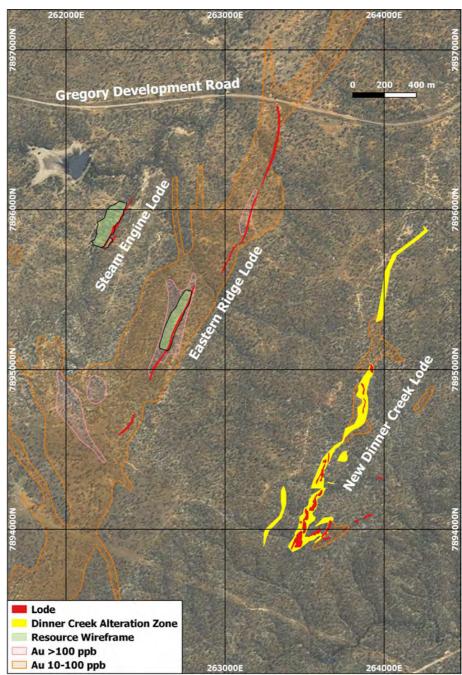


Figure 3. Steam Engine Gold Deposit lodes (in red and yellow) on satellite imagery. The May 2020 Mineral Resource wireframes (in light green) and gold in soil geochemistry is also shown.

Drilling

Total drilling on the Steam Engine Gold Project (excluding RAB holes) is 189 drill holes for a total of 11,761 metres. This includes recent as well as historical Reverse Circulation (RC) and Diamond core drill holes.

The majority of the drilling to date (156 drill holes for 10,109 metres) has been carried out on the Steam Engine and Eastern Ridge lodes (Figure 4). This includes 17 Diamond core holes and 84 RC holes for a total of 7,483 metres at the Steam Engine Lode and 3 Diamond core holes and 52 RC holes for a total of 2,626 metres at the Eastern Ridge Lode.

The Mineral Resource has only been developed on parts of the Steam Engine and Eastern Ridge lodes.



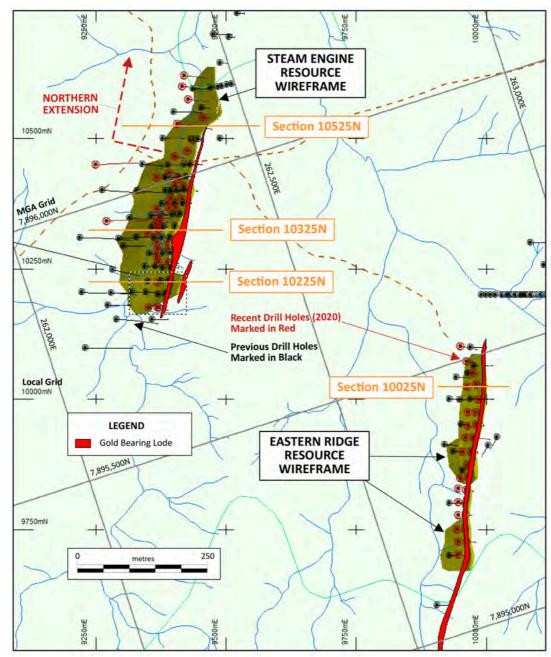


Figure 4. Plan view of the Steam Engine and Eastern Ridge lode wireframes (in green). Gold lodes (in red) and cross section locations are also indicated.

Mineral Resource Estimation

SECTIONAL INTERPRETATION

Where available, previous interpretations were used as a guide for the sectional interpretations used for the current Resource estimate, together with the relevant drill hole geology and surface geology information. The recent drilling data confirmed the previous sectional interpretations, with some adjustment being made as a result of the increased level of information. The Steam Engine Lode zone was extended further to the North due to additional drilling in this area. The greater detail at Eastern Ridge lode zone allowed a fault zone to be interpreted. The fault zone returned lower grade assays and has been excluded from the resource estimation, pending future drilling of this portion of the lode.



Sectional interpretations were made of all zones of mineralisation that displayed good continuity and sufficient grade (generally >1 g/t intersections).

Stage 1 drilling at the northern end of the Steam Engine Lode enabled sectional interpretation to be extended North to 10612.5N.

An intersectional cut-off of 0.7 g/t gold was used for the mineralised lode zones and a 1 g/t cut-off was used elsewhere. Intersections of 1 g/t gold and above were considered to have reasonable prospects of economic extraction. The other major economic factor considered was the width of the gold intersections. Zones of greater width were generally considered to hold better potential for extraction at depth. Other geological factors, including internal waste intervals and a minimum width of the mineralised zone were also used to develop potential mineable situations and practical mineable widths. Some intersections of less than 1 g/t were also included where necessary for the purposes of mineralisation continuity.

The results of the sectional modelling are shown in the resource drill sections for both Steam Engine and Eastern Ridge lode zones (Figures 5 and 6).

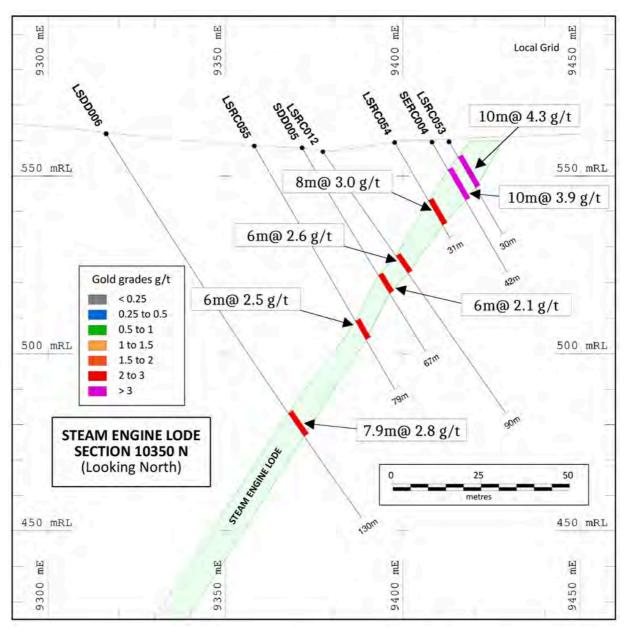


Figure 5. Resource drill section 10350N showing gold intersections on the Steam Engine Lode.



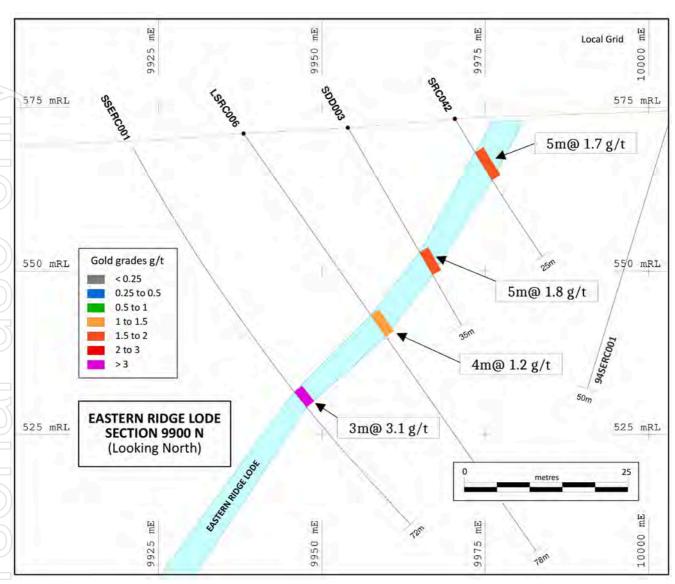


Figure 6. Resource drill section 9900N showing gold intersections on the Eastern Ridge Lode.

WIREFRAMING – STEAM ENGINE LODE

The 3D interpretation of the Steam Engine Lode is similar to the May 2020 interpretation (Figure 7). The key difference is the extension of the wireframe to the North due to additional drilling that demonstrates continuity of mineralisation in this direction.

The interpretation of the Steam Engine Lode indicates that the footwall mineralisation merges close to the main zone of mineralisation at the point where the main lode is enhanced to its greatest width. This merge point is also where the main lode zone carries the highest grade. Not all of the Steam Engine footwall mineralisation is economic and only zones of sufficient grade have been wireframed for this Resource estimation.

Wireframing of the new northern extension part of the Steam Engine Lode excludes near surface parts of the lode that are currently considered sub-economic. Additional drilling is currently underway on this zone aimed at further clarifying and extending this portion of the Mineral Resource.



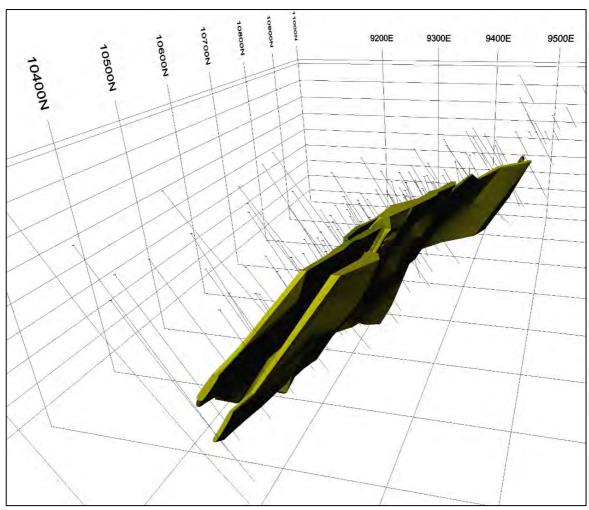


Figure 7. 3D View of the Steam Engine Wireframe looking grid North-Westerly from Above Surface Level.

WIREFRAMING – EASTERN RIDGE LODE

The Eastern Ridge resource is dominated by a single lode that is easily wireframed. However, the additional Stage 1 drilling information identified a faulted zone (located on section 9825N) that results in deteriorated grades within this zone. As a result, the fault affected areas were excluded from the revised Mineral Resource estimation, pending future drilling of this portion of the lode.

This has resulted in a northern and southern portion of mineral resource at the Eastern Ridge Lode separated by a slight gap zone (refer Figures 8, 9 and 10). Consequently, the Northern and Southern Portions of the Eastern Ridge Resource were wireframed separately.



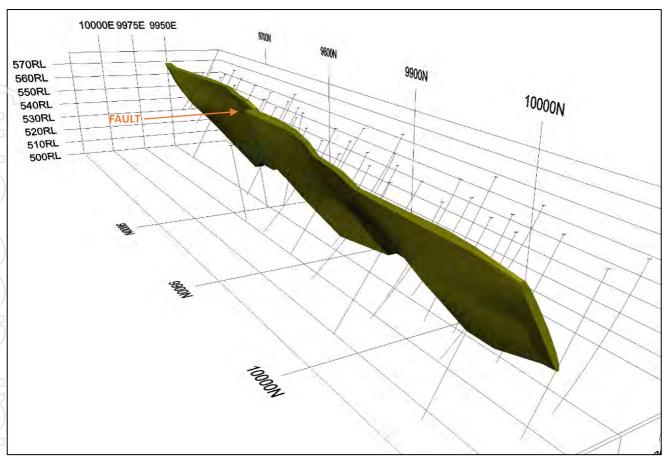


Figure 8. 3D View of the Eastern Ridge Wireframe looking grid South-Easterly from Above Surface Level

BLOCK MODELLING

Inverse distance weighted (IDW) block models were used to make the Resource estimates for the modelled gold resources. The block model consisted of 5x5x5 metre blocks. A search criteria of 90 metres was used for the Steam Engine and Eastern Ridge deposits. Assays were filtered from within the wireframed zones for the resource estimation. An inverse power of 3 was used to more closely map the grade distributions in 3D (Figure 9). This method is considered to most closely reflect the grade fluctuations in the ore shoot zones near the drill holes and will still result in adequate averaging of the areas where additional infill drilling is still desirable.

Wireframe estimates were used to cross check the block model resource figures. The comparison showed the volumes to be a near exact matches.

RESOURCE CLASSIFICATION

Drill Hole spacing criteria for the material classifications at the Steam Engine and Eastern Ridge deposits were determined as (Figure 10):

- Measured holes up to 20 metres (along strike) by 20 metres, or less;
- Indicated holes up to 40 metres (along strike) by 40 metres, or less; and
- Inferred holes up to 100 metres (along strike), or less.



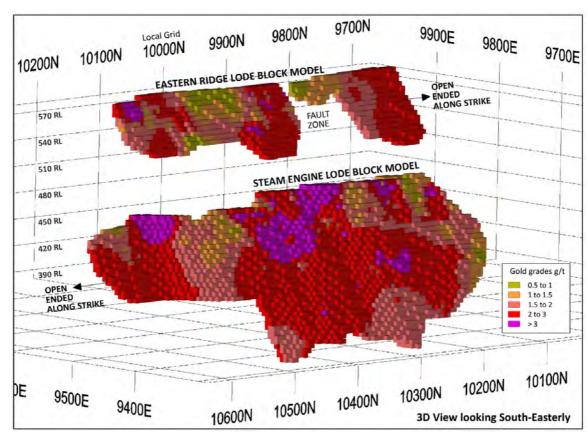


Figure 9. 3D View of the Steam Engine and Eastern Ridge Block Models looking grid south-easterly.

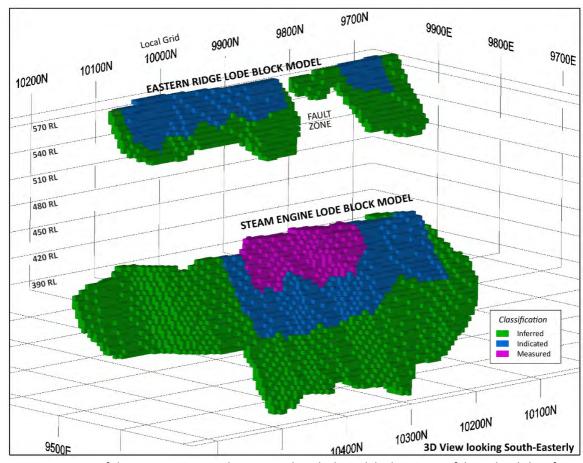


Figure 10. 3D View of the Steam Engine and Eastern Ridge Block Models showing confidence level classifications.



Miscellaneous Reporting Criteria and other Disclosures

(See also Appendix 2: JORC Code, 2012 Edition - Table 1)

DATA COMPILATION

This report is based on data compilations from the recent Superior drilling and drilling carried out in previous resource estimations conducted by competent persons employees of Superior.

Data validation for the recent drilling has been carried out by Mr Kevin Richter (Competent Person) by matching up the scanned field records with the digital information to ensure the information is correct. Data validation for the previous drilling was carried out by the inspection of the previous reports dating back to the earliest phases of drilling.

Further data validation processes were also carried out in Micromine mining software to make the data ready for use. No material inconsistencies were identified and the data has been deemed by Superior to be satisfactory for Mineral Resource estimation purposes.

DRILL HOLE LOCATIONS

Initial drill hole collar locations were established using hand held GPS with three metre or better accuracy. The locations were further defined using DGPS to give sub one metre accuracy after completion of the drilling program.

TOPOGRAPHICAL CONTROL

Topographic control was established from DGPS pickup that has been merged with RL-adjusted contours. This arrangement will be upgraded during the pre-feasibility stage when further definition of the topography is planned using a LIDAR survey. A LIDAR survey is planned to be carried out during the upcoming Pre-Feasibility Studies.

A new level for the RLs has been defined for this Resource estimation. Previously, a grid RL had been used for the drill data. The RL data has been reset to MGA RLs in preparation for the pre-feasibility and the upcoming LIDAR survey.

DOWN HOLE SURVEYS

Down-hole surveys were conducted to record any directional changes in the drill azimuth and dip in both RC and Diamond core drill holes. Initial drill hole directions were measured using a compass and clinometer. Further down hole measurements were then taken every 30 metres or so using a reflex down-hole survey instrument.

HISTORICAL DRILLING AND LOCAL GRID

Previous explorers used a local grid control for drilling and completed accurate surveying of drill hole collars on this grid with RLs being surveyed to a local height datum. Down-hole surveying of most of the diamond drill holes was completed by Noranda, but RC holes were not surveyed down-hole.

Superior completed surveying of most of the earlier explorer's drill hole collars using a DGPS system. This surveying validates the accuracy of historically reported collar locations and provides a reasonably accurate translation of the old local grid coordinates to MGA Z55 as follows:

Common Point: 10,000E; 10,000N = 262,773.07E; 7,895,414.27N

Local Grid North: 17.959 MGA.

DGPS Elevation + 26.867m = Local Grid Datum.



PRELIMINARY METALLURGICAL TESTING

Although metallurgical testing is not required for the Resource estimation program, preliminary leach test work was conducted on six sample composites taken from parts of the Steam Engine Lode and Eastern Ridge Lode. On the basis of the relatively limited test work to date, the recovery predictions for Steam Engine ore and Eastern Ridge ore respectively are 97 and 80 percent.

The metallurgical test work program is continuing in order to more comprehensively characterise the gold mineralisation at each of the deposits and identify recovery improvement pathways.

Next Steps

SCOPING STUDY

A Scoping Study was originally scheduled to be released during November 2020 and prior to the finalisation of this revised Mineral Resource estimate. Significant delays in receiving assay results during the year, have affected the relative timing of this Resource estimate and the Scoping Study. As a result, the Company will be incorporating the outcomes from this Resource estimate into the Scoping Study. The Scoping Study is now expected to be released during mid-January 2021.

The results of the Scoping Study will determine whether a feasibility level of study is warranted.

ASSAY RESULTS – STAGE 2 DRILLING

Assay results from the State 2 extensional drilling program (which is expected to be completed this week) will be reported to the market over the course of the next two months. Depending on the results, a further resource revision may be conducted shortly afterwards.

PRE-FEASIBILITY STUDY

Depending on the results of the Scoping Study, a Pre-Feasibility Study will commence immediately.

DRILLING AT DINNER CREEK LODE

Planning for a maiden drilling program at the Dinner Creek Lode is underway. The program is planned to commence during March or April 2021.

OTHER WORK

In addition, the following work programs are planned:

- Further extensional drilling;
- Detailed metallurgical studies;
- Toll treatment negotiations; and
- Preliminary environmental studies.

<ENDS>

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About Superior Resources

Superior Resources Limited (ASX:SPQ) is an Australian public company exploring for large lead-zinc-silver, copper, gold and nickel-copper-cobalt deposits in northern Queensland which have the potential to return maximum value growth for shareholders. The Company has a dominant exploration position within the Carpentaria Zinc Province, one of the world's richest mineral producing regions and is focused on multiple Tier-1 equivalent exploration targets.

Reporting of Mineral Resources: Information contained in this report that relates to Mineral Resources is based on information compiled by Mr Kevin Richter, an employee of Superior Resources Limited, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Richter has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Richter consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

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APPENDIX 1

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
Criteria 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. 	 Current Sampling RC drill samples are collected as drilled via a riffle splitter attached to the drill rig cyclone and collected as 1m riffle split samples. Approximately 1-3kg of sample was collected over each 1m interval used for assaying. Diamond core drill samples are collected by quartering of the NQ core from Diamond drilling. Approximately 1 to 1.5 kg of sample was collected over each one metre interval used for assaying. The drill bit sizes used in the drilling were consistent in size and are considered appropriate to indicate the degree and extent of mineralisation. Sample intervals that lack metalliferous anomalism are not reported and are not considered to be material. 1m representative samples of intervals with visible mineralisation and those in the areas of interest based on previous drilling were assayed for gold at SGS laboratories in Townsville. 1m representative samples of intervals with visible mineralisation were assayed for gold at ALS laboratories in Townsville. 1m samples at 0.5 g/t Au and above were also submitted for multi-element assaying using a four acid digest.
		 Assaying for gold was via fire assay of a 50 gram charge. Sample preparation at SGS laboratories in Townsville for all samples is considered to be of industry standard procedure.



Criteria	JORC Code explanation	Commentary
		 Historical Sampling Information relating to historical results relies on data contained in reports submitted to the Queensland Department of Natural Resources and Mines as part of the Company Report System attaching to the grant of Exploration Permits.
		 The sampling techniques, where reported, used standard industry approaches. These include: 1. splitting off a sample of material delivered to the top of the hole during RC drilling to produce a sample for assay accompanied by geological logging of the sample. 2. Halving of drill core from diamond drilling to produce an assay sample accompanied by geological logging of the core.
		 Assaying of samples was completed by commercial laboratory methods that were appropriate at the time the samples were collected. Sample intervals of 4m were commonly used for initial determination of the presence of gold by a geochemical method followed by more detailed sampling of mineralised intervals at usually 1m intervals using a more precise method.
		 Whilst it is not possible to determine the reliability of historical assay results, no issues arose during compilation and interpretation of the results that would suggest that the assay results were not reasonable. Additional to this, the recent sampling and assaying completed in 2020 by Superior shows that the various previous drilling phases have given consistently similar results when compared to those of the recent (2020) sampling.
• 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.).	 Current Drilling Drilling from surface was performed using standard RC and diamond core drilling techniques as applicable to the hole drilled. 	
		 RC Drilling was conducted by AED (Associated Exploration Drillers) using a UDR 650 drilling rig and 5.5 inch drill bit. Additional to the on-board air compressor of the drilling rig, additional compressed air was available as necessary via a separate booster truck. Sampling was by the use of a face-sampling hammer bit.
		 Diamond drilling was conducted by AED (Associated Exploration Drillers) using a UDR 650 drilling rig and NQ drill rods and wireline to retrieve the core. Drill core was oriented to allow structural measurements. The deeper drill holes were first pre- collared using the RC Drilling method outlined above.
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Criteria	JORC Code explanation	Commentary
		 All holes were surveyed using a Reflex Gyro north-seeking gyroscopic instrument to obtain accurate down-hole directional data.
		 Historical Drilling Reverse Circulation (RC) and Diamond Drilling (DD) are the only drill types relied on in this report. Historical Percussion and RAB holes have only been used in terms of constraining the extent of the Mineral Resource, when applicable.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure 	 Current Drilling Sample recovery was performed and monitored by Terra Search contractor and Superior's representatives.
	 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. 	 The volume of sample collected for assay is considered to be representative of each 1m interval.
		 RC drill rod string delivered the sample to the rig-mounted cyclone which is sealed at the completion of each 1m interval. The riffle splitter is cleaned with compressed air at the end of each 1m interval and at the completion of each drill hole.
		 For Diamond core drilling a wireline was used to retrieve core samples that are then placed in core trays.
		Historical DrillingRecoveries for RC drill holes were not recorded.
		 Recoveries for diamond drill core samples were recorded for most holes drilled at Steam Engine. These recoveries were usually of the order of 100% indicating that recoveries should not be an issue if the results are used for estimating resources.
		No relationship is evident between sample recovery and grade.



Criteria	JORC Code explanation	Commentary
Logging	 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 	 Current Drilling Geological logging was conducted during the drilling of each hole by a Terra Search geologist having sufficient qualification and experience for the mineralisation style expected and observed at each hole. All holes were logged in their entirety at 1m intervals for the Reverse Circulation (RC) drill holes. A spear was used to produce representative samples for the logging of RC holes.
	logged.	• Intact entire Diamond drill hole core was use for the logging of Diamond core, the core was used to record RQD, as well as structural information and geological logging.
		 All logging data is digitally compiled and validated before entry into the Superior database.
		The level of logging detail is considered appropriate for resource drilling.
		The RC Chip trays and Diamond Core trays were all photographed.
		 Geological logging of most of the drill holes is available in the Company Report System. Logs for holes drilled at fill-in 25m sections have not been located at this stage. The available logging are of a good standard. No geotechnical logs have been reported and it is assumed that these were not done. Diamond drill hole logs usually include structural data that has been compiled in digital form.
		 The logging is generally of a qualitative nature. No core or chip photography is available in the reports.
		For the logs available logging of all material has been completed.
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 	 Current Sampling The sample collection methodology is considered appropriate for RC and Diamond Core drilling and was conducted in accordance with best industry practice. RC drill hole samples are split with a riffle splitter at 1m intervals as drilled. Split 1 metre samples are regarded as reliable and representative. Approximately 1-3kg of sample was collected over each 1m interval. Samples were collected as dry samples.



Criteria	JORC Code explanation	Commentary
	stages to maximise representivity of samples.	Duplicate samples are taken and assayed in each batch processed for assaying.
	 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. 	 Diamond Core drill hole samples were collected from quartered core over 1 metre intervals. Approximately 1 to 1.5 kg of sample was collected over each one metre interval used for assaying. Quartered NQ Core samples are regarded as reliable and representative. Samples were collected as dry samples.
		 The sample sizes are considered appropriate to the style of mineralisation being assessed.
		 Historical Sampling The diamond drill core has been halved, as is standard practice for most explorers.
		 Details of the approach taken for sampling of RC drill holes are not available but it is expected to be of industry standard for the time.
Quality of	The nature, quality and appropriateness of the assaying and	Current Assaying
assay data and laboratory tests	laboratory procedures used and whether the technique is considered partial or total. • For geophysical tools, spectrometers, handheld XRF	 All samples were submitted to SGS laboratories in Townsville for gold. Gold assays at or above 0.5 g/t were additionally assayed for a full suite of 38 additional elements using a four acid digest.
	 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 (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	 Samples were crushed, pulverised to ensure a minimum of 85% pulp material passing through 75 microns, then analysed for gold by fire assay method GO_FA50V10 using a 50-gram sample.
		• Multi-element analyses were conducted on assays of 0.5 g/t gold or above using a four acid digestion followed by an ICP-AES finish using method GO_ICP41Q100 for the following 38 elements: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sn, Sr, Te, Th, Ti, U, V, W, Y, Zn, Zr.
		 Certified gold, multi-element standards and blanks were included in the samples submitted to the laboratory for QAQC. Laboratory assay results for these quality control samples are within 5% of accepted values.
		 Additionally, ALS used a series of its own standards, blanks, and duplicates for the QC of the elements assayed.
		 Historical Assaying Sampling and assaying techniques used during various phases of the previous drilling



Criteria	JORC Code explanation	Commentary
		were done by commercial laboratories using industry standard procedures used at the time of drilling.
		 Assay data reviewed with the historical reports include some duplicate assaying. It is unknown in detail what other quality control procedures were adopted.
		 The recent sampling and assaying completed in 2020 by Superior shows that the various historical drilling phases show consistent results when compared to those from the recent drilling.
Verification of	The verification of significant intersections by either	Current Sampling
sampling and assaying	 independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data 	 The reported significant intersections have been verified by Terra Search and Superior geologists against the representative drill chips and diamond drill core collected and the drill logs.
	 verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	No Superior holes were twinned.
	, , ,	 Logs were recorded by Terra Search field geologists on hard copy sampling sheets which were entered into spreadsheets for merging into a central database.
		 Laboratory assay files were merged directly into the database.
		The data is routinely validated when loading into the database.
		No adjustments to assay data were undertaken.
		Historical Sampling
		 Close spaced recent drilling by Superior Resources (2020) to Historical drill holes confirms the order of the drill gold intersections obtained by the Historical Drilling.
		 To date, no dedicated twinned holes have been drilled by Superior on the Historic drill holes, however very close spaced recent drill holes to the historical drilling has resulted in very similar results both in terms of widths and grades.
		 Most of the historical drill hole data was captured and stored on paper. The compilation of that data in digital form has been completed by the competent person.
		 No adjustments have been made to historical sample assay data as there was no apparent reason for such adjustment.



	Criteria	JORC Code explanation	Commentary
)	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. 	 Current Drilling Drill hole collars have been recorded in the field using hand held GPS with three metre or better accuracy. The locations have also been further defined using DGPS to give sub one metre accuracy.
		Quality and adequacy of topographic control.	 The drill hole spacing and drilling technique are appropriate to establish the degree of geological and grade continuity for the Mineral Resources estimation procedures that have been applied. The gold mineralised system remains open and further infill, depth and strike extension drilling is required to confirm the full extent of the ore bodies.
			The area is located within MGA Zone 55.
			 A new level for the RL's has been defined as the MGA RL (previously the grid RL was used) in preparation for the pre-feasibility.
			 Topographic control is currently from DGPS pickup that has been merged with RL adjusted contours. This arrangement will be upgraded prior to pre-feasibility when further definition of the topography is planned to use a LIDAR survey. This will be carried out for the pre-feasibility study.
			Historical Drilling
			 Noranda Australia (and subsidiaries) controlled exploration of the Steam Engine area using a local grid. As the property advanced a surveyor was used to provide a more accurate local grid control with a local height datum being implemented. Their data has been originally compiled using the local grid coordinates.
			 Drill holes completed by Beacon Minerals Limited were reported using handheld GPS collar coordinates with a likely accuracy of about ± 5m. An accurate translation from GPS coordinates to local grid coordinates has been used to convert the Beacon drill hole data to local coordinates.
			 Many of the historical drill hole collars are still evident at the prospect. Superior completed surveying of most of the previous drill hole collars using a DGPS system. The DGPS surveying validates the accuracy of Noranda's reported collar locations, and provided an additional level of location confidence to the historical drill hole data.



Criteria	JORC Code explanation	Commentary
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. 	 Drill hole spacing is variable at the Steam Engine area, due to different stages of the resource evaluation at the project. Most recent Mineral Resource infill lines at the Steam Engine lode included 12.5 metre and 25 metre spaced infill lines. Most recent Mineral Resource Infill lines at Eastern Ridge lode included 25 metre spaced infill lines. The drill hole spacing are sufficient in the central portions of the Steam Engine Lode and the Eastern Ridge Lode to allow estimation of Mineral Resources when all the necessary information is compiled. Most intersections reported in this report are weighted composites of smaller sample intervals as is standard practice.
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. 	 The orientation of the drill holes is generally ideal for reporting of the intersection results. No orientation sample bias has been identified at this stage.
Sample security	The measures taken to ensure sample security.	 Sub-samples selected for assaying were collected in heavy-duty polyweave bags which were immediately sealed. These bags were delivered directly to the SGS assay laboratory in Townsville by Terra Search and Superior Resources employees. Sample security measures within SGS laboratories are considered adequate.
Audits or reviews	 The results of any audits or reviews of sampling techniques and data. 	 No audits or reviews of the sampling techniques and data have been undertaken to date.

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	 Type, reference name/number, location and ownership including agreements or material issues with third parties such 	 The areas reported lie within Exploration Permit for Minerals 26165 and held 100% by Superior Resources.
land tenure status	as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	 Superior Resources holds much of the surrounding area under granted exploration permits.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate	 Superior Resources has agreements or other appropriate arrangements in place with landholders and native title parties with respect to work in the area.
	in the area.	 No regulatory impediments affect the relevant tenements or the ability of Superior Resources to operate on the tenements.
Exploration done by other	 Acknowledgment and appraisal of exploration by other parties. 	 All historical drilling reported in this report has been completed and reported in accordance with the current regulatory regime.
parties		 Compilation in digital form and interpretation of the results of that work in digital form has been completed by the Competent Person.
Geology	Deposit type, geological setting and style of mineralisation.	The Steam Engine and Eastern Ridge gold deposits are hosted within shear zones.
		 The gold mineralisation occurs within a number of north-northeast trending, west-dipping pyritic quartz-muscovite-carbonate schist lodes within metamorphosed intermediate to basic intrusives and metasediments. Significant chlorite—epidote and sericite type alteration zones exist in the shear zones, with the mineralisation appearing to be mostly linked with heavily sericite altered sections of the host rock.
		• The gold mineralisation phase itself consists of a mainly pyrite sulphide assemblage +/-minor arsenopryrite, pyrrhotite, and chalcopyrite (all fine grained).
		 Several gold bearing lodes occur in the area, of which the Steam Engine Lode zone is the most notable. The Eastern Ridge Lode zone is located some 500m east of the Steam Engine Lode zone. The Southern Lode zone is located approximately 600m South West of the current Eastern Ridge mineral resource area and lies geologically in- between the Steam Engine and Eastern Ridge lodes.
		 The lodes are typically interpreted as being of the mesothermal lode type. Recent studies undertaken by Superior Resource suggest the Steam Engine mesothermal gold mineralisation is most similar to orogenic style mineralisation.
		The important features of the Steam Engine and Eastern Ridge lodes are their



Criteria	JORC Code explanation	Commentary
		continuity and a persistent dip to the west.
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: easting and northing of the drill hole collar elevation or RL (Reduced Level) 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. 	Drill Holes collar tables with significant intersections are included in previous ASX announcements for the drill holes including the announcements dated 5 November 2020, 15 October 2020, 30 September 2020, 14 September 2020 and 14 August 2017.
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 reported as a length weighted average of all the assays of the hole intersections. No top cutting has been applied as there are a limited number of high-grade gold assays that influence the calculated intersection grades. This is a feature of the Steam Engine Gold Deposit. No metal equivalent values are 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'). 	 For the Steam Engine lode zone an interpreted westerly dip of approximately 50 to 60° and drill holes which generally dip to the east at around 60° (or less) result in near true widths at or above 0.87 times the intersection lengths as reported. For the Eastern Ridge lode zone an interpreted westerly dip of approximately 45 to 55° and drill holes that generally dip to the east at around 60° (or less) result in true widths at or above 0.9 times the intersection lengths reported.
Diagrams	 Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery 	 Included. Further relevant maps and sections are included in previous ASX announcements for



Criteria	JORC Code explanation	Commentary
	being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	the drill holes including the announcements dated 5 November 2020, 15 October 2020, 30 September 2020, 14 September 2020 and 14 August 2017.
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. 	 Drill Holes collar tables with significant intersections are included in previous ASX announcements for the drill holes including the announcements dated; 5 November 2020, 15 October 2020, 30 September 2020, 14 September 2020 and 14 August 2017.
Other substantive exploration data	ubstantivereported including (but not limited to): geologicalxplorationobservations; geophysical survey results; geochemical survey	 Preliminary metallurgical leach test work was undertaken in October and November 2020 by ALS Laboratories to confirm the amenability of the ore to conventional CIP / CIL leaching. Six sample composites were generated from material which was of ore grade and considered representative of the ore to be mined, with two samples of each of the three main ore zones.
	geotechnical and rock characteristics; potential deleterious or contaminating substances.	 Grind size for the test work was P80 (80% passing size of 75 microns).
		 The leach test conditions comprised sodium cyanide dosage of 1.5 kg/t, density of 40% solids, pH of 10 to 10.5, with dissolved oxygen at 15 to 20 ppm.
		 Leach tests were run for 48 hours with a sample taken after 24 hours to assist in understanding the leach kinetics.
		• The results for the Eastern Ridge samples (5223045 and 5223046) were excellent with 97 and 98 percent of the gold being extracted respectively, and with virtually all of this extracted after 24 hours.
		 The results for the Steam Engine lode were lower with the average grade samples (5223044, 5223042 and 5223043) seeing total gold extraction of 84, 80 and 73 percent respectively.
		 At this stage, no test work has been done to investigate options to improve the gold recovery in the Steam Engine Lode samples.
Further work	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out	 An additional exploration drilling program has just been completed with results expected soon (refer to ASX report 23 September 2020).
	 drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future 	 Subsequent to this Mineral Resource estimate additional work programs will now include: Pit optimisation studies



Criteria	JORC Code explanation	Commentary
	drilling areas, provided this information is not commercially sensitive.	 Metallurgical studies Geotechnical studies Toll treatment negotiations Preliminary mining and rehabilitation planning Preliminary environmental studies

Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Database integrity	 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 	 This report is based on data compilations from recent Superior drilling (2020) and drilling carried out as reported in previous resource estimations conducted by competent persons working for Superior.
	purposes.Data validation procedures used.	 Data validation for the recent drilling has been carried out by the Competent Person by matching up the original field records with the digital information to ensure the information is correct. Data validation for the previous drilling was carried out by the inspection of the previous reports dating back to the earliest phases of drilling.
		 Data validation processes were also carried out using mining software to make the data ready for use.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 Site visits have been undertaken by a competent person to confirm the drill hole locations and to undertake geological and mineralisation interpretations, as well as to plan for the additional drilling carried out.
 Geological interpretation interpretation of the mineral deposit. Nature of the data used and of any assumptions made. 	 A higher level of confidence exists for the Steam Engine main lode zone, than for the Steam Engine footwall lode zone (due to patchy grades) and for the Eastern Ridge lode zone (due to less drilling). 	
	 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 geological Interpretations are consistent with the previous interpretation by Noranda.
		 The data includes drill hole data and surface exposures, but there are no current underground ore exposures.



Criteria	JORC Code explanation	Commentary
		No alternative interpretations are evident or have been considered.
		 Lode geology is fundamental to the interpretations.
		 The lack of underground exposures and the soil cover in the area may obscure crosscutting faults, but significant displacement on these mineralisation zones is not apparent in the sectional data.
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. 	These are apparent on the various sections included with this report.
Estimation and modelling	 The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme 	 Further detail on the resource estimation process is included in the main body of this announcement.
techniques	 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 and/or mine production records and whether the Mineral Resource 	 Inverse distance block modelling was used for the resource estimations. When properly constrained by wireframing, block modelling is a good method for the estimation of this kind of resource. An inverse power of 3 was used to more closely map the grade distributions present in vein zones. An appropriate search radius was used for individual lode zones, based on the average drilling density.
	 estimate 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 mine drainage characterisation). In the case of block model interpolation, the block size in 	 Check estimates were carried out using global estimates from the wireframes. These gave similar tonnages to the global block model estimates. While the wireframe estimate uses weighting of the intersectional grades it does not use any weighting in relation to distance from those intersections. However, as a comparative method it shows that the tonnages are correct and even gave relatively close gold grade values to the block model.
	 relation to the average sample spacing and the search employed. Any assumptions behind modelling of selective mining units. Any assumptions about correlation between variables. 	 Checks against previous resource estimations also showed similar tonnages and grades over the Steam Engine portion of the resource that has been previously estimated by Superior.
	 Description of how the geological interpretation was used to 	The estimate is for gold only. No by-products are considered likely.
	 control the resource estimates. Discussion of basis for using or not using grade cutting or capping. 	• Incomplete assay data from early drilling does not allow estimation of other elements. Some arsenic occurs within the gold mineralisation where it has been assayed.
	 The process of validation, the checking process used, the 	There are no extreme grade variations evident in the data.
	comparison of model data to drill hole data, and use of	Interpolation for inferred resources has allowed for up to approximately 100 metres



Criteria	JORC Code explanation	Commentary
	reconciliation data if available.	along strike between drill holes in some cases, if it conforms to the current geological interpretation.
		 Extrapolation for inferred resources (outside of the drilling extents) has allowed for up to approximately 60 metres of extension, predominantly on dip, where holes either side along strike have indicated the continuation of the mineralisation. However, extension down dip was moderated by the width of the mineralisation, and if that mineralisation was considered wide enough to be feasible for future extraction.
		No intersection data below 2m true thickness was used in the estimation.
		No correlation between variables.
		 The lode geology was a fundamental element of the modelling and controlled the modelling process.
		 No grade cutting was considered necessary.
		 Validation was carried out by checking each stage of the modelling process against the resource intersections and assay values. As mentioned above global wireframe estimates also gave close values to the block modelling process.
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	 In the absence of any specific gravity data, the tonnages were estimated on an assumed SG of 2.7. This appeared to be a reasonable value given the sulphide content of the lodes.
Cut-off parameters	 The basis of the adopted cut-off grade(s) or quality parameters applied. 	 An arbitrary intersection cut-off grade of 1g/t was used based on a likely cut-off grade required for a toll treatment gold operation in the area.
Mining factors or	 Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, 	 Open cut mining appears to be the most likely extraction method. The depth to which that might be possible is uncertain until further studies have been done.
assumptions	external) mining dilution. It is always necessary as part of the JORC Code explanation Commentary 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.	 Internal dilution zones within the mineralised downhole intervals were included in the estimates.
		 A minimum width of the mineralised zone (including waste as necessary) was used to develop what are hoped to be mine practical widths down to a minimum of 3m in some cases (at the Eastern Ridge lode zone and at the extremities of the Steam Engine Lode).



Criteria	JORC Code explanation	Commentary
		 Further mining dilution effects will need to be considered during the reserve estimation process.
Metallurgical factors or assumptions	ors or metallurgical amenability. It is always necessary as part of the	 Preliminary metallurgical leach test work was undertaken in October and November 2020 by ALS Laboratories to confirm the amenability of the ore to conventional CIP / CIL leaching. Six sample composites were generated from material which was of ore grade and considered representative of the ore to be mined, with two samples of each of the three main ore zones.
	treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is	• Grind size for the test work was P80 (80% passing size of 75 microns).
	the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	 The leach test conditions comprised sodium cyanide dosage of 1.5 kg/t, density of 409 solids, pH of 10 to 10.5, with dissolved oxygen at 15 to 20 ppm.
		 Leach tests were run for 48 hours with a sample taken after 24 hours to assist in understanding the leach kinetics.
		 The results for the Eastern Ridge samples (5223045 and 5223046) were excellent with 97 and 98 percent of the gold being extracted respectively, and with virtually all of th extracted after 24 hours.
		 The results for the Steam Engine lode were lower with the average grade samples (5223044, 5223042 and 5223043) seeing total gold extraction of 84, 80 and 73 percer respectively.
		• At this stage, no test work has been done to investigate options to improve the gold recovery in the Steam Engine Lode samples.
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 	These factors have yet to be studied and some preliminary assumptions for this are expected to be adopted in an upcoming scoping study.



	Criteria	JORC Code explanation	Commentary
		an explanation of the environmental assumptions made.	
)			
	Bulk density	Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or	 At this stage the density for the resource has been assumed at an SG of 2.7, which is considered to be a close figure for this type of rock and mineralisation in situ.
		dry, the frequency of the measurements, the nature, size and representativeness of the samples.	Tests will need to be carried out in the next phase of drilling to determine more
		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.	accurate estimates for the average density.
		Discuss assumptions for bulk density estimates used in the	
	Classification	 evaluation process of the different materials. The basis for the classification of the Mineral Resources into 	Confidence levels for classification were based on similar classifications that have been
		 varying confidence categories. Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, 	made on similar deposits and by the degree of continuity of the lode zone, the density of the existing drilling, and the apparent reliability of the historical data (having been confirmed by the recent 2020 drilling).
		 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 	 The additional infill drilling (in 2020) has led to an improved level of classification, in the many of the areas previously estimated. Further additional exploration drilling has also led to new resource at the northern end of the Steam Engine Lode in the Mineral Resource estimate.
		Person's view of the deposit.	 The result appropriately reflects the competent person's current view of the deposit.
	Audits or	The results of any audits or reviews of Mineral Resource	 No audits have been undertaken at this stage.
	reviews	estimates.	The duality have been different at this stage.
	Discussion of relative accuracy/	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	 The factors that could affect the relative accuracy or confidence of the estimates include all drilling data quality issues, data density, modelled grade continuity and the used resource model assumptions. All of these are adequately discussed in the
	confidence	Person. For example, the application of statistical or	information above.



Criteria	JORC Code explanation	Commentary
	 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. 	 This approach provides an estimate within any area of the lode that is locally based. No comparisons with production data are possible.