ASX Announcement



17 February 2020

ASX: KIN

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CGP Mineral Resource Estimate Upgrade to 945koz

Highlights:

- New Mineral Resource Estimates completed for a Total Mineral Resource of 21Mt at
 1.40g/t for 945koz gold at the Cardinia Gold Project (CGP)
- Net increase of 2.8Mt at 1.16g/t Au for 103koz from the July 2019 estimate
- New Mineral Resource estimates completed for:
 - o Cardinia area Fiona, Rangoon and Hobby deposits
 - o Mertondale area Tonto, Eclipse, Quicksilver and Mertondale 5 deposits
 - o Raeside area Michelangelo, Leonardo, Forgotten Four and Krang deposits
- All Mineral Resources estimated within a A\$2,000/oz optimisation shell incorporating cost parameters derived from the 2019 CGP Pre-Feasibility Study (PFS)
- Material changes relate to:
 - Improved geological interpretation and modelling at Fiona and Rangoon
 - Improved modelling and estimation techniques at the Raeside Area deposits
 - Inclusion for the first time an estimate of the Hobby deposit
- Key focus remains on advancing exploration at the CGP to enhance the PFS outcomes

Kin Mining NL (ASX: KIN or Company) is pleased to announce an update to the Mineral Resource Estimate for the Cardinia Gold Project (CGP) near Leonora, Western Australia. The upgrade includes new estimates for Mineral Resources completed by previous asset owners and now brings all of Kin's mineral inventory to the same high standard for modelled estimates. Refer ASX announcement 19 July 2019.

The February 2020 Mineral Resource estimate have been reported for the Fiona, Rangoon, Hobby, Mertondale 5, Eclipse, Quicksilver, Leonardo, Michelangelo, Forgotten Four and Krang deposits. All Mineral Resource estimates are reported within optimised shells using the same stringent criteria and a conservative gold price assumption of A\$2,000/oz.

Commenting on this Mineral Resource estimate update, Managing Director Andrew Munckton said:

"The work completed by the geological team has been diligent, thorough and comprehensive in completing this upgrade of the Mineral Resource estimate for the Cardinia Gold Project to 945koz.

"All deposits have now been estimated to a consistent standard within a A\$2,000/oz optimisation shell using robust cost estimates for each deposit established to PFS level in August 2019. In several cases new geological interpretations and improved modelling and estimation techniques have been



adopted resulting in consistency of the quality of Mineral Resource estimate between deposits and across Project Areas."

Cardinia Gold Project: Mineral Resources: February 2020								ebruary 2	2020			20			
	Resource		Mea	sured Reso	urces	Indic	ated Resou	ırces	Infe	rred Resou	rces	To	tal Resourc	es	
Project Area	Gold Price (AUD)	ld Price Lower Cut	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Date Announced									
Mertondale															
Mertons Reward	\$2,000	0.5				0.8	2.30	60	0.4	1.01	15	1.2	1.86	74	17-Apr-19
Mertondale 3-4	\$2,000	0.5				1.2	1.99	75	0.4	1.36	20	1.6	1.82	95	17-Apr-19
Tonto	\$2,000	0.5				1.6	1.19	63	0.8	1.30	32	2.4	1.23	95	17-Feb-20
Mertondale 5	\$2,000	0.5				0.4	1.84	24	0.4	1.36	18	0.8	1.60	42	17-Feb-20
Eclipse	\$2,000	0.5							0.7	1.00	22	0.7	1.00	22	17-Feb-20
Quicksilver	\$2,000	0.5							1.1	1.11	39	1.1	1.11	39	17-Feb-20
Subtotal Mertondal						4.0	1.72	222	3.8	1.17	145	7.9	1.45	367	
_															
Cardinia															-
Bruno	\$2,000	0.5				0.9	1.02	28	1.9	1.28	78	2.8	1.20	106	09-Jul-19
Lewis	\$2,000	0.5	0.4	1.04	12	3.6	0.93	108	1.0	1.06	33	4.9	0.97	153	09-Jul-19
Kyte	\$2,000	0.5				0.3	1.57	16	0.0	1.30	2	0.4	1.54	18	17-Apr-19
Helens	\$2,000	0.5				0.7	2.18	47	0.2	1.83	14	0.9	2.09	61	17-Apr-19
Fiona	\$2,000	0.5				0.5	1.41	24	0.2	1.29	7	0.7	1.38	31	17-Feb-20
Rangoon	\$2,000	0.5				0.5	1.26	20	0.3	1.07	11	0.8	1.19	31	17-Feb-20
Hobby	\$2,000	0.5							0.1	2.10	8	0.1	2.10	8	17-Feb-20
Subtotal Cardinia			0.4	1.04	12	6.5	1.17	244	3.8	1.27	153	10.6	1.20	409	
Raeside															-
Michaelangelo	\$2,000	0.5				1.1	2.03	72	0.4	2.15	26	1.5	2.06	98	17-Feb-20
Leonardo	\$2,000	0.5				0.4	2.38	30	0.1	1.92	9	0.5	2.26	39	17-Feb-20
Forgotten Four	\$2,000	0.5				0.1	2.11	7	0.1	1.97	6	0.2	2.04	14	17-Feb-20
Krang	\$2,000	0.5				0.3	1.85	16	0.0	1.71	2	0.3	1.84	17	17-Feb-20
Subtotal Raeside						1.9	2.08	125	0.7	2.05	43	2.5	2.07	168	
TOTAL			0.4	1.04	12	12.4	1.49	591	8.3	1.28	341	21.0	1.40	945	

Table 1. Mineral Resource Estimate Table February 2020

Mineral Resources estimated by Jamie Logan of Kin Mining NL, and reported in accordance with JORC 2012 using a 0.5g/t Au cut-off within A\$2,000 optimisation shells

Cardinia Area

Fiona, Rangoon and Hobby

Geology

Fiona, Rangoon and Hobby all lie on the contact between mafic, felsic volcanics and volcaniclastic sediments in the eastern half of the Cardinia Area. These deposits are closely associated with the Helens Fault structure. Gold mineralisation within Fiona and Rangoon is partially stratigraphically controlled with some cross-cutting, slightly discordant fault-controlled mineralisation. The Hobby deposit appears to be a stratigraphically controlled structure, with a cross cutting, 040 trending fault, offsetting the southern extent of the orebody.

The Fiona and Rangoon deposits have been remodelled and re-estimated to the same standards as those adopted for the Bruno, Lewis, Kyte and Helens deposits, estimated in July 2019.

As demonstrated in other estimates of Cardinia Area deposits, the remodelling of Fiona and Rangoon has led to an increase in tonnage and a decrease in average grade (previously thin discreet volumes re-estimated to broader volumes) for an overall increase in ounces above cut-off.

Mineral Resources are reported as blocks above 0.5g/t gold within the respective A\$2,000/oz optimisation shape (refer Figure 1).



Mineral Resource estimates for Cardinia Area total 10.6Mt @ 1.20g/t Au for 409,000oz Au (refer Table 2 for details).

			C	ardinia Gol	d Project:	Mineral R	esources:	February 2	2020						
Project Area	Resource		Meas	sured Reso	urces	Indic	ated Resou	ırces	Infe	rred Resou	rces	То	tal Resourc	es	
	Gold Price (AUD)	Lower Cut off (g/t Au)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Date Announced									
Cardinia															
Bruno	\$2,000	0.5				0.9	1.02	28	1.9	1.28	78	2.8	1.20	106	09-Jul-19
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Helens	\$2,000	0.5				0.7	2.18	47	0.2	1.83	14	0.9	2.09	61	17-Apr-19
Fiona	\$2,000	0.5				0.5	1.41	24	0.2	1.29	7	0.7	1.38	31	17-Feb-20
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Hobby	\$2,000	0.5							0.1	2.10	8	0.1	2.10	8	17-Feb-20
Subtotal Cardinia			0.4	1.04	12	6.5	1.17	244	3.8	1.27	153	10.6	1.20	409	

Table 2. Mineral Resource Estimates for the Cardinia Area: February 2020

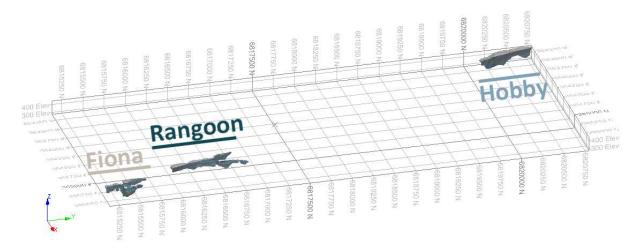


Figure 1. Oblique View, facing North West, showing Fiona, Rangoon and Hobby optimised shells and mineralised lodes

Hobby

Lying on the same contact as Rangoon and Fiona, Hobby consist of a series of contact style structures, similarly to other Cardinia Area deposits. New, detailed understanding of regional lithologies has given the geological team confidence in applying parameters at Hobby derived from information collected at Helens, Fiona and Rangoon. Summary of the features of the Hobby estimate include:

- Mineral Resource Category: Inferred.
- A small proportion of the mineralised material within the optimisation shape is reported as Mineral Resource.
- Resource definition drilling required to upgrade the remaining material.
- In-situ density measurements required to upgrade the remaining material.
- Open in all directions.

Fiona and Rangoon

The Fiona and Rangoon deposits have been remodelled and re-estimated to the same standards as those adopted for the Bruno, Lewis, Kyte and Helens deposit estimated in July 2019.



As demonstrated in other estimates of Cardinia Area deposits, the remodelling of Fiona and Rangoon has led to an increase in tonnage and a decrease in average grade (previously thin discreet volumes re-estimated to broader volumes) for an overall increase in ounces above cut-off.

Changes to the estimate include:

- Aircore data omitted for estimate.
- Modelling cut-off increase from 0.3g/t to 0.5g/t Au.
- Introduction of west dipping structure/lodes at depth at Fiona.
- Reduced top-cuts (cap) from 70g/t (Fiona) and 30g/t (Rangoon) to lode/group specific cap ranging from 2g/t to 15g/t.
- Increase in parent cell size to reflect drill spacing (from 1.25mN x 0.5mE x 1.25mRL to 5mN x 5mE x 5mRL)
- Change of estimation technique from Inverse Distance squared to Ordinary Kriging.

Mertondale Area

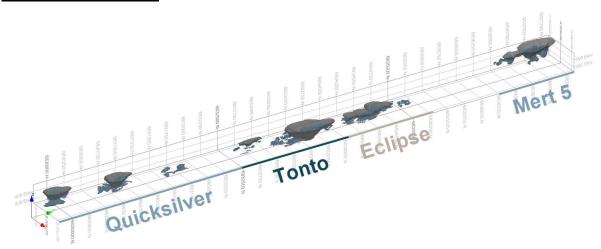


Figure 2. Oblique View, facing North West, showing Mertondale area optimised shells and mineralised lodes

The Mertondale area has two regional scale structures that host the deposits. The eastern structure lies within a basalt unit close to an upper intermediate volcaniclastic contact. The western structure lies within a schistose felsic volcanic that is isoclinally folded. The western structure has sheared the felsic volcanics and fine grained sediments.

The eastern structure mineralisation consists of an 8km long trend comprising the Merton's Reward, Mertondale 2 and Mertondale 3-4 deposits. The western structure is 15km in length and consists of a series of north trending, vertical dipping lodes, Mertondale 5, Tonto, Eclipse and Quicksilver deposits.

All "Mertondale West" and "Mertondale East" deposits are part of a large mineralised system lying on the boundary of a felsic volcanic unit overprinted by the north-south trending Mertondale Shear Zone.

The Mertondale West deposits of Quicksilver, Tonto, Eclipse and Mertondale 5 (Figure 2.) have been remodelled and re-estimated. The previous estimates of the Eclipse and Quicksilver deposits were completed in 2009, while Tonto and Mertondale 5 were last estimated in 2017.



Mineral Resources estimates are reported as blocks above 0.5g/t gold within the respective A\$2000 optimisation shape.

Table 3 details the Mineral Resource estimate for the Mertondale area which totals **7.9Mt @ 1.45 g/t Au for 367,000oz Au**.

			С	ardinia Gol	d Project:	Mineral R	esources: l	ebruary 2	2020						
Baseu	Resource		Measured Resources		Indic	ated Resou	ırces	Infe	rred Resou	rces	To	tal Resourc	es		
Project Area	Gold Price (AUD)	Lower Cut off (g/t Au)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Date Announced
Mertondale															
Mertons Reward	\$2,000	0.5				0.8	2.30	60	0.4	1.01	15	1.2	1.86	74	17-Apr-19
Mertondale 3-4	\$2,000	0.5				1.2	1.99	75	0.4	1.36	20	1.6	1.82	95	17-Apr-19
Tonto	\$2,000	0.5				1.6	1.19	63	0.8	1.30	32	2.4	1.23	95	17-Feb-20
Mertondale 5	\$2,000	0.5				0.4	1.84	24	0.4	1.36	18	0.8	1.60	42	17-Feb-20
Eclipse	\$2,000	0.5							0.7	1.00	22	0.7	1.00	22	17-Feb-20
Quicksilver	\$2,000	0.5							1.1	1.11	39	1.1	1.11	39	17-Feb-20
Subtotal Mertondal						4.0	1.72	222	3.8	1.17	145	7.9	1.45	367	

Table 3. Mineral Resource Estimates for the Mertondale Area: February 2020

Mertondale 5

Mertondale 5 was previous modelled in 2017 and most recently optimised and reported in July 2019. The 2017 estimate interpretation consisted of a series of thin, discreet, steeply dipping volumes (refer Figure 3.).

Diamond drilling below the Mertondale 5 pit completed in 2019 indicated that mineralisation is occurring in broader domains. The 2020 estimate uses a Categorical Indicator approach which incorporates geological and structural orientations as well as mineralisation information.

- Aircore data omitted for estimate.
- Reduced top-cut (cap) from 30g/t to 25g/t Au for high-grade and applied 5g/t for low-grade.
- Categorical Indicator used for creating mineralised envelopes.
- Structural and Geological information incorporated into interpretation using implicit wireframe construction.
- Increase in parent cell from to reflect drill spacing (from 3.125mN x 1.5625mE x 2.5mRL to 5mN x 5mE x 5mRL).
- Change of Estimation Technique from Inverse Distance Squared to Ordinary Kriging.



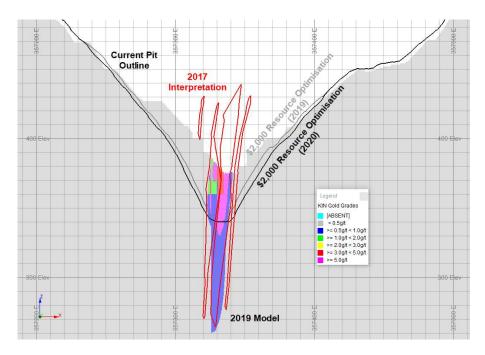


Figure 3. Section View at N6,837,065 showing differences between 2017 Interpretation model and 2019 model, with 2019 optimisation shell and 2020 optimisation shell used to confine the Mineral Resource estimate

Eclipse

Eclipse was previously estimated using a Recovered Fraction (RF) technique in 2009, which adopted broad mineralisation envelopes. The deposit has been re-estimated, utilising geological, structural and mineralisation data. It is observed that mineralisation data in this area is 'spotty' and less continuous that previously modelled (Figure 4). Ordinary Kriging estimation techniques have been adopted.

- Modelling cut-off increased from 0.2g/t to Indicator cut-off of 0.4g/t Au
- Categorical Indicator with Dynamic Anisotropy (DA) used for creating mineralised envelopes.
- Structural and Geological information incorporated into interpretation and estimate (DA).
- Estimation technique changed from Recovered Fraction to Ordinary Kriging.
- Optimisation shape parameters to constrain the estimate:
 - o Gold price reduced from A\$2,200/oz to A\$2,000/oz.
 - o Increased Metallurgical recovery in Fresh material from 60% to 90.2% based on metallurgical testwork and historical process plant performance on Mertondale 5 ores.



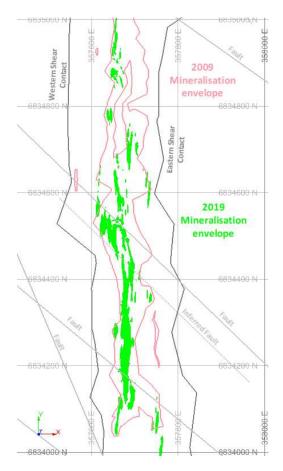


Figure 4. Plan section at 430RL at Eclipse showing previous and new mineralisation with Faults and Shear boundary interpretation

Tonto

Tonto was previous modelled in 2017 as a series of thin, discrete, steeply dipping lodes. The February 2020 estimate uses a Categorical Indicator technique which incorporates geological and structural orientations as well as mineralisation information (refer Figure 5.).

- Aircore data omitted for estimate.
- Modelling cut-off increased from 0.3g/t to Indicator cut-off of 0.4g/t Au
- Reduced Top-cut (cap) from 40g/t to 9g/t Au
- Categorical Indicator with Dynamic Anisotropy (DA) used for creating mineralised envelopes.
- Structural and geological information incorporated into interpretation and estimate (DA).
- Increase in parent cell to reflect drill spacing (from 3.125mN x 1mE x 2.5mRL to 5mN x 5mE x 5mRL).
- Estimation technique changed from Inverse Distance Squared to Ordinary Kriging.



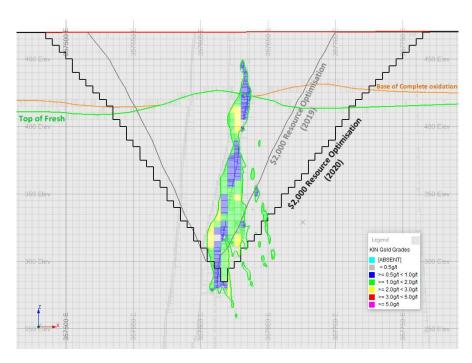


Figure 5. Section 6,833,449mN through Tonto – Cross section showing the depth of oxidation and difference between the 2019 optimisation shell and the 2020 optimisation shell.

It is important to note the presence of graphitic/carbonaceous shale ore, within the deeper unoxidised material at Tonto, displayed preg-robbing behaviour in previous laboratory scale metallurgical test work. Preg-robbing behaviour has a detrimental effect to the metallurgical recovery of gold in CIP or CIL type treatment plants.

This preg-robbing behaviour of Tonto graphitic/carbonaceous shale ores has been considered in light of discussions with Kin geologists and consultant Metallurgists (IMO). While standard (carbon in leach) treatment would result in preg-robbing behaviour of deeper Tonto ores, other treatment options that do not rely on carbon-based recovery methods are available to reduce or eliminate this behaviour.

On the basis that a viable treatment route is more likely than not to be available for this material the Tonto graphitic/carbonaceous shale ore has been included in the February 2020 Mineral Resource Estimate. Discussions with IMO on an effective strategy to process this material are ongoing.

Oxidised portions of the Tonto mineralisation (see "Top of Fresh" in Figure 5.) do not display this preg-robbing behaviour and have acceptable metallurgical recovery in CIL and CIP based testwork.

Quicksilver (QS)

Quicksilver was previously estimated using a 'Recovered Fraction' (RF) technique in 2009, which adopted broad mineralisation envelopes. The deposit has been re-estimated, utilising geological, structural and mineralisation data. Gold mineralisation at Quicksilver in more continuous than at Eclipse and the interpretation is consistent with previous work.

Changes to the estimate include:

Seven additional RC drill holes included (drilled late 2017).



- Aircore data omitted for estimate.
- Modelling cut-off increased from 0.2g/t to Indicator cut-off of 0.4g/t Au.
- Categorical Indicator with Dynamic Anisotropy (DA) used for creating mineralised envelopes.
- Structural and geological information incorporated into interpretation and estimate (DA).
- Estimation technique changed from a Recovered Fraction to Ordinary Kriging.
- Optimisation shape parameters to constrain the estimate
 - O Gold price reduced from A\$2,200/oz to A\$2,000/oz.
 - Increased Metallurgical recovery in Fresh material from 60% to 90.2% based on metallurgical testwork and historical process plant performance on Mertondale 5 ores.

Raeside Area

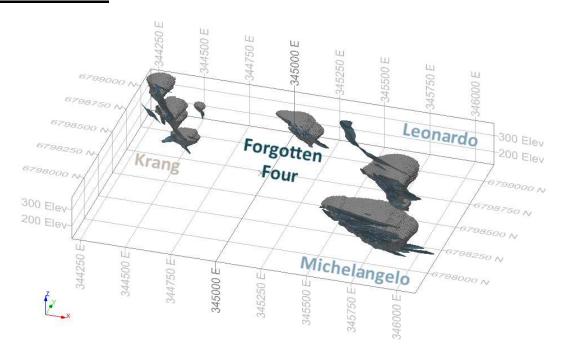


Figure 6. Oblique View, facing North West, showing Raeside optimised pits and mineralised lodes

The regional geology at Raeside, comprises of a sequence of Archaean greenstone lithologies. The area is underlain by very poorly exposed rocks units.

The gold deposits at Raeside occur within or close to the margins of a large NW-trending (320°) body of dolerite within a sequence of sediments and volcanoclastic rocks near the southern margin of a porphyry intrusive. Most of the gold recovered from mining the nearby Forgotten Four mine was from shear hosted quartz vein stockworks, sheeted veins and quartz carbonate veins adjacent to a narrow carbonaceous shale (dipping $40^{\circ}-60^{\circ}$ east). This sequence lies within a granophyric quartz dolerite and carbonate/sericite/sulphide altered wall rocks.

All four deposits at Raeside have been remodelled, re-estimated and re-optimised (refer Figure 6.). A sharp increase in the Mineral Resources estimate is noted. The increase is largely from the Michelangelo and Leonardo deposits, and can be attributed to the change in estimation technique.

Mineral Resource estimate reported as blocks above 0.5g/t Au within the respective A\$2,000/oz optimisation shape. Refer Table 4 for details.



Mineral Resource estimate for Raeside Area deposits total 2.5Mt @ 2.07 g/t Au for 168,000oz Au.

	Resource		Meas	ured Reso	urces	Indic	ated Resou	ırces	Infe	rred Resou	rces	То	tal Resourc	es		
Project Area	Gold Price Low	Lower Cut off (g/t Au)	Tonnes (Mt)	Au (g/t Au)	Au (k Oz)	Date Announced										
Raeside																
Michaelangelo	\$2,000	0.5				1.1	2.03	72	0.4	2.15	26	1.5	2.06	98	17-Feb-20	
Leonardo	\$2,000	0.5				0.4	2.38	30	0.1	1.92	9	0.5	2.26	39	17-Feb-20	
orgotten Four	\$2,000	0.5				0.1	2.11	7	0.1	1.97	6	0.2	2.04	14	17-Feb-20	
(rang	\$2,000	0.5				0.3	1.85	16	0.0	1.71	2	0.3	1.84	17	17-Feb-20	
Subtotal Raeside						1.9	2.08	125	0.7	2.05	43	2.5	2.07	168		

Table 4. Mineral Resource Estimates for the Raeside Area: February 2020

Michelangelo and Leonardo

The Michelangelo and Leonardo deposits were previously estimated by Carras Mining in 2017. This estimate was constrained within a A\$2,000/oz optimisation shape and reported by Kin in July 2019.

No new drilling or other optimisation parameter information has been collected in this area. However, a review of historical data has taken place as part of data validations.

A complete remodelling of the mineralised envelopes based on new, broadly similar geological interpretation has been undertaken.

Changes to the estimate include:

- Aircore data omitted for estimate.
- Modelling cut-off increased from 0.3g/t to 0.5g/t Au.
- Reduced top-cut (cap) from 25g/t for all lodes, to lode-specific top-cuts (between 12g/t and 25g/t).
- Increase in parent cell to reflect drill spacing (from 3.125mN x 1mE x 2.5mRL to 5mN x 5mE x 5mRL).
- Estimation technique changed from Inverse Distance cubed to Ordinary Kriging.

Figure 7 shows a comparison of the 2020 model and the Carras model estimated in 2017. The difference in the grade distribution is attributed to the change in estimation technique from Inverse Distance Cubed to Ordinary Kriging.

The use of Ordinary Kriging as an estimation technique is considered optimal for this style of lode gold deposit. Significant amounts of reliable drilling data are available and were used to validate the estimate.



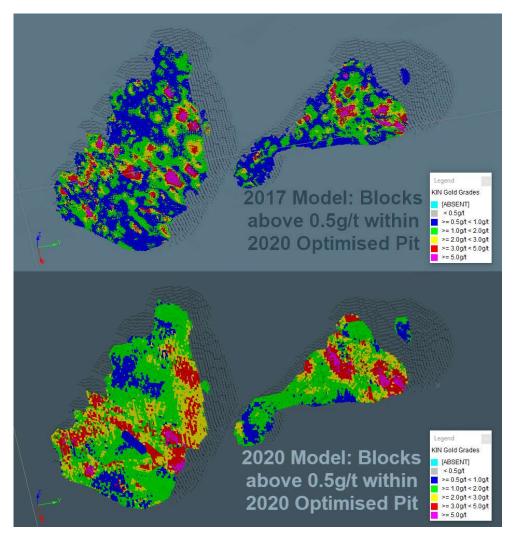


Figure 7. Oblique Plan view looking North West at Michelangelo and Leonardo, highlighting the differences between the 2017 and 2020 models attributed to changes in the estimation technique.

Krang and Forgotten Four

The Krang and Forgotten Four deposits were estimated in 2009 by McDonald Speijers. These deposits were re-optimised and reported by Carras Mining in 2017.

Both deposits have been re-interpreted and re-modelled. The geological interpretation of the deposits has remained broadly similar. Due to a change in estimation technique (Recovered Fraction to Ordinary Kriging) the mineralised wireframes have reduced from broad volumes to more discreet lodes.

- Aircore data omitted for estimate.
- Modelling cutoff increased from 0.2g/t to 0.5g/t Au.
- Estimation technique changed from a Recovered Fraction to Ordinary Kriging.
- Optimisation shape parameters to constrain the estimate
 - Gold price reduced from A\$2,200/oz to A\$2,000/oz.



-ENDS-

For further information, please contact:

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About Kin Mining NL

Kin Mining NL (ASX: KIN) is a West Australian based gold development and exploration company. Kin's key focus is its 100% owned Cardinia Gold Project (CGP) located in the highly prospective North-Eastern Goldfields region of Western Australia. The CGP has an 945koz gold Mineral Resource defined in oxide and deeper primary mineralisation with considerable potential to grow this Mineral Resource with further drilling.

COMPETENT PERSONS STATEMENT

The information contained in this report relating to Resource Estimation results relates to information compiled by Mr Jamie Logan. Mr Logan is a member of the Australian Institute of Geoscientists and was till recently a full time employee of the company. Mr Logan has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves".

The information contained in this report relating to exploration results relates to information compiled or reviewed by Glenn Grayson. Mr Grayson is a member of the Australasian Institute of Mining and Metallurgy and is a full time employee of the company. Mr Grayson has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves".

Both Mr Logan and Mr. Grayson consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

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ASX: KIN

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Appendix A

JORC 2012 TABLE 1 REPORT

Cardinia Gold Project - Section 1

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the	Diamond Historic (pre-2014) diamond core (DD) sampling utilised half core or quarter core sample intervals; typically varying from 0.3m to 1.4m in length. 1m sample intervals were favoured and sample boundaries principally coincided with geological contacts. Recent (2014-2018) diamond core (DD) samples, either HQ3 or NQ2 in size diameter, were either cut in half longitudinally or further cut into quarters, using a powered diamond core drop saw centered over a cradle holding core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. 2019 diamond core samples, either HQ3 or NQ2 in size diameter, were either cut in half longitudinally or a third longitudinally, using an automated Corewise core saw Core was placed in boats, holding core in place. Core sample intervals varied from 0.3 to 1.3m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. RC



Criteria	JORC Code explanation	Commentary
	appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the	Historic reverse circulation (RC) drill samples were collected over 1m downhole intervals beneath a cyclone and typically riffle split to obtain a sub-sample (typically 3-4kg). 1m sub-samples were typically collected in pre-numbered calico bags and 1m sample rejects were commonly stored at the drill site. 3m or 4m composited interval samples were often collected by using a scoop (dry samples) or spear (wet samples). If composite samples returned anomalous results once assayed, the single metre sub-samples of the anomalous composite intervals were retrieved and submitted for individual gold analysis.
}	Public Report.	Recent reverse circulation (RC) drill samples were collected by passing through a cyclone, a sample collection box, and riffle or cone splitter. All RC sub-samples were collected over one metre downhole intervals and averaged 3-4kg.
	In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling	2019 RC drilling samples were collected in 1m downhole intervals by passing through a cyclone, a collection box and then dropping through a cone splitter. All RC sub-samples were collected over one metre downhole intervals and averaged 3-4kg.
	was used to obtain 1 m samples from	AC/RAB
	which 3 kg was pulverised to produce a 30g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse	Historic air core (AC) and rotary air blast (RAB) were typically collected at 1 metre intervals and placed on the ground with 3-4kg sub-samples collected using a scoop or spear. Three metre or four metre composited interval samples were often collected by using a scoop (dry samples) or spear (wet samples). If composite samples returned anomalous results once assayed, the single metre sub-samples of the anomalous composite intervals were retrieved and submitted for individual gold analysis.
	gold that has inherent sampling	Assay Methodology
	problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	Historic sample analysis typically included a number of commercial laboratories with preparation as per the following method, oven drying (90-110°C), crushing (<-2mm to <-6mm), pulverizing (<-75μm to <-105μm), and riffle split to obtain a 30, 40, or 50gram catchweight for gold analysis. Fire Assay fusion, with AAS finish was the common method of analysis however, on occasion, initial assaying may have been carried out via Aqua Regia digest and AAS/ICP finish. Anomalous samples were subsequently re-assayed by Fire Assay fusion and AAS/ICP finish.
		Recent sample analysis typically included oven drying (105-110°C), crushing (<-6mm & <-2mm), pulverising (P90% <-75µm) and sample splitting to a representative 50gram catchweight sample for gold only analysis using Fire Assay fusion with AAS finish.
		Multi element analysis was also conducted on approximately 10% of samples, predominantly through ore zones. This was conducted via a 4-acid digest with ICP-MS/OES determination for a 48 element suite.
1		Rock Chips
		All rock chip samples are taken using a pick. The samples are taken from outcrop where possible. Samples are also taken from in situ float material or waste rock around historic workings, where outcrop is not present. Care is taken to ensure all samples are representative of the medium being sampled. For example, if a 1m sediment unit is being sampled, a channel sample will be taken across the entire unit.
		All recent drilling, sample collection and sample handling procedures were conducted and/or supervised by KIN geology personnel to high level industry standards. QA/QC procedures were implemented during each drilling program to industry standards.
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast,	Drilling carried out since 1986 and up to the most recent drill programs completed by KIN Mining was obtained from a combination of reverse circulation (RC), diamond core (DD), air core (AC), and rotary air blast (RAB) drilling.



Criteria	JORC Code explanation	Commentary
	auger, Bangka, sonic, etc) and details	Data prior to 1986 is limited due to lack of exploration.
	(eg core diameter, triple or standard tube, depth of diamond tails, face-	<u>Diamond</u>
	sampling bit or other type, whether core is oriented and if so, by what method, etc).	Historic DD was carried out using industry standard 'Q' wireline techniques, with the core retrieved from the inner tubes and placed in core trays. Core sizes include NQ/NQ3 (Ø 45-48mm) and HQ/HQ3 (Ø 61-64mm). At the end of each core run, the driller placed core blocks in the tray, marked with hole number and depth. Core recovery was usually measured for each core run and recorded onto the geologist's drill logs.
		2017 – 2018 DD was carried out by contractor Orbit Drilling Pty Ltd ("Orbit Drilling") with a Mitsubishi truck-mounted Hydco 1200H 8x4 drill rig, using industry standard 'Q' wireline techniques. 2019 DD was carried out y Topdrill Pty Ltd. With a Sandvick DE840 mounted on a Mercedes Benz 4144 Actros 8x8 Carrier. The rig is fitted with Sandvik DA555 hands free diamond drilling rod handler and Austex hands free hydraulic breakout.
		Drill core is retrieved from the inner tubes and placed in plastic core trays and each core run depth recorded onto core marker blocks and placed at the end of each run in the tray. Core sizes include NQ2 (Ø 47mm) and HQ3 (Ø 64mm).
		Recent DD core recovery and orientation was obtained for each core run where possible, using electronic core orientation tools (e.g. Reflex EZ-ACT) and the 'bottom of core' marked accordingly.
		2017 -18 drilling was measured at regular downhole intervals, typically at 10-15m from surface and then every 30m to bottom of hole, using electronic multi-shot downhole survey tools (i.e. Reflex EZ-TRAC or Camteq Proshot). Independent programs of downhole deviation surveying were also carried out to validate previous surveys. These programs utilised either electronic continuous logging survey tool (AusLog A698 deviation tool) or gyroscopic survey equipment.
		2019 DD was surveyed at regular downhole intervals (every 30m with an additional end-of-hole survey) using electronic gyroscopic survey equipment.
		<u>RC</u>
		Historic RC drilling used conventional reverse circulation drilling techniques, utilising a cross-over sub, or face-sampling hammers with bit shrouds. Drill bit sizes typically ranged between 110-140mm.
		2017-18 RC drilling was carried out by Orbit Drilling's truck-mounted Hydco 350RC 8x8 Actross drill rigs with 350psi/1250cfm air compressor, with auxiliary and booster air compressors (when required). Drilling utilised mostly downhole face-sampling hammer bits (Ø 140mm), with occasional use of blade bits for highly oxidized and soft formations. The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air compressors beneath the water table, to maintain dry sample return as much as possible. RC drillhole deviations were surveyed downhole, typically carried out inside a non-magnetic stainless steel (s/s) rod located above the hammer, using electronic multi-shot downhole tool (e.g. Reflex EZ-TRAC). In some instances, drillholes were surveyed later in open hole. Independent programs of downhole deviation surveying were also carried out to validate previous surveys. These programs utilised either electronic continuous logging survey tool (AusLog A698 deviation tool) or gyroscopic survey equipment.
		2019 RC drilling was carried out by Swick Mining Services truck-mounted Swick version Schramm 685 RC Drill Rig (Rod Handler & Rotary Cone Splitter) with support air truck and dust suppression equipment. Drilling utilised downhole face-sampling hammer bits (Ø 140mm). The majority of drilling retrieved dry samples, with the occasional use of the auxiliary and booster air



Criteria	JORC Code explanation	Commentary
		compressors beneath the water table, to maintain dry sample return as much as possible. 2019 RC was surveyed at regular downhole intervals (every 30m with an additional end-of-hole survey) using electronic gyroscopic survey equipment. AC/RAB Historic AC drilling was conducted utilising suitable rigs with appropriate compressors (eg 250psi/600cfm). AC holes were drilled using 'blade' or 'wing' bits, until the bit was unable to penetrate ('blade refusal'), often near the fresh rock interface. Hammer bits were used only when it was deemed necessary to penetrate further into the fresh rock profile or through notable "hard boundaries" in the regolith profile. No downhole surveying is noted to have been undertaken on AC drillholes. Historic RAB drilling was carried out using small air compressors (eg 250psi/600cfm) and drill rods fitted with a percussion hammer or blade bit, with the sample return collected at the drillhole collar using a stuffing box and cyclone collection techniques. Drillhole sizes generally range between 75-110mm. No downhole surveying is noted to have been undertaken on
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	Diamond Historic core recovery was recorded in drill logs for most of the diamond drilling programs since 1985. A review of historical reports indicates that core recovery was generally good (>80%) with lesser recoveries recorded in zones of broken ground and/or areas of mineralisation. Overall recoveries are considered acceptable for resource estimation. Recent core recovery data was recorded for each run by measuring total length of core retrieved against the downhole interval actually drilled and stored in the database. KIN representatives continuously monitor core recovery and core presentation quality as drilling is conducted and issues or discrepancies are rectified promptly to maintain industry best standards. Core recoveries averaged >95%, even when difficult ground conditions were being encountered. When poor ground conditions were anticipated, a triple tube drilling configuration was utilised to maximize core recovery RC/AC/RAB Historic sample recovery information for RC, AC, and RAB drilling is limited. Recent RC drilling samples are preserved as best as possible during the drilling process. At the end of each 1 metre downhole interval, the driller stops advancing, retracts from the bottom of hole, and waits for the sample to clear from the bottom of the hole through to the sample collector box fitted beneath the cyclone. The sample is then released from the sample collector box and passed through either a 3-tiered riffle splitter or cone splitter fitted beneath the sample box. Drilling prior to 2018 utilised riffle split collection whereas sample collection via a cone splitter was conducted for drilling undertaken since March 2018; cyclone cleaning processes remained the same. Sample reject is collected in plastic bags, and a 3-4kg sub-sample is collected in pre-marked calico bags for analysis. Once the samples have been collected, the cyclone, sample collector box and riffle splitter are flushed with compressed air, and the splitter cleaned by the off-sider using a compressed air hose at bot



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		RC drill sample recoveries are not recorded in the database however a review by Carras Mining Pty Ltd (CM) in 2017, of RC drill samples stored in the field, and ongoing observations of RC drill rigs in operation by KIN representatives, suggests that RC sample recoveries were mostly consistent and typically very good (>90%).
		Collected samples are deemed reliable and representative of drilled material and no material discrepancy, that would impede a mineral resource estimate, exists between collected RC primary and sub-samples.
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource	Logging data coded in the database, prior to 2014, illustrates at least four different lithological code systems, a legacy of numerous past operators (Hunter, MPI, Metana, CIM, MEGM, Pacmin, SOG, and Navigator). Correlation between codes is difficult to establish however, based on historical reports, drill hole logging procedures appear consistent with normal industry practices of the time.
	estimation, mining studies and metallurgical studies.	KIN has attempted to validate historical logging data and to standardize the logging code system by incorporating the SOG and Navigator logging codes into one.
	Whether logging is qualitative or	<u>Diamond</u>
	quantitative in nature. Core (or costean, channel, etc) photography.	Historical diamond core logging was recorded into drill logs for most of the diamond drilling programs since 1985. A review of historical reports indicates that logging noted core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features. Core was then marked up for cutting and sampling.
	The total length and percentage of the relevant intersections logged.	Navigator's procedure for logging of diamond core included firstly marking of the bottom of the core (for successful core orientations), then recording of core recovery, fractures per metre and RQD, lithology, alteration, texture, mineralisation, weathering, and other features. Core was then marked up for cutting and sampling. Navigator DD logging is predominantly to geological contacts.
		Navigator logging information was entered directly into hand held digital data loggers and transferred directly to the database, after validation, to minimize data entry errors.
		Drill core photographs, for drilling prior to 2014, are available only for diamond drillholes completed by Navigator.
		KIN DD logging is carried out on site once geology personnel retrieve core trays from the drill rig site. Core is collected from the rig daily. The entire length of every hole is logged. Recorded data includes lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded. KIN DD logging is to geological contacts.
		Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes percentages of identified minerals, veining, and structural measurements (using a kenometer tool). In addition, logging of diamond drilling includes geotechnical data, RQD and core recoveries.
		Drill core is photographed at the Cardinia site, prior to any cutting and/or sampling, and then stored in this location. Photographs are available for every diamond drillhole completed by KIN and a selection of various RC chip trays. SG data is also collect
		All information collected is entered directly into laptop computers or tablets, validated in the field, and then transferred to the database.



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		The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies, and metallurgical studies.
		Diamond drillholes completed for geotechnical purposes were independently logged for structural data by geotechnical consultants.
		RC/AC/RAB
		Historical RC, AC, and RAB logging (including Navigator) was entered on a metre by metre basis. Logging consisted of lithology, alteration, texture, mineralisation, weathering, and other features
		For the majority of historical drilling (pre-2004) the entire length of each drillhole have been logged from surface to 'end of hole'.
		KIN RC logging of was carried out in the field and logging has predominantly been undertaken on a metre by metre basis. KIN logging is inclusive of the entire length of each RC drillhole from surface to 'end of hole'.
		Recorded data includes lithology, alteration, structure, texture, mineralisation, sulphide content, weathering and other features. Drillhole collar coordinates, azimuth, dip, depth and sampling intervals are also recorded.
		Qualitative logging includes classification and description of lithology, weathering, oxidation, colour, texture and grain size. Quantitative logging includes identification and percentages of mineralogy, sulphides, mineralisation, and veining.
		Photographs are available for a selection of recent KIN RC drillholes.
		All information collected is entered directly into laptop computers or tablets, validated in the field, and then transferred to the database.
		The level of logging detail is considered appropriate for exploration and to support appropriate mineral resource estimation, mining studies, and metallurgical studies.
		Rock Chips
		All rock chip samples are inspected by the sampling geologist and logged for lithology, alteration, mineralisation, veining, and structural fabric. This is a combination of qualitative and quantitative data.
Sub-sampling techniques and	If core, whether cut or sawn and	<u>Diamond</u>
sample preparation	whether quarter, half or all core taken.	Historic diamond drill core (NQ/NQ3 or HQ/HQ3) samples collected for analysis were longitudinally cut in half, and occasionally
	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	in quarters for the larger (HQ/HQ3) diameter holes, using a powered diamond core drop saw centered over a cradle holding the core in place. Half core or quarter core sample intervals typically varied from 0.3m to 1.4m in length. 1m sample intervals were favoured and are the most common method of sampling, however sample boundaries do principally coincide with geological contacts. The remaining core was retained in core trays.
	For all sample types, the nature, quality and appropriateness of the sample	2017-18 diamond drill core samples collected for analysis were longitudinally cut in half, with some samples cut into quarters, using a powered diamond core drop saw blade centered over a cradle holding the core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected



Criteria	JORC Code explanation	Commentary
	preparation technique.	geological contacts. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference. All KIN diamond drill core is securely stored at the KIN Leonora Yard.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the	2019 diamond drill core samples collected for analysis were longitudinally cut in half, with some samples cut into thirds, using an automated Corewise powered diamond core saw with the blade centered over a boat holding the core in place. Core sample intervals varied from 0.2 to 1.25m in length but were predominantly aligned to 1m intervals or with sample boundaries which respected geological contacts. The remaining core was retained in their respective core trays and stored in KIN's yard for future reference. All KIN diamond drill core is securely stored at the Cardinia coreyard.
	sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half	All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of drilled material. QA/QC procedures implemented during each drilling program are to industry standard practice.
	sampling. Whether sample sizes are appropriate to	Samples sizes are considered appropriate for this style of gold mineralisation and as an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia.
	the grain size of the material being	RC/AC/RAB
	sampled.	Historic sampling was predominantly conducted by collecting 1m samples from beneath a cyclone and either retaining these primary samples or passing through a riffle splitter to obtain a 3-4kg sub-sample for analysis. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split samples being retained at the drill site as spoil or in sample bags. If composite sample assays returned anomalous results, the single metre samples for this composite were retrieved and submitted for analysis. RC/AC/RAB sampling procedures are believed to be consistent with the normal industry practices at the time.
		Samples obtained from conventional RC drilling techniques with cross-over subs often suffered from down hole contamination, especially beneath the water table. Samples obtained from RC drilling techniques using the face sampling hammer suffered less from down hole contamination and were more likely to be kept dry beneath the water table, particularly if auxiliary and booster air compressors were used. These samples are considered to be representative.
		The vast majority of Reverse Circulation (RC) drill samples were collected at 1m downhole intervals from beneath a cyclone and then riffle split to obtain a sub-sample (typically 3-4kg). After splitting, 1m sub-samples were typically collected in prenumbered calico bags, and the 1m sample rejects were commonly stored at the drill site in marked plastic bags, for future reference. First pass sampling often involved collecting composite samples by using a scoop (dry samples) or spear/tube (wet samples) to obtain 3m or 4m composited intervals, with the single metre split sub-samples being retained at the drill site. If the composite sample assays returned anomalous results, single metre sub-samples for the anomalous composite intervals were retrieved and submitted for analysis.
		Navigator included standards, fields duplicate splits (since 2009), and blanks within each drill sample batch, at a ratio of 1 for every 20 samples, with the number of standards being inserted at a ratio of 1 for every 50 samples.
		Recent RC sub-samples were collected over 1 metre downhole intervals and retained in pre-marked calico bags, after passing through a cyclone and either a riffle splitter, prior to March 2018, or cone splitter, after March 2018. The majority of RC subsamples consistently averaged 3-4kg. Sample reject from the riffle splitter were retained and stored in plastic bags, and located near each drillhole site. When drilling beneath the water table, the majority of sample returns were kept dry by the use of the



Criteria	JORC Code explanation	Commentary
		auxiliary and booster air compressors. Very few wet samples were collected through the splitter, and the small number of wet or damp samples is not considered material for resource estimation work.
		KIN RC drill programs utilise field duplicates, at regular intervals at a ratio of 1:25, and assay results indicate that there is reasonable analytical repeatability; considering the presence of nuggety gold.
		All sub-sampling techniques and sample preparation procedures conducted and/or supervised by KIN geology personnel are to standard industry practice. Sub-sampling and sample preparation techniques used are considered to maximise representivity of drilled material. QA/QC procedures implemented during each drilling program are to industry standard practice.
		Samples sizes are considered appropriate for this style of gold mineralisation and as an industry accepted method for evaluation of gold deposits in the Eastern Goldfields of Western Australia.
		No duplicates are taken for rock chip sampling. Sample sizes are approximately 3kg, this is considered appropriate for the material being sampled.
laboratory tests of protection for tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the	Numerous assay laboratories and various sample preparation and assay techniques have been used since 1981. Historical reporting and descriptions of laboratory sample preparation, assaying procedures, and quality control protocols for the samples from the various drilling programs are variable in their descriptions and completeness.
	technique is considered partial or total.	Assay data obtained prior to 2001 is incomplete and the nature of results could not be accurately quantified due to the combinations of various laboratories and analytical methodologies utilised.
	For geophysical tools, spectrometers, handheld XRF instruments, etc, the	Since 1993, the majority of samples submitted to the various laboratories were typically prepared for analysis firstly by oven drying, crushing and pulverizing to a nominal 85% passing 75µm.
	parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	In the initial exploration stages, Aqua Regia digest with AAS/ICP finish, was generally used as a first pass detection method, with follow up analysis by Fire Assay fusion and AAS/ICP finish. This was a common practice at the time. Mineralised intervals were subsequently Fire Assayed (using 30, 40 or 50 gram catchweights) with AAS/ICP finish.
	Nature of quality control procedures adopted (eg standards, blanks,	Approximately 15-20% of the sampled AC holes may have been subject to Aqua Regia digest methods only, however AC samples were predominantly within the oxide profile, where aqua regia results would not be significantly different to results from fire assay methods.
	duplicates, external laboratory checks)	Limited information is available regarding check assays for drilling programs prior to 2004.
	and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	During 2004-2014, Navigator utilised six different commercial laboratories during their drilling programs, however Kalgoorlie Assay Laboratories conducted the majority of assaying for diamond, RC, and AC samples using Fire Assay fusion on 40 gram catchweights with AAS/ICP finish.
		Since 2009 Navigator regularly included field duplicates and Certified Reference Material (CRM), standards and blanks, with their sample batch submissions to laboratories at average ratio of 1 in 20 samples. Sample assay repeatability and blank and CRM standard assay results were typically within acceptable limits.
		KIN sample analysis from 2014 to 2018 was conducted by SGS Australia Pty Ltd's ("SGS") Kalgoorlie and Perth laboratories. Sample preparation included oven drying (105°C), crushing (<6mm), pulverising (P90% passing 75µm) and riffle split to obtain a 50 gram



Criteria	JORC Code explanation	Commentary
		catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish (SGS Lab Code FAA505).
		• KIN regularly insert blanks and CRM standards in each sample batch at a ratio of 1:50. This allows for at least one blank and one CRM standard to be included in each of the laboratory's fire assay batch of 50 samples. Field duplicates are typically collected at a ratio of 1:50 samples and test sample assay repeatability. Blanks and CRM standards assay result performance is predominantly within acceptable limits for this style of gold mineralisation.
		 KIN requests laboratory pulp grind and crush checks at a ratio of 1:50 or less since May 2018 in order to better qualify sample preparation and evaluate laboratory performance. Samples have generally illustrated appropriate crush and grind size percentages since the addition of this component to the sample analysis procedure.
		SGS include laboratory blanks and CRM standards as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are typically within acceptable limits.
		From late 2018 samples have been analysed by Intertek Genalysis, with sample preparation either at their Kalgoorlie prep laboratory or the Perth Laboratory located in Maddington. Sample preparation included oven drying (105°C), crushing (<6mm), pulverising (P90% passing 75µm) and split to obtain a 50 gram catchweight. Analysis for gold only was carried out by Fire Assay fusion technique with AAS finish.
		• KIN regularly insert blanks and CRM standards in each sample batch at a ratio of 1:25. Kin accepts that this ratio of QAQC is industry standard. Field duplicates are typically collected at a ratio of 1:25 samples and test sample assay repeatability. Blanks and CRM standards assay result performance is predominantly within acceptable limits for this style of gold mineralisation.
		• KIN requests laboratory pulp grind and crush checks at a ratio of 1:50 or less since May 2018 in order to better qualify sample preparation and evaluate laboratory performance. Samples have generally illustrated appropriate crush and grind size percentages since the addition of this component to the sample analysis procedure.
		 Genalysis include laboratory blanks and CRM standards as part of their internal QA/QC for sample preparation and analysis, as well as regular assay repeats. Sample pulp assay repeatability, and internal blank and CRM standards assay results are typically within acceptable limits.
		The nature and quality of the assaying and laboratory procedures used are considered to be satisfactory and appropriate for use in mineral resource estimations.
		Fire Assay fusion is considered to be a total extraction technique. The majority of assay data used for the mineral resource estimations were obtained by the Fire Assay technique with AAS or ICP finish. AAS and ICP methods of detection are both considered to be suitable and appropriate methods of detection for this style of mineralisation
		Aqua Regia is considered a partial extraction technique, where gold encapsulated in refractory sulphides or some silicate minerals may not be fully dissolved, resulting in partial reporting of gold content.
		No other analysis techniques have been used to determine gold assays.
		Ongoing QAQC monitoring program identified one particular CRM returning spurious results. Further analysis demonstrated that the standard was compromised and was subsequently removed and destroyed. A replacement CRM of similar grade was substituted into the QAQC program.



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		KIN continues to both develop and reinforce best practice QAQC methods for all drilling operations and the treatment and analysis of samples. Regular laboratory site visits and audits have been introduced since April 2018 and will be conducted on a quarterly basis. This measure will ensure that all aspects of KIN QAQC practices are adhered to and align with industry best practice.
		All rock chip samples have been submitted to Intertek Genalysis (Perth) for analysis by 50g Fire assay, with multi-element analysis via a 4-acid digest for a 48-element suite. Sample preparation included oven drying (105°C), crushing (<6mm), pulverising (P90% passing 75µm). Blanks and standards are inserted by the lab at a minimum rate of 1 in 50. Lab repeats are performed for samples with particularly high gold values. Due to the nature and intended uses of this data, this QAQC procedure is intentionally less rigorous than that used for drilling samples.
Verification of sampling and assaying	The verification of significant intersections by either independent or	Verification of sampling, assay techniques, and results prior to 2004 is limited due to the legacy of the involvement of various companies, personnel, drilling equipment, sampling protocols and analytical techniques at different laboratories.
	alternative company personnel. The use of twinned holes.	During 2009, a selection of significant intersections had been verified by Navigator's company geologists and an independent consultant McDonald Speijers ("MS"). MS were able to validate 92% of the assay records in 50 randomly selected check holes, and only 6 assay discrepancies were detected (< 0.2%), only 2 of those were considered significant. MS concluded that the very small proportion of discrepancies indicated that the assay database was probably reliable at that time.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic)	In 2009, Runge Ltd ("Runge") completed a mineral resource estimate report for the Cardinia Project area, including the Helens, Rangoon, Kyte and Bruno_Lewis deposits. Runge's database verification included basic visual validation in Surpac and field verification of drillhole positions in February 2009. Runge did not report any significant issues with the database.
	protocols.	Since 2014, significant drill intersections have been verified by KIN company geologists during the course of the drilling programs.
	Discuss any adjustment to assay data.	During 2017, Carras Mining Pty Ltd ("CM") carried out an independent data verification. 38,098 assay records for KIN 2014-2017 drilling programs were verified by comparing laboratory assay reports against the database. 6 errors were found, which are not considered material and which represented only 0.03% of all database records verified for KIN 2014-2017 drilling programs
		No adjustments, averaging or calibrations are made to any of the assay data recorded in the database. QA/QC protocol is considered industry standard with standard reference material submitted on a routine basis.
		Recent (2014-2018) RC and diamond drilling by KIN included twinning of some historical holes within the Helens and Rangoon resource areas. There is no significant material difference between historical drilling information and KIN drilling information.
		Areas without twinned holes illustrate a drill density that is considered sufficient to enable comparison with surrounding historic information. No material difference of a negative nature exists between historical drilling information and KIN drilling information.
		KIN diamond holes drilled for metallurgical and geotechnical test work illustrate assay results with adequate correlation to both nearby historical and recent drilling results.
		No adjustment or calibration has been made to assay data.



Criteria	JORC Code explanation	Commentary
Location of data points	Accuracy and quality of surveys used to locate drill holes (collar and down-hole	Several local grids were established and used by previous project owners. During the 1990s, SOG transformed the surface survey data firstly to AMG and subsequently to MGA (GDA94 zone51).
	surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Navigator recognised errors in the collar co-ordinates resulting from transformations and as a result, a significant number of holes were resurveyed and a new MGA grid transformation generated. Historical collars have been validated against the original local grid co-ordinates and independently transformed to MGA co-ordinates and checked against the database. Navigator's MGA co-ordinates were checked against the surveyor's reports.
	Specification of the grid system used. Quality and adequacy of topographic	Drilling was carried out using these various local grids. Since 2004, All Navigators drill hole collars were surveyed on completion of drilling in the Australian MGA94, Zone51 grid using RTK-DGPS equipment by licensed surveyors, with more than 80% of the pickups carried out by independent contractors.
	control.	Almost all the diamond and at least 70% of Navigator RC holes were downhole surveyed. Pre-Navigator, single shot survey cameras were used, with typical survey intervals of 30-40 metres.
		Recent KIN drill hole collars are located and recorded in the field by a contract surveyor using RTK-DGPS (with a horizontal and vertical accuracy of ±50mm). Location data was collected in the GDA94 Zone51 grid coordinate system.
		Downhole surveying was predominantly carried out by the drilling contractor which, prior to late 2018, was Orbit Drilling Pty Ltd. This was conducted using a downhole electronic single shot magnetic tool. (Relfex EZ-shot), which is industry standard practice. This is considered sufficiently accurate except where significant magnetic interference is encountered. The magnetic field is recorded on every survey and flagged when likely to interfere with the reading. These surveys are downgraded in the database. In addition, if the downhole survey tool is located within 15 metres of the surface, there is risk of influence from the drill rig affecting the azimuth readings. This was observed for the survey readings, which include total magnetic intensity (TMI) measurements, where TMI is spurious for readings taken at downhole depths less than 20 metres. These spurious readings are included in the database, but are not used.
		Downhole surveying in 2019 has been conducted by the drilling contractors (Topdrill Pty Ltd and Swick Mining Services Pty Ltd) utilizing downhole electronic gyroscopic survey tools. These are considered very accurate and not susceptible to magnetic interference. No further surveying required to check drill hole deviation.
		A small selection of drillhole collars, which do not have DGPS collar surveys, were picked up with a handheld GPS and individually appraised in regards to their location prior to modelling; the position of these collars is deemed appropriate for the resource estimation work.
		Considering the history of grid transformations and surviving documentation, there might be some residual risk of error in the MGA co-ordinates for old drillholes, however this is not considered to be material for the resource estimation.
		Azimuth data was historically recorded relative to magnetic north. Much of the historical drilling data was recorded relative to magnetic north. Variation in magnetic declination for the Cardinia Project area is calculated at +0.823° East (1985) to +1.301° East (2017), with a maximum variation of +1.575° in 2005. The difference between true north and magnetic north, and the annual variation in magnetic declination since 1985 is not significant, therefore magnetic north measurements have been used, where true north data is unavailable, for all survey data used in resource estimation processes.
		The accuracy of drill hole collars and downhole data are located with sufficient accuracy for use in resource estimation work.



Criteria	JORC Code explanation	Commentary
		For rock chip samples, locations are recorded at the time of sampling using a handheld GPS in the GDA94 Zone51 grid coordinate system.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Drill hole spacing patterns vary considerably throughout the Cardinia Gold Project area and are deposit specific, depending on the nature and style of mineralisation being tested.
	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 within the resource areas is sufficient to establish an acceptable degree of geological and grade continuity and is appropriate for both the mineral resource estimation and the resource classifications applied.
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible	The Cardinia greenstone sequence displays a NNW to NW trend. Drilling and sampling programs were carried out to obtain unbiased locations of drill sample data, generally orthogonal to the strike of mineralisation.
geological structure	structures and the extent to which this is known, considering the deposit type.	At Helens mineralisation is structurally controlled in sub-vertical shear zones, with supergene components of varying lateral extensiveness present in the oxide profile.
	If the relationship between the drilling	The vast majority of historical drilling, pre-Navigator (pre-2004), and KIN drilling is orientated at -60°/245° (WSW) and -60°/065° (ENE).
	orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	At Bruno-Lewis and Kyte, mineralisation is either stratigraphy parallel (trending NNW, steep to moderately W-dipping) or cross-cutting and dipping shallowly to the NE (striking NW). The vast majority of the drilling is therefore predominantly orientated at -60°/225-250° or -60°/090°. Grade Control drillholes were drilled vertically. Since late 2018, Kin's drilling has been largely oriented to 070° to target contact lodes and 225-250° to target the NE-dipping potassic lodes.
		The chance of sample bias introduced by sample orientation is considered minimal. No orientation sampling bias has been identified in data thus far.
Sample security	The measures taken to ensure sample	No sample security details are available for pre-Navigator (pre-2004) drill or field samples.
	security.	Navigator drill samples (2004-2014) were collected in pre-numbered calico bags at the drill rig site. Samples were then collected by company personnel from the field and transported to the secure Navigator yard in Leonora. Samples were then batch processed (drillhole and sample numbers logged into the database) and then packed into 'bulkabag sacks'. The bulkabags were tied off and stored securely in the Navigator yard until being transported to the selected laboratory. There was no perceived opportunity for the samples to be compromised from collection of samples at the drill site to delivery to the laboratory.
		2017 -18 KIN RC drill samples were collected in pre-numbered calico bags at the drill rig site. The samples were then batch



Criteria	JORC Code explanation	Commentary
		processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at the secure KIN yard location in Leonora. Bulkabags were tied off and stored securely in the yard until being transported to the laboratory.
		2019 RC drill samples were collected in pre-numbered calico bags at the drill rig site. The samples were then batch processed (drillhole and sample numbers encoded onto a hardcopy sample register) in the field, and then transported and stacked into 'bulkabag sacks' at the Cardinia office.
		2017-18 KIN DD samples were obtained by KIN personnel in pre-numbered calico bags at the KIN yard location in Leonora. Samples were then stacked into 'bulkabag sacks' at the yard location and stored securely until being transported to the laboratory.
		2019 samples were obtained by KIN personnel in pre-numbered calico bags at the core yard located at the Cardinia office. Samples were then stacked into 'bulkabag sacks' at the yard location and stored securely until being transported to the laboratory.
		Transport contractors are utilised to transport samples to the laboratory. No perceived opportunity for samples to be compromised from collection of samples at the drill site, to delivery to the laboratory, where they were stored in their secure compound, and made ready for processing is deemed likely to have occurred.
		On receipt of the samples, the laboratory independently checked the sample submission form to verify samples received and readied the samples for sample preparation. SGS and Genalysis sample security protocols are of industry standard and deemed acceptable for resource estimation work.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Historic drilling and sampling methods and QA/QC are regarded as not being as thoroughly documented compared to current standards. Inhouse reviews of various available historical company reports of drilling and sampling techniques indicates that these were most likely conducted to industry best practice and standards of the day.
		Independent geological consultants Runge Ltd completed a review of the Cardinia Project database, drilling and sampling protocols, and so forth in 2009. The Runge report highlighted issues with bulk density and QA/QC analysis within the supplied database. Identified issues were subsequently addressed by Navigator and KIN.
		Carras Mining Pty Ltd (CM), an independent geological consultant, reviewed and carried out an audit on the field operations and database in 2017. Drilling and sampling methodologies observed during the site visits were to industry standard. No issues were identified for the supplied databases which could be considered material to a mineral resource estimation. During the review, Carras Mining logged the oxidation profiles (base of complete oxidation and top of fresh rock) for each of the deposit areas, based on visual inspection of selected RC drill chips from KIN's recent drilling programs, and a combination of historical and KIN drillhole logging. Final adjustments were made with input from KIN geologists. The oxidation profiles were used to assign bulk densities and metallurgical recoveries to the 2017 resource models.
		Past bulk density test work has been inconsistent with incorrect methods employed, to derive specific gravity or in-situ bulk density, rather than dry bulk density. Navigator (2009) and recent KIN (2017) bulk density test work was carried out using the water immersion method on oven dried, coated samples to derive dry bulk densities for different rock types and oxidation profiles. This information has been incorporated into the database for resource estimation work. CM conducted site visits during 2017 to the laboratory to validate the methodology.



Criteria	JORC Code explanation	Commentary
		Drilling, sampling methodologies, and assay techniques used in these drilling programs are considered to be appropriate and to mineral exploration industry standards of the day.
		Laboratory site visits and audits were introduced in April 2018 and are conducted on a quarterly basis. This measure ensures that all aspects of KIN QAQC practices are adhered to and align with industry best practice.



Cardinia

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title	The Cardinia Project, 35-40km NE of Leonora is managed, explored and maintained by KIN, and constitute a portion of KIN's Cardinia Gold Project (CGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields.
	interests, historical sites, wilderness or national park and environmental settings.	The Helens and Rangoon area includes granted mining tenements M37/316 and M37/317, The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	The Bruno-Lewis and Kyte areas includes granted mining tenements M37/86, M37/227, M37/277, M37/300, M37/428 and M37/646. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The following royalty payment may be applicable to the areas within the Cardinia Project's Bruno and Lewis areas that comprise the deposits being reported on:
		 Gloucester Coal Ltd (formerly CIM Resources Ltd and Centenary International Mining Ltd) in respect of M37/86 - 1% of the quarterly gross value of sales for gold ounces produced, in excess of 10,000 ounces.
		There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the outlined current resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	At Cardinia, from 1980-1985, Townson Holdings Pty Ltd ("Townson") mined a small open pit over selected historical workings at the Rangoon prospect. Localised instances of drilling relating to this mining event are not recorded and are considered insubstantial and immaterial for resource modelling Companies involved in the collection of the majority of the gold exploration data since 1985 and prior to 2014 include: Thames Mining NL ("Thames") 1985; Mt Eden Gold Mines (Aust) NL (also Tarmoola Aust Pty Ltd "MEGM") 1986-2003; Centenary International Mining Ltd ("CIM") 1986-1988, 1991-1992; Metana Minerals NL ("Metana") 1986-1989; Sons of Gwalia Ltd ("SOG") 1989, 1992-2004; Pacmin Mining Corporation ("Pacmin") 1998-2001, and Navigator Resources Ltd ("Navigator") 2004-2014.
		In 2009 Navigator commissioned Runge Limited ("Runge") to complete a Mineral Resource estimate for the Bruno, Lewis, Kyte, Helens and Rangoon deposits. Runge reported a JORC 2004 compliant Mineral Resource estimate, at a cut-off grade of 0.7g/t Au, totaling 1.45Mt @ 1.3 g/t au (61,700 oz Au) for Helens and Rangoon, and totaling 4.34Mt @ 1.2 g/t au (169,700 oz Au) for Bruno, Lewis and Kyte.
		A trial pit (Bruno) was mined by Navigator in 2010, and a 'test parcel' of ore was extracted and transported



Criteria	JORC Code explanation	Commentary
		firstly to Sons of Gwalia's processing plant in Leonora, and finally to Navigator's processing plant located at Bronzewing, where approximately 100,000 tonnes were processed at an average head grade of 2.33 g/t au (7,493 oz Au).
Geology	Deposit type, geological setting and style of mineralisation.	The Cardinia Project area is located in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
		The regional geology comprises a suite of NNE-North trending greenstones positioned within the Mertondale Shear Zone (MSZ) a splay limb of the Kilkenny Lineament. The MSZ denotes the contact between Archaean felsic volcanoclastics and sediment sequences in the west and Archaean mafic volcanics in the east. Proterozoic dolerite dykes and Archaean felsic porphyries have intruded the sheared mafic/felsic volcanoclastic/sedimentary sequence.
		Locally within the Cardinia Project area, the stratigraphy consists of intermediate, mafic and felsic volcanic and intrusive lithologies and locally derived epiclastic sediments, which strike NNW, dipping steep-to-moderately to the west. Structural foliation of the areas stratigraphy predominantly dips steeply to the east but localised inflections are common and structural orientation can vary between moderately (50-75°) easterly to moderately westerly dipping.
		Mineralisation at Helens is conrolled by a cross-cutting fault, hosted predominantly in mafic rock units, adjacent to the felsic volcanic/sediment contacts. The ore zones are associated with increased shearing, intense alteration and disseminated sulphides. Minor supergene enrichment occurs locally within mineralised shears throughout the regolith profile.
		Mineralisation at Bruno-Lewis is largely controlled by the stratigraphic contact between basalt and felsic volcanics. Gold is associated with significant sulphide mineralisation in the sediments and volcaniclastics between the 2 volcanic units. Gold is also hosted within shallowly NE-dipping lodes, associated with increased potassic-sericite alteration and quartz stockwork veining. These lodes also host the mineralisation at Kyte. Substantial supergene mineralisation sits above both styles of mineralisation.
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:	Material drilling information for exploration results has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
	 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 	



Criteria	JORC Code explanation	Commentary
	the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports. Since 2014, KIN have reported RC drilling intersections with low cut off grades of >= 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au. There is no reporting of metal equivalent values.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	The orientation, true width, and geometry of mineralised zones have been primarily determined by interpretation of historical drilling and continued investigation and verification of KIN drilling. Drill intercepts are reported as downhole widths not true widths. Accompanying dialogue to reported intersections normally describes the attitude of mineralisation.
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.	Appropriate maps and sections are included in the main body of this report.



Criteria	JORC Code explanation	Commentary
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.	Public reporting of exploration results by KIN and past tenement holders and explorers for the resource areas are considered balanced. Representative widths typically included a combination of both low and high grade assay results. All meaningful and material information relating to this mineral resource estimate is or has been previously 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 substances.	Since 2018, a campaign of determining Bulk Densities has been undertaken. The water displacement method is used on drill samples selected by the logging geologist. These measurements are entered into the logging software interface and loaded to the Datashed database.
Further work	The nature and scale of planned further work (eg 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.	KIN intend to continue exploration and drilling activities at in the described area, with the intention to increase the project's resources.



Raeside

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	The Raeside Project area includes granted mining tenement M37/1298, centered some 10km ESE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. The Raeside Project is managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields.
	The security of the tenure held at the time of reporting along	The following royalty payment may be applicable to the areas within the Raeside Project that comprise the deposits being reported on:
with any k	with any known impediments to obtaining a licence to operate in the area.	 Messers Blitterswyk, Halloran & Prugnoli, in respect of dead mineral tenements M37/256, M37/369, M37/377, M37/379, P37/4046 and MLA37/563, which are partly or wholly overlain by M37/1298 - \$1.00 per tonne of ore mined and milled for the extraction of gold or other saleable mineral.
		There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Gold was first discovered in the Leonora district about 1896 and it is likely that the first prospecting activity in and around the Raeside Project area would have occurred at about that time. Initial production from Raeside was a small underground operation in the early 1970's when 60t @ 6.0 g/t Au was produced.
		In 1989, Triton Resources Limited (Triton) entered into an arrangement with local prospectors (Halloran and Prugnoli) to acquire some tenements in what is known as the Forgotten Four area. The Triton Raeside Joint Venture mined the Forgotten Four (1990-1992) to 45m depth. Production statistics include:
		1990: Mined and processed 6,280t @ 5.18 g/t Au (959oz) at the Tower Hill plant in Leonora with 91.7% recovery. 1992: Mined and processed 40,537t @ 4.14 g/t Au (4,993oz) at the Harbour Lights plant in Leonora with 92.57% recovery. Finally a 2,822t parcel of ore (4.47 g/t Au) (389oz) was sold to Harbour Lights. In 1992 remnant ore from low grade stockpiles totaling 6,200t @ 1.0 g/t Au (199oz) was processed. Thus total production from the nearby Forgotten Four open cut yielded 55,839t @ 3.92 g/t Au (7,030oz) with an estimated recovery of approximately 92%. None of the reported production figures have been confirmed from official Mines Department records.
		The larger Raeside Project originated in 1992, when Triton (70%) formed a joint venture with Sabre Resources N.L. (Sabre) (20%) and Copperwell Pty Ltd (Copperwell), a subsidiary of Cityview Energy Corporation (10%). The three companies amalgamated their tenement holdings in the area and the joint



Criteria	JORC Code explanation	Commentary
		venture applied for additional tenements.
		Until sometime in 1994 the project was managed on behalf of the joint venture by Westchester Pty Ltd. Incomplete drilling records indicate that Westchester had been involved to some extent in managing exploration in the area for Triton prior to 1992. After mid-1994 Triton appears to have taken over as project manager.
		Before 1995, drilling programs were apparently dominated by first-pass rotary air blast (RAB) drilling, with local reverse circulation (RC) rotary or percussion drilling to follow up in places where mineralisation was detected. Because of RAB drilling difficulties (clays and water) air core (AC) drilling was subsequently adopted as the first-pass method.
		Triton's drilling programs were suspended in June 1995 while a major review of results was undertaken and a pre-feasibility study was conducted. Drilling resumed in about April 1995.
		Another economic evaluation of the project was undertaken by Triton in 1998-1999 which indicated that a stand-alone operation was not possible, but that the project could be viable as a supplementary feed source for an existing, nearby process plant.
		SOG farmed in to the project in January 2000 and subsequently acquired full ownership. They carried out limited amounts of predominantly RC drilling, aimed mainly at confirming previous results from the Michelangelo deposit.
		Navigator Resources Ltd (Navigator) acquired the Raeside project from SOG in September 2004.
		Subsequent work by Navigator has focused mainly on other projects in the Leonora district, with only very small amounts of additional drilling having been completed in the Raeside area.
		In 2009, Navigator commissioned MS to complete a Mineral Resource estimate for the Raeside deposits. MS reported a JORC 2004 compliant Indicated Mineral Resource estimate, at a low cutoff grade of 0.7g/t Au, totaling 1.28Mt @ 2.68 g/t Au (111,000oz).
		KIN acquired the Raeside Project from Navigator's administrator in 2014.
Geology	Deposit type, geological setting and style of mineralisation.	The Raeside Project area is located 10km ESE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
		The regional geology comprises a sequence of Archaean greenstone lithologies. The area is underlain by very poorly exposed rocks units. The gold deposits at Raeside occur within or close to the margins of a large NW (320°) trendy body of dolerite within a sequence of sediments and volcanoclastic rocks near the southern margin of porphyry intrusive. Most of the gold recovered from mining the nearby Forgotten Four mine was from shear bound quartz vein stockworks or sheeted veins and/or quartz carbonate veins within a narrow carbonaceous shale (dipping 40°-60° East) lying within a granophyric quartz dolerite and carbonate/sericite/sulphide altered wall rocks.



Criteria	JORC Code explanation	Commentary
		Gold mineralisation at Michelangelo is hosted by a uniform metamorphosed medium grained dolerite. The deposit occurs on or above the basal sheared contact of the quartz dolerite. Four or five extensive quartz vein structures dip at 30°-40° to the northeast, extending over a strike length of 575m with a total stratigraphic thickness of approximately 90m. The position of the footwall has been roughly delineated however no other convincing geological boundaries are defined. Gold mineralisation at Leonardo occurs mainly in a partly carbonaceous-graphitic shale (coded as generic
		metasediment) close to/adjacent to but above the quartz mafic contact. The mineralisation dips 35°-50° to the east however this ore body exhibits significant differences to the other deposits. Initially the mineralisation at Leonardo is hosted in sedimentary rocks above the quartz diorite. Secondly the mineralisation is associated with a zone of strong bleaching, sericitisation and silicification, often up to +20m wide. The strike length of the steeply plunging north main shoot is approximately 60m. Thirdly the gold mineralisation occurs within a relatively linear shear zone that is traceable over 2km of strike; the shear contains significant mineralisation in at least three other locations along strike.
		Mineralised zones at Forgotten Four are mainly hosted by mafics however the uppermost (strongest) zone of mineralisation appears to be positioned just below the lower contact of overlying sediments, and one of the lower zones appear to coincide with a sporadically developed sediment wedge in the mafic rocks. The sediments are also mineralised. At the Forgotten Four the strongest zone of mineralisation is just below the lower contact with the overlying carbonaceous shale and sediments. The bulk of the mineralisation is hosted by dolerite along the upper contact with the interbedded shale and the quartz diorite. There are at least two lodes at Forgotten Four, one of which was partly mined by Triton (55,839t @ 3.92 g/t Au for 7,030oz Au) the second lode occurs in the hanging wall to the south.
		Mineralisation at Krang appears to be broadly related to the metasediments however, once again, no convincing geological boundaries are defined. Along the eastern side of the deposit mineralisation appears to be broadly associated with the contact zones between mafic and metasedimentary units. Some of the mineralisation is associated with massive quartz-pyrite-arsenopyrite lodes which display high but erratic grade. Gold mineralisation occurs internal to the quartz dolerite unit which displays varying dips ranging from 30° to 60° to the northeast; interpretation suggests two different structural styles. Mineralisation occurs in at least four separate pods over a continuous strike length of about 700m.
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:	Material drilling information for exploration results has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
	 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 	



Criteria	JORC Code explanation	Commentary
	 hole length. If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports. Since 2014, KIN have reported RC drilling intersections with low cut off grades of >= 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au. There is no reporting of metal equivalent values.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling and verified by KIN's drilling. The majority of historic drill holes within the pit area are inclined at -60° towards 280° (west). Later drilling was undertaken on the Raeside local grid, with a base line orientated to 330° (north west). The KIN RC drilling is orientated towards 225° (SW), which is regarded as the optimum orientation to intersect the target mineralisation. Since the mineralisation is moderately dipping (-40° to -60° easterly), drill intercepts are reported as downhole widths, not true widths. Accompanying dialogue to reported intersections normally describe the attitude of the mineralisation.
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.	Appropriate maps and sections are included in the main body of this report.



Criteria	JORC Code explanation	Commentary
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.	Public reporting of exploration results by KIN and past tenement holders and explorers for the resource areas are considered balanced. Representative widths typically included a combination of both low and high grade assay results. All meaningful and material information relating to this mineral resource estimate is or has been previously 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 substances.	Since 2018, a campaign of determining Bulk Densities has been undertaken. The water displacement method is used on drill samples selected by the logging geologist. These measurements are entered into the logging software interface and loaded to the Datashed database.
Further work	The nature and scale of planned further work (eg 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.	KIN intend to continue exploration and drilling activities at in the described area, with the intention to increase the project's resources.



Mertondale

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	The Mertondale Project area includes granted mining tenements M37/1284 (Mertons Reward), M37/81 and M37/82 (Mertondale 3-4) and M37/233 (Mertondale 5 and Tonto), centered some 40km NNE of Leonora. The tenements are held in the name of Navigator Mining Pty Ltd, a wholly owned subsidiary of KIN. These tenements are managed, explored and maintained by KIN, and constitute a portion of KIN's Leonora Gold Project (LGP), which is located within the Shire of Leonora in the Mt Margaret Mineral Field of the North Eastern Goldfields of Western Australia.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate	The following royalty and compensation payments may be applicable to the areas within the Mertondale Project that comprise the deposits being reported on:
	in the area.	1. Aurora Gold (WA) Pty Ltd (subsidiary company of Harmony Gold Mining Company Ltd in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.25 production royalty per dry tonne of ore mined and processed.
		2. Aurora Gold (WA) Pty Ltd in respect of M37/81 and M37/82 - \$1.00 production royalty per dry tonne of ore mined and processed.
		3. Technomin Australia Pty Ltd in respect of M37/82, M37/231, M37/232 and M37/233 - \$0.75 production royalty per dry tonne of ore mined and milled, and
		4. Higherealm Pty Ltd (Mertondale Pastoral Leaseholder) in respect of M37/81, M37/82, M37/231, M37/232 and M37/233 - \$10,000 per annum, indexed to CPI, for the year(s) when extraction activities are being carried out.
		There are no known native title interests, historical sites, wilderness areas, national park or environmental impediments over the resource areas, and there are no current impediments to obtaining a licence to operate in the area.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Gold was initially discovered in the Mertondale area in 1899 by Mr. Fred Merton. The Mertons Reward (MR) underground gold mine (M37/1284) was the direct result of his discovery. The main mining phase at MR was carried out from 1899 to 1911. Historic underground production records to 1942 totalled 88,890t @ 21.0g/t Au (60,520oz) which represents the only recorded mining conducted at Mertons Reward.
		Between 1981-1984 Telluride Mining NL, Nickel Ore NL, International Nickel (Aust) Ltd and Petroleum Securities Mining Co Pty Ltd conducted exploration programs in the Mertondale area. Hunter Resources Ltd began actively exploring the region 1984-1989, Hunter submitted a Notice of Intent (NOI) to mine in 1986 and established a JV with Harbour Lights to treat ore from the Mertondale 2 (M37/1284) and Mertondale 3 pits (M37/82). Between 1986 and 1993 the adjoining Mertondale 4 pit (M37/82 and 81) was



Criteria	JORC Code explanation	Commentary
		mined. Harbour Lights acquired the project in 1989 from Hunter. Ashton Gold eventually gained control of Harbour Lights. Large scale mining in the region was completed in 1993 with the mining of the Mertondale 2 and Mertondale 3-4 pits (M37/81 and M37/82). In 1993 Ashton's interest was transferred to Aurora Gold who established a JV with MPI followed by Sons of Gwalia who entered into a JV with Aurora.
		Sons of Gwalia (SOG) eventually obtained control of the project in 1997 but conducted limited exploration drilling. In 2004 Navigator Mining Pty Ltd (Navigator) acquired the entire existing tenement holding from the SOG administrator. Navigator conducted the majority of recent exploration drilling in the Mertondale area. KIN acquired the project from Navigator's administrator in late 2014. Historic production from the Mertondale Mining Centre totals 274,724 oz of gold.
		KIN's drilling is focused in areas comprising historical drilling conducted by the above mentioned previous operators.
Geology	Deposit type, geological setting and style of mineralisation.	The Mertondale Project area is located 35-45km NNE of Leonora in the central part of the Norseman-Wiluna Greenstone Belt, which extends for some 600 km on a NNW trend across the Archean Yilgarn Craton of Western Australia.
		In broad terms the stratigraphy consists of a central felsic volcanic sequence bounded by tholeiitic basalt, dolerite, and carbonaceous shale ± felsic porphyry sequences.
		The four recognised deposits and all the known mineralisation is located within the north trending Mertondale Shear Zone (MSZ).
		Two distinct north trending mineralised zones are recognized within the MSZ. The western zone includes Quicksilver, Tonto, Eclipse and Mertondale 5, while the eastern zone includes the Merton's Reward, Mertondale 2 and Mertondale 3-4 deposits.
		Within the Mertondale Project area, most of the known mineralisation is hosted in sheared mafics, with local porphyry bodies and sediment units. Some of the sediment units are graphitic, notably in the western mineralised zone.
		Eastern Mineralised Zone
		In the Mertons Reward - Mertondale 2 area, two distinct types of high grade lodes were historically recognized:
		 Shear Lodes: Steeply dipping structures containing abundant quartz-carbonate veinlets accompanied by finely disseminated pyrite-arsenopyrite, and
		 Intershear Lodes: Narrow, flat to moderately dipping auriferous quartz veins up to about 40cm thick, enveloped in carbonate-altered zones up to +10m thick, which contain pyrite and arsenopyrite and lower grades of Au. These are usually truncated to the east and west by the steep dipping shear lodes.



Criteria	JORC Code explanation	Commentary
		Geological interpretation of Mertons Reward is largely based on historic mapping and mine plans of the historic workings, and thus there is a high level of confidence in the interpretation.
		At Mertondale 3-4 gold mineralisation is associated with the intrusive porphyry contact, where the contact can be used as a mineralisation guide or 'marker' horizon.
		Western Mineralised Zone
		The western mineralised zone typically comprises dark mafic mylonites, sedimentary units including carbonaceous shales, mafic intrusives and mafic-intermediate and felsic volcanics. Felsic porphyry intrusives occur irregularly within the shear zone. The black sulphide-rich mafic mylonite typically contains anomalous gold values up to 0.5 g/t Au in the resource areas.
		Lithologies at Tonto are black mafic mylonite, a black shale, shale, quartz-dolerite, basalt, basaltic andersite and felsic volcanics. The steeply dipping high grade lode at Tonto is more than likely structurally controlled and appears to potentially have a shallow southerly plunge. Visually the grade still remains very difficult to pick with no obvious association with sulphide content, quartz veining or alteration of either graphite or sericite.
		The footwall consists of the massive quartz dolerite. This dolerite has a noticeable bleached or carbonated halo along its immediate contact with the mylonite but grades into a strongly chloritic massive barren quartz dolerite.
		The Western mineralised zone at Mertondale 5 typically comprises dark mafic mylonites, sedimentary units including carbonaceous shales, mafic intrusives and mafic-intermediate and felsic volcanics. Felsic porphyry intrusives occur irregularly within the shear zone. The black sulphide-rich mafic mylonite typically contains anomalous gold values in the resource areas.
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:	Material drilling information for exploration results has previously been publicly reported in numerous announcements to the ASX by Navigator (2004-2014) and KIN since 2014.
	 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 	



Criteria	JORC Code explanation	Commentary
	the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	When exploration results have been reported for the resource areas, the intercepts are reported as weighted average grades over intercept lengths defined by geology or lower cut-off grades, without high grade cuts applied. Where aggregate intercepts incorporated short lengths of high grade results, these results were included in the reports. Since 2014, KIN have reported RC drilling intersections with low cut off grades of >= 0.5 g/t Au and a maximum of 2m of internal dilution at a grade of <0.5g/t Au. There is no reporting of metal equivalent values.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	The orientation, true width and geometry of the mineralised zones have been determined by interpretation of historical drilling and verified by KIN's drilling. The majority of drill holes are inclined at -60° towards 270° (west), which is regarded as the optimum orientation to intersect the target mineralisation. Since the mineralisation is steeply dipping, drill intercepts are reported as downhole widths, and not true widths. Accompanying dialogue to reported intersections normally describes the attitude of the mineralisation.
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.	Appropriate maps and sections are included in the main body of this report.



Criteria	JORC Code explanation	Commentary
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.	Public reporting of exploration results by KIN and past tenement holders and explorers for the resource areas are considered balanced. Representative widths typically included a combination of both low and high grade assay results. All meaningful and material information relating to this mineral resource estimate is or has been previously 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 substances.	Since 2018, a campaign of determining Bulk Densities has been undertaken. The water displacement method is used on drill samples selected by the logging geologist. These measurements are entered into the logging software interface and loaded to the Datashed database.
Further work	The nature and scale of planned further work (eg 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.	KIN intend to continue exploration and drilling activities at in the described area, with the intention to increase the project's resources.



Fiona Rangoon

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity	Measures taken to ensure that data has not been corrupted by, for	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	example, transcription or keying errors, between its initial collection and its use for Mineral Resource	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological field)
	estimation purposes.Data validation procedures used.	 Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		• Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 Mr. Jamie Logan conducted a formal site visit during July 2018, and Feb 2019, where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification.
	 Nature of the data used and of any assumptions made 	Lithological, structural, alteration and grade information were used to determine this interpretation.
	The effect, if any, of alternative interpretations on Mineral Resource estimation.	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls.
	The use of geology in guiding and	The interpretation is directly based on geological observations, particular the presence



Criteria	JORC Code explanation	Commentary
	controlling Mineral Resource estimation.	of structural features and fabrics. Domains represent mineralised fault horizons/zones. All boundaries are hard, except two of the larger lodes at Rangoon which have subdomains, and where soft boundarys are used.
	The factors affecting continuity both of grade and geology.	Continuity is structurally controlled with a stratigraphic component also present. Mineralising fluid flowed through the system, concordantly along stratigraphy and discordantly to stratigraphy along extensive local structures.
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 Fiona Rangoon Mineral Resource estimate covers part of the Helens-Rangoon system. It strikes for approximately 6km, to a depth of 70m, with an average thickness of 2.5m. The Mineral Resource estimate extends from surface to a maximum depth of 120m below surface.
Estimation and modelling	The nature and appropriateness of the	Only Diamond and RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment	Sectional strings and wireframes constructed in Datamine EM and validated. All other work takes place in Datamine RM.
	of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer	Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained
	assisted estimation method was chosen include a description of computer software and parameters	Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. Caps range from 2.5g/t to 15g/t.
	used.	Variography undertaken on lodes with sufficient samples.
		Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.
		Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		Search distances and directions aligned with maximum variogram ranges and rotations.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous estimate, to understand changes.
	The assumptions made regarding	No assumptions were made regarding recovery of by-products
	recovery of by-products.	No potential by products noted in drill logs.
	Estimation of deleterious elements or	No estimates of deleterious elements or other non-grade variables were done.



Criteria	JORC Code explanation	Commentary		
	other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	No deleterious elements noted in drill logs.		
	In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	 Nominal Drill spacing of 10m x15m in well informed areas led to parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.2mE x 1mN x 1mRL for effective filling of domain wireframes. Search distances and directions aligned with maximum variogram ranges and rotations. 		
	 Any assumptions behind modelling of selective mining units. 	No assumptions were made on selective mining units.		
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.		
	 Description of how the geological interpretation was used to control the resource estimates. 	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by lode wireframes		
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reconciliation data available. 		
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnages estimated on a dry basis only.		
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.		
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	 No mining method assumptions were made for the estimation of this model. Assumptions were made for the pit optimisation used to constrain the Mineral Resource for reporting. 		



Criteria	JORC Code explanation	Со	mmentary				
	prospects for eventual economic					Unit	2020 Resources
	extraction to consider potential mining		4-0000000000000000000000000000000000000	Gold Price		\$/t ore	\$2,000
	methods, but the assumptions made		Revenue Assumptions	Revenue		\$/g	\$64.30
	regarding mining methods and			Mining Dilution		%	5% to 10%
	parameters when estimating Mineral		Mining Cost Assumptions	Mining Recovery		%	95% to 100%
				Mining Cost		\$/bcm	Calculated
	Resources may not always be			Recovery	Oxide	%	92.5%
	rigorous. Where this is the case, this			100	Trans		92.0%
	should be reported with an				Fresh		90.0%
	explanation of the basis of the mining		Processing Recovery and Cost Assumptions	Processing Cost	Oxide	\$/t ore	\$11.27
	assumptions made.				Trans		\$16.17
					Fresh	laster l	\$20.15
				G & A Cost		\$/t ore	\$3.95
			and Market and an		Oxide	deg	47.7
			Geotechnical Assumptions		Transitional	deg	58.5
					Fresh	deg	58.5
Metallurgical factors or	The basis for assumptions or	• No	Metallurgical assumptions were	made for the	estimation of	this me	odel.
assumptions	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.	tra est	noted in the table above, recovensitional were used for the optimimate.	isation which c	constrains the	e Miner	ral Resource
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 	• No	environmental assumptions have	e been made f	or the estima	ation of	this model.



Criteria	JORC Code explanation	Commentary
	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 assumptions made.	
Bulk density	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.	 During 2018 a campaign of determining Bulk Densities was undertaken at Helens and a set of density values derived. As the Helens deposit lies on the same statigraphy, and is effected by the same controls as Fiona Rangoon, it was deemed appropriote to use these values. Water displacement method was used on samples selected by the logging geologist. These measurements are input to the logging software interface and loaded to the Datashed database. The mean of these measurements are then assigned to a weathering profile (Oxide, Transition, Fresh rock).
		Fiona Rangoon 2020 Oxide 2.34 Transitional 2.66 Fresh 2.9
	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.	Previous work considered void spaces and were sealed prior to the wet measurement. For the more recent work, all measurements have been on fresh rock, where vugs and voids are absent.
	 Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	Density has been assigned to differing material: Oxide, Transitional and Fresh.



Criteria	JORC Code explanation Co	ommentary
Classification	Mineral Resources into varying es	assification is based on a combination of drillspacing, geological confidence and stimation quality. The classification is applied to the model on a lode by lode basis. rillspacing listed below are indicative only. Indicated: 15m x 15m x 15m drillspacing. Inferred: up to 30m x30m x 40m drillspacing.
		assification discussed with interpreting Geologists to ensure classification represents cological confidence as well as statistical confidence.
	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.	I relevant factors effecting classification have been considered.
		ne Mineral Resource estimate appropriately reflects the view of the Competent erson.
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	audits and reviews have completed on this Mineral Resource estimate.
Discussion of relative accuracy/ confidence		e Mineral Resource Estimate is validated both visually and statistically, and the curacy is reflected in the reporting as per the guidelines of the 2012 JORC code



Criteria	•	JORC Code explanation		Commentary
	•	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.	•	Global estimate for the Fiona Rangoon area
	•	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.	•	Production Data is not available



Hobby

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity	Measures taken to ensure that data has not been corrupted by, for	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	example, transcription or keying errors, between its initial collection and its use for Mineral Resource	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological field)
	estimation purposes.Data validation procedures used.	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	Mr. Jamie Logan conducted a formal site visit during July 2018, and Feb 2019, where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification.
	 Nature of the data used and of any assumptions made 	Lithological and grade information were used to determine this interpretation.
	 The effect, if any, of alternative interpretations on Mineral Resource estimation. 	Alternate interpretations have been considered, however the current interpretation is considered robust for the data supporting it, and conforms to the observed controls.
	 The use of geology in guiding and controlling Mineral Resource estimation. 	The interpretation is directly based on grade observations, along and within lithological control. No Structural dat yet avaible, however interpretation consistent with regional model. Domains represent mineralised fault horizons/zones. All boundaries are hard.



Criteria	JORC Code explanation	Commentary
	The factors affecting continuity both of grade and geology.	Continuity is stratigraphicly controlled. It is assumed that mineralisation will also show a structural control as seen at Fiona Rangoon. Mineralising fluid flowed through the system, concordantly along stratigraphy and discordantly to stratigraphy along extensive local structures.
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 Hobby Mineral Resource estimate covers the far northern part of the Helens-Rangoon system. It strikes for approximately 700m, to a depth of 130m, with an average thickness of 10m. The Mineral Resource estimate extends from surface to a maximum depth of 165m below surface.
Estimation and modelling	The nature and appropriateness of the	Only RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment	 Sectional strings and wireframes constructed in Datamine EM and validated. All other work takes place in Datamine RM.
	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	Drillholes composited to 1m, which is based on the majority of samples being 1m or below. All lengths retained
		 Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. Only two lodes capped at 3g/t and 10g/t.
		Insufficient samples for individual Variography, therefore 'group' variogram created.
	used.	Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		Search distances and directions aligned with maximum variogram ranges and rotations.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous internal estimate, to understand changes.
	 The assumptions made regarding recovery of by-products. 	 No assumptions were made regarding recovery of by-products No potential by products noted in drill logs.
	 Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation). 	No estimates of deleterious elements or other non-grade variables were done.
	In the case of block model interpolation, the block size in relation	 Nominal Drill spacing of 20m x40m in well informed areas. Parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.2mE x



Criteria	JORC Code explanation	Commentary
	 to the average sample spacing and the search employed. Any assumptions behind modelling of selective mining units. 	 1mN x 1mRL for effective filling of domain wireframes. Search distances and directions aligned with maximum variogram ranges and rotations. No assumptions were made on selective mining units.
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.
	 Description of how the geological interpretation was used to control the resource estimates. 	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by lode wireframes
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reconciliation data available.
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnages estimated on a dry basis only.
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.
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	Assumptions were made for the pit optimisation used to constrain the Mineral Resource for reporting.



Criteria	JORC Code explanation	Comn	nentary				
	Resources may not always be					Unit	2020 Resources
	rigorous. Where this is the case, this		Revenue Assumptions	Gold Price		\$/t ore	\$2,000
	should be reported with an		Revenue Assumptions	Revenue	1	\$/g	\$64.30
	explanation of the basis of the mining		2 (April 1981) - 1980 (April 1981) - 1981 (April 1981)	Mining Dilution		%	5% to 10%
	·		Mining Cost Assumptions	Mining Recovery		%	95% to 100%
	assumptions made.			Mining Cost		\$/bcm	Calculated
				Recovery	Oxide	%	92.5%
					Trans Fresh		92.0% 90.0%
			Processing Recovery and Cost Assumptions	Processing Cost	Oxide	\$/t ore	
			Processing Necovery and Cost Assumptions	Processing Cost	Trans	3/1016	\$16.17
					Fresh		\$20.15
				G & A Cost		\$/t ore	\$3.95
					Oxide	deg	47.7
			Geotechnical Assumptions		Transitional	deg	58.5
				,	Fresh	deg	58.5
	The basis for assumptions or	No Me	tallurgical assumptions were	made for the	estimation	of this	s model
Metallurgical factors or	predictions regarding metallurgical		ed in the table above, recover				
assumptions	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.	transiti estima	onal were used for the optimite.	sation which	constrains	the M	ineral Resource
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, 	No env	vironmental assumptions have	e been made	for the esti	matio	n of this model.



Criteria	JORC Code explanation	Commentary
	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 assumptions made.	
Bulk density	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.	 During 2018 a campaign of determining Bulk Densities was undertaken at Helens and a set of density values derived. As the Helens deposit lies on the same statigraphy, and is effected by the same controls as Fiona - Rangoon - Hobby, it was deemed appropriate to use these values. The mean of these measurements are then assigned to a weathering profile (Oxide, Transition, Fresh rock).
		Oxide 2.34 Transitional 2.66 Fresh 2.9
	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.	Previous work considered void spaces and were sealed prior to the wet measurement. For the more recent work, all measurements have been on fresh rock, where vugs and voids are absent.
	 Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying confidence categories.	 Initial Resource: Only blocks enclosed by drilling classified: inferred at best. Classification is based on a combination of drillspacing, geological confidence and estimation quality. The classification is applied to the model on a lode by lode basis. Drillspacing listed below are indicative only.



Criteria	JORC Code explanation	Commentary
		 Inferred: up to 20m x 40m drillspacing. Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.
	• 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.	All relevant factors effecting classification have been considered.
	 Whether the result appropriately reflects the Competent Person's view of the deposit. 	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. 	No audits and reviews have completed on this Mineral Resource 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 	 The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code Global estimate for the Hobby area
	tonnages, which should be relevant to technical and economic evaluation.	



Criteria	JORC Code explanation	Commentary
	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. 	Production Data is not available



Mertondale West

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity	Measures taken to ensure that data has not been corrupted by, for	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	example, transcription or keying errors, between its initial collection and its use for Mineral Resource	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological fields)
	estimation purposes.Data validation procedures used.	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		• Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	Mr. Jamie Logan conducted a formal site visit during July 2018 and then again in February of 2019, where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification. Exploration, and mining, in this area has been ongoing for over a century, so confidence in the geology is high.
	 Nature of the data used and of any assumptions made 	Lithological, structural, and grade information were used to determine this interpretation.
	 The effect, if any, of alternative interpretations on Mineral Resource estimation. 	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls. A change from the previous interpretation shows a simplification, but the overall interpretation is consistent.
	The use of geology in guiding and controlling Mineral Resource	The interpretation is directly based on the presence or absence of mineralisation. Geological, and structural observations are also used the guide the interpretation.



Criteria	JORC Code explanation	Commentary
	 estimation. The factors affecting continuity both of grade and geology. 	which are in turn constrained along the western edge of the large north-south trending Mertondale shear.
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 Mertondale West MRE includes the Quicksilver, Tonto and Eclipse deposits. It strikes for approximately 5,200m, to a depth of 200m. Mineralised zones generally have a thickness of 40m, but this increases to 80m in the Eclipse area as mineralisation becomes discontinuous. The Mineral Resource estimate extends from surface to a maximum depth of 270m below surface.
Estimation and modelling techniques	 The nature and appropriateness of the estimation technique(s) applied and 	Only Diamond and RC drilling included for Quicksilver, while AC data included at Eclipse.
teciniques	key assumptions, including treatment	All modelling work done in Datamine EM and RM.
	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.	 Geological surfaces modelled from logging observations (shear boundaries and shale horizon). Structural surfaces (faults) inferred from IP raster's and projected into 3D. Both geological and structural surfaces created using points and strings. These are then used to create wireframe surfaces.
		 Mineralised volumes created using a Categorical indicator approach. 0.4g/t indicator value selected. Dynamic Anisotropy (DA) used to include orientations of geological and structural surfaces. Threshold of 0.45 selected. Two passes run at differing cell size (5mx5mx5m and 2.5mx2.5mx2.5m) and joined for more coherent /realistic shapes. Volumes 'cleaned' manually.
		 Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained.
		 Mineralised domains assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material, with the number of samples capped in the 1% to 2% range. A cap of 9g/t was selected for all three deposits. This effects 1.03%, 1.52% and 0.68% of samples for Eclipse, Tonto and Quicksilver respectively, all of which are in the 98-99 percentile.
		Variography undertaken.
		 Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.
		Block model created with parent cells of 5mE x 5mN x 5mRL. Coded with weathering, geological and structural surfaces, as well as mineralised zones.



Criteria	JORC Code explanation	Commentary
		 Dynamic Anisotropy (DA) estimate run, incorporating structural, geological and mineralisation orientations. Estimated using Ordinary Kriging, with DA search. Search distances and directions aligned with maximum variogram ranges and rotations, but effected by DA.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous estimate, to understand changes.
	 The assumptions made regarding recovery of by-products. 	 No assumptions were made regarding recovery of by-products No potential by products noted in drill logs.
	Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	 No estimates of deleterious elements or other non-grade variables were done. No deleterious elements noted in drill logs.
	In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	Nominal Drill spacing of 15m x15m in well informed areas led to parent cells of 5mE x 5mN x 5mRL used. These then allowed to subcell to 0.5mE x 1mN x 1mRL for effective filling of domain wireframes.
	ule Search employed.	 Search distances and directions aligned with maximum variogram ranges and rotations, but effected by DA.
	 Any assumptions behind modelling of selective mining units. 	No assumptions were made on selective mining units.
	 Any assumptions about correlation between variables. 	No assumptions were made on the correlation between variables.
	 Description of how the geological interpretation was used to control the resource estimates. 	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by wireframes.
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space.



Criteria	JORC Code explanation	Commentary			
		 Review of Change of Support plots against idealised scenario. No reliable reconciliation data available. 			
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnages estimated on a dry basis only.			
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.			
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	No mining method assumptions were made for the estimation of this model. Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting. Unit 2020 Update			
	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	Gold Price \$/t ore \$2,000 Refining Cost \$/t ore Revenue Assumptions State Royalties % 2.5% Other Royalties % Revenue \$/g \$64.30 Mining Dilution % 5.0%			
		Resources may not always be	Resources may not always be	Mining Dilution % 5.0% Mining Cost Assumptions Mining Recovery % 95.0% Mining Cost \$/bcm Calculated	
	rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	Recovery Oxide % 92.5%			
		Oxide deg 45.7 Transitional deg 49.1 Fresh deg 56.4			
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	 No Metallurgical assumptions were made for the estimation of this model. As noted in the table above, processing recoveries, ranging from 90% in fresh material to 92.5% in the oxide material, were used for the optimisation which constrains the Mineral Resource estimate. Previous optimisations for the Tonto deposit have used a processing recovery of 50% in 			



Criteria	JORC Code explanation	Commentary
	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.	the Fresh material. 50% value was based on one sample, and is not calculated, but an assumption due to the presence of sulphides. It is the opinion of the competent person that more information/work is required, and using a 90.2% value still supports the concept of eventual economic extraction.
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 assumptions made.	No environmental assumptions have been made for the estimation of this model.
Bulk density	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.	 During 2017 extensive work was carried out looking at densities. Water displacement method was used. Densities assigned to a weathering profile (Oxide, Transition, Fresh rock). MW_1912 Oxide 1.9 Trans 2.3 Fresh 2.7



Criteria	JORC Code explanation	Commentary
	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.	Previous work considered void spaces and were sealed prior to the wet measurement.
	Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.	Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying	Classification is based on a combination of drillspacing, geological confidence and estimation quality. Areas are reviewed and drillspacing used as a guide.
	confidence categories.	Indicated: 25m x 25m drillspacing.
		 Inferred: up to 40m x 40m drillspacing.
	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.	All relevant factors effecting classification have been considered.
	Whether the result appropriately reflects the Competent Person's view of the deposit.	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.	No audits and reviews have completed on this Mineral Resource 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	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code



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.	Global estimate for the Mertondale West area
	 These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	Production Data is not available



Mertondale 5

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity	Measures taken to ensure that data has not been corrupted by, for	Data is collected in the field on propriety software, which contains inbuilt validation steps. (example overlapping intervals, data duplication).
	example, transcription or keying errors, between its initial collection and its use for Mineral Resource	Data is then uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological fields)
	estimation purposes.Data validation procedures used.	Returned assay results are loaded electronically in CSV format into Datashed, by either the DBA, or Senior Geologists. This includes a review of QC results.
		• Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	Mr. Jamie Logan conducted a formal site visit during July 2018 and then again in February of 2019, where all steps within the sample collection process were reviewed. Drilling, sample handling, logging and sampling, QAQC and dispatch procedures were validated.
		No data quality issues were noted.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification. Exploration, and mining, in this area has been ongoing for over a century, so confidence in the geology is high.
	 Nature of the data used and of any assumptions made 	Lithological, structural, and grade information were used to determine this interpretation.
	 The effect, if any, of alternative interpretations on Mineral Resource estimation. 	Alternate interpretations have been considered, however the current interpretation is considered robust, and conforms to the observed controls. A change from the previous interpretation shows a simplification, but the overall interpretation is consistent.
	The use of geology in guiding and controlling Mineral Resource	The interpretation is directly based on the presence or absence of mineralisation constrained within/and by geological, and structural controls.



Criteria	JORC Code explanation	Commentary
	 estimation. The factors affecting continuity both of grade and geology. 	Continuity is largely constrained along large-scale structures (shears/faults/contacts), which are in turn constrained along the western edge of the large north-south trending Mertondale shear.
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 Mertondale 5 deposit strikes for approximately 1,000m, to a depth of 240m. The mineralised zone has a general thickness of 15m. The Mineral Resource estimate extends from surface to a maximum depth of 250m below surface.
Estimation and modelling	The nature and appropriateness of the	Only Diamond and RC drilling included.
techniques	estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining,	Lodes assigned in Datamine RM and wireframes constructed in Leapfrog Geo. These wireframes re-imported to Datamine RM, and validated. All other work takes place in Datamine RM
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.	maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of	Geological surfaces modelled from logging observations (shear boundaries and shale horizon). Structural surfaces (faults) inferred from lode offsets, surface maps, geophysical images and aerial photographs and projected into 3D. Structural surfaces created using strings, while geological and weathering surfaces created using 'implicit' methods. These are then used to create wireframe surfaces.
		Mineralised volumes created using a Categorical indicator approach in Datamine RM. A 'low grade' indicator value at 0.3g/t and a 'high grade' indicator value at 5g/t were selected and run. 0.3 threshold selected for both, and volumes created. These volumes 'cleaned up' manually and used to code dataset. This coded dataset then transferred to Leapfrog geo where volumes recreated, but with faults added. These volumes checked and reimported the Datamine RM.
		Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained.
		Mineralised domains assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. Cap of 5g/t selected for low grade domain, while 25g/t selected for High grade domain.
		Variography undertaken.
		Kriging neighborhood analysis (KNA) reviewed in order to determine optimal block sizes and estimation parameters.



Criteria	JORC Code explanation	Commentary
		Block model created with parent cells of 5mE x 10mN x 10mRL. Coded with mineralised zones, weathering surfaces and geological units.
		Estimated using Ordinary Kriging.
		Search distances and directions aligned with maximum variogram ranges and rotations.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous estimate, to understand changes.
•		No assumptions were made regarding recovery of by-products
	recovery of by-products.	No potential by products noted in drill logs.
•		No estimates of deleterious elements or other non-grade variables were done.
	other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).	No deleterious elements noted in drill logs.
	interpolation, the block size in relation to the average sample spacing and	Nominal Drill spacing of 15m x20m in well informed areas led to parent cells of 5mE x 10mN x 10mRL used. These then allowed to subcell to 0.25mE x 1mN x 1mRL for effective filling of domain wireframes.
	the search employed.	Search distances and directions aligned with maximum variogram ranges and rotations.
	Any assumptions behind modelling of selective mining units.	No assumptions were made on selective mining units.
•	Any assumptions about correlation between variables.	No assumptions were made on the correlation between variables.
	Description of how the geological interpretation was used to control the resource estimates.	Lodes are modeled to represent material mineralised by fluid flow through planar structural features. Estimates constrained by wireframes.
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reliable reconciliation data available.



Criteria	JORC Code explanation		Commentary	
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	•	Tonnages estimated on a dry basis only.	
Cut-off parameters	 The basis of the adopted cut-off grade(s) or quality parameters applied. 	•	on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.	
Mining factors or assumptions	Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It	•	No mining method assumptions were made for the estimation of this model. Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting.	
	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.	,	Gold Price \$/t ore \$2,000 Refining Cost \$/t ore Revenue Assumptions State Royalties % 2.5% Other Royalties % Revenue \$/g \$64.30	
		regarding mining methods and parameters when estimating Mineral		Mining Dilution % 5.0% Mining Cost Assumptions Mining Recovery % 95.0% Mining Cost \$/bcm Calculated
			Recovery	
			Oxide deg 42 Transitional deg 50 Fresh deg 54.5	
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	•		



Criteria	JORC Code explanation	Commentary
	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.	
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 assumptions made.	No environmental assumptions have been made for the estimation of this model.
Bulk density	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 meterial.	During 2017 extensive work was carried out looking at densities. Water displacement method was used. Densities assigned to a weathering profile (Oxide, Transition, Fresh rock). 2020 Oxide
	 The bulk density for bulk material must have been measured by 	Previous work considered void spaces and were sealed prior to the wet measurement.



Criteria	JORC Code explanation	Commentary
	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. 	Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying confidence categories.	 Classification is based on a combination of drillspacing, geological confidence and estimation quality. Areas are reviewed and drillspacing used as a guide. Indicated: 20m x 20m drillspacing. Inferred: up to 40m x 40m drillspacing.
	 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. 	All relevant factors effecting classification have been considered.
	Whether the result appropriately reflects the Competent Person's view of the deposit.	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.	No audits and reviews have completed on this Mineral Resource 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	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code



Criteria	JORC Code explanation	Commentary
	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.	Global estimate for the Mertondale West area
	 These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	Production Data is not available



Raeside

Section 3 Estimation and Reporting of Mineral Resources

Criteria	JORC Code explanation	Commentary
Database integrity	Measures taken to ensure that data has not been corrupted by, for example,	Data for these models are largely historic, drilled between 1989 and 2006, with the majority been drilled between 1990 and 1997.
	transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.	This data has been uploaded into Maxwells Datashed application by the Database Administrator (DBA). This application includes quality protocols which must be met in order for uploading to occur (examples: data duplication, validation of geological
	Data validation procedures used.	field)
		Considerable effort has been made to audit data, going back through previous models, report and original log/assay sheets.
		Finally, the data is reviewed upon upload to Datamine Studio RM before final use. (Examples: DHsurveys present, overlapping intervals, 'From' and 'To's concurrent).
		Historic data does not contain sufficient metadata for thorough validation protocols, however compares well with recent QAQC controlled data.
Site visits	Comment on any site visits undertaken by the Competent Person and the	KIN's geological team have an onsite presence which includes supervision and management of drill programs within each of the Resource areas.
	 outcome of those visits. If no site visits have been undertaken 	Mr. Jamie Logan conducted a formal site visit during July of 2018 and again in February of 2019, including a visit to Raeside and the Forgotten Four pit.
	indicate why this is the case.	residary or 2019, including a visit to reaeside and the rongotterm our pit.
Geological interpretation	Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	Confidence in the interpretation is directly reflected in the classification. Overall interpretations have not changed over time and are considered robust.
	 Nature of the data used and of any assumptions made 	Lithological, structural, alteration and grade information were used to determine this interpretation.
	The effect, if any, of alternative interpretations on Mineral Resource estimation.	Alternate interpretations (including the previous interpretations) have been considered, and have not changed conceptually for this update. The current Interpretation is considered robust, and conforms to the current thinking, and observed controls.
	The use of geology in guiding and controlling Mineral Resource estimation.	The interpretation is directly based on the presence of, or absence of mineralisation. These deposits are fortunate in that this distinction is clear.
		Geological observations, particular the presence of lithologies (contacts) and



Criteria	JORC Code explanation	Commentary
		structural features (faults), support this interpretation.
	 The factors affecting continuity both of grade and geology. 	Continuity is structurally and/or stratigraphically controlled.
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 Raeside Mineral Resource estimate (MRE) strikes for approximately 2,200m towards to North-east, to a depth of 200m, with an average width of 120m. The Mineral Resource estimate extends from surface to a maximum depth of 240m below surface.
Estimation and modelling	The nature and appropriateness of the	Only Diamond and RC drilling included in Estimate.
techniques	estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining,	Lodes assigned and wireframes created in Datamine RM. Weathering surfaces constructed in Leapfrog Geo. These wireframes re-imported to Datamine RM, and validated. All other work takes place in Datamine RM.
	interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description	Drillholes composited to 1m, which is based on the majority of samples being 1m or below. Comparison of Diamond and RC lengths conducted to support this decision. All lengths retained.
	of computer software and parameters used.	Individual lodes assessed for capping, using multiple methods including reviewing population gaps and Coefficient of Variation (CV). Capping effect is not believed to be material. Caps range between 2g/t to 25g/t.
		No sub-domaining undertaken, however searches kept as small as practical to mitigate any potential conditional bias.
		Variography undertaken on lodes with sufficient samples.
		Kriging neighborhood analysis (KNA) reviewed in order to determine guidance on optimal block sizes and estimation parameters.
		Parent cells of 5m x 5m x 5m estimated using Ordinary Kriging.
		Search distances set to 80% of variogram ranges for the first 'pass' and doubled for subsequent 'passes'.
		Search directions generally aligned with variogram rotations, however Dynamic Anistropy also used for local search directions.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	The estimate was compared to the previous estimates, to understand changes.
	The assumptions made regarding	No assumptions were made regarding recovery of by-products



Criteria	JORC Code explanation	Commentary
	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 relation to the average sample spacing and the search employed. Any assumptions behind modelling of selective mining units.	 No potential by products noted in drill logs. No estimates of deleterious elements or other non-grade variables were done. Some sulphide rich shales noted at Leonardo and Forgotten Four. No other deleterious elements noted in drill logs. Drill spacing varies from 10m x 10m, to 20m x 20m. A nominal drill spacing of 15m x15m was deemed most approrpriote when assesing the entire project. This led to parent cells of 5mE x 5mN x 5mRL used. Search distances and directions generally aligned with maximum variogram ranges and rotations. No assumptions were made on selective mining units.
	 Any assumptions about correlation between variables. Description of how the geological interpretation was used to control the resource estimates. 	 No assumptions were made on the correlation between variables. Lodes are modeled to represent material mineralised by fluid flow through planar structural and/or straigraphic features. Estimates constrained by lode wireframes
	The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.	 Model validation is a combined review including: Visual review of blocks values vs composite values, by section and plan. Visual review of Kriging efficiencies and Slope of regression outputs. Review of global block means by domain vs declustered cut composite means. Swath plots showing block means vs composite means in space. Review of Change of Support plots against idealised scenario. No reliable reconciliation data available.
Moisture	Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	Tonnages estimated on a dry basis only.
Cut-off parameters	The basis of the adopted cut-off grade(s) or quality parameters applied.	Cut-off grade (0.5g/t) determined by KIN's engineering consultants for 2017 DFS based on operating costs. This was reviewed for this Mineral resource estimate and deemed reasonable.



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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.	No mining method assumptions were made for the estimation of this model. Assumption were made for the pit optimisation used to constrain the Mineral Resource for reporting. Unit 2020 Optimisation
		Gold Price \$/t ore \$2,000
		Revenue \$/g \$64.30
		Recovery Oxide % 92.5%
		Geotechnical Assumptions Oxide deg 49.1 Transitional deg 54.5 Fresh deg 58.3
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.	 Metallurgical assumptions in line with PFS level testwork at other Raeside deposits were made for the estimation of this model. A range of recoveries were used for the optimisation to constrain the MRE, depending on material type. (See table above). Graphitic shale was encountered in Forgotten Four mining, and has been noted in logging at Leonardo.



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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 assumptions made.	 No environmental assumptions have been made for the estimation of this model. Hyper-saline ground water is present in this area. Rockwater estimated a dewatering requirement of 30 l/sec in an economic evaluation of the project undertaken in 2013.
Bulk density	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	 During 2017 some work was done assessing the bulk density values used at Michelangelo – Leonardo, including drilling 4 new diamond drillholes. The work indicated the same values as seen in previous iterations. With the addition of no new information it was deemed appropriate to maintain these values. These values are then assigned to a weathering profile (Oxide, Transition, Fresh rock). 2020 Resources Oxide 2 Trans 2.3 Fresh 2.65 Bulk Density work considered void spaces and were sealed prior to the wet
	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.	measurement.



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	Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.	Density has been assigned to differing material: Oxide, Transitional and Fresh.
Classification	The basis for the classification of the Mineral Resources into varying confidence categories.	Classification is based on a combination of drillspacing, geological confidence and estimation quality. Kriging Efficiency relatively low due to small searches and low sample minimums and maximums. The classification is applied to the model on a lode by lode basis.
		 Measured: No material classified as Measured due to dominance of historic data used in the estimate.
		 Indicated: 20m x 20m x 20m drillspacing with > 15% Kriging Efficiency.
		 Inferred: up to 40m x40m x 40m drillspacing with Positive kriging efficiency.
		Classification discussed with interpreting Geologists to ensure classification represents geological confidence as well as statistical confidence.
	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.	All relevant factors effecting classification have been considered.
	Whether the result appropriately reflects the Competent Person's view of the deposit.	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.	No audits and reviews have completed on this Mineral Resource 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	The Mineral Resource Estimate is validated both visually and statistically, and the accuracy is reflected in the reporting as per the guidelines of the 2012 JORC code



Criteria	JORC Code explanation	Commentary
	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.	Global estimate for the Raeside area
	 These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	Production Data is not available