

ASX ANNOUNCEMENT

16 December 2020

Winchester South Coal Resources and Reserves

Whitehaven Coal Ltd (ASX: WHC) (Whitehaven) is pleased to release its maiden Reserves Statement for the Winchester South Project metallurgical coal mine (the Project) and announce an associated update to its Coal Resources in accordance with the JORC Code (2012).

The Project JORC Resource is upgraded to 1,100Mt from 530Mt and includes 665Mt of Measured and Indicated Resources which has resulted in Whitehaven Coal Limited Coal Total Resources increasing by 12% since August 2020. The release today of the maiden JORC Reserves of 350Mt has increased the Total Whitehaven Coal Limited Coal Reserves by 26% since August 2020.

Whitehaven Coal Managing Director and CEO Paul Flynn said that the declaration of Resources and Reserves for Winchester South in accordance with the JORC Code (2012) was an important milestone for the Project which provided further confidence around resource definition and the various options to ensure the company maximises returns to shareholders from the Project.

Winchester South is located approximately 30km southwest of Moranbah within the Northern Bowen Basin in Central Queensland (Figure 1) and is 100% owned by Whitehaven Coal. It will be a majority metallurgical coal mine producing a blend of coking and thermal coal for export to established and emerging markets in Asia where demand for these products to fuel industrial activity and economic growth is increasing.

The Project is surrounded by active coal mining and exploration areas including the Peak Downs Mine to the southwest, Eagle Downs Mine to the west, Poitrel and Daunia Mines to the north and the Olive Downs South Project to the southeast. The Norwich Park branch railway line crosses the northern part of the project and directly connects to multiple coal export terminals.

The Project continues to progress through the Queensland Government's Coordinated Project approval process with the draft Environmental Impact Statement (EIS) having been submitted to Queensland's Office of Coordinator General for adequacy review ahead of Public Notification.

Project Resources Estimate Summary by Seams

SEAM	RESOURCE CATEGORY (Mt)								
U	Measured	Indicated	Inferred	Total					
Leichhardt 1 (L1)	27	20	23	70					
Leichhardt 2A (L2A)	83	29	24	135					
Leichhardt 2BC (L2BC)	0	21	0	20					
Vermont Upper (VA3/VU)	54	86	35	175					
Vermont Middle Lower (VML)	11	334	101	445					
Subtotal Rangal and Fort Cooper Seams	175	490	180	845					
Goonyella Middle (GM) 1			127	130					
Goonyella Middle (GM) 2			126	125					
Subtotal Moranbah Seams			255	255					
TOTAL	175	490	435	1,100					

Note - Some rounding has occurred and this may reflect in minor differences in the overall reported resource.

Project Open Cut Coal Reserves and Marketable Coal Reserves (as of 30 November 2020)

	PROVED (Mt)	PROBABLE (Mt)	TOTAL (Mt)
Coal Reserves	140	210	350
Marketable Reserves	100	110	210

Estimates are not precise calculations and have been rounded to reflect the order of accuracy.

Coal Reserves are at 5.5% (as received) total moisture (ROM) and Marketable Reserves at 9% (as received) total moisture.

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Highlights

- Over 200 new drill holes have been added since acquisition specifically targeting additional metallurgical coal definition
- Maiden 350 Mt Coal Reserves reported, inclusive of 210 Mt of Marketable Reserves
- 20+ year mine life, up to 15 Million tonnes per annum (Mtpa) ROM production and strip ratio of 5.2 bcm/tonne ROM
- Project capex of A\$980m, including biodiversity offsets and contingency (excludes fleet) reflecting the increase in annual maximum ROM coal production and processing of up to 15Mtpa, up from 10Mtpa
- Significant optionality in product strategy for the Project capable of producing semi-hard coking coal (CSR 55 and CSR 45), pulverised coal injection coal (PCI), and export thermal coal
- Project JORC Resources upgraded to 1,100 Mt (from 530 Mt)
- Project JORC Resources now includes 665 Mt of Measured and Indicated Resources
- Total Whitehaven Coal Limited Coal Resources increased by 12% since August 2020
- Total Whitehaven Coal Limited Coal Reserves increased by 26% since August 2020
- EIS submitted to Queensland Government

This Winchester South Coal Resources and Reserves statement is authorised for release to the market by the Board of Whitehaven Coal Limited.

About Whitehaven

Whitehaven Coal is proud to be the leading Australian producer of premium-quality coal. We are the dominant player in Australia's only emerging high-quality coal basin. We operate four mines (three open-cut and one large underground mine) in the Gunnedah Coal Basin of NSW. Our operating assets are complemented by two high-quality, near-term development assets, being Vickery, near Gunnedah, and Winchester South, in Queensland's Bowen Basin. We help power developed and emerging economies in Asia where there is strong and growing demand for our product, particularly for use in high-efficiency, low-emissions coal-fired power stations.

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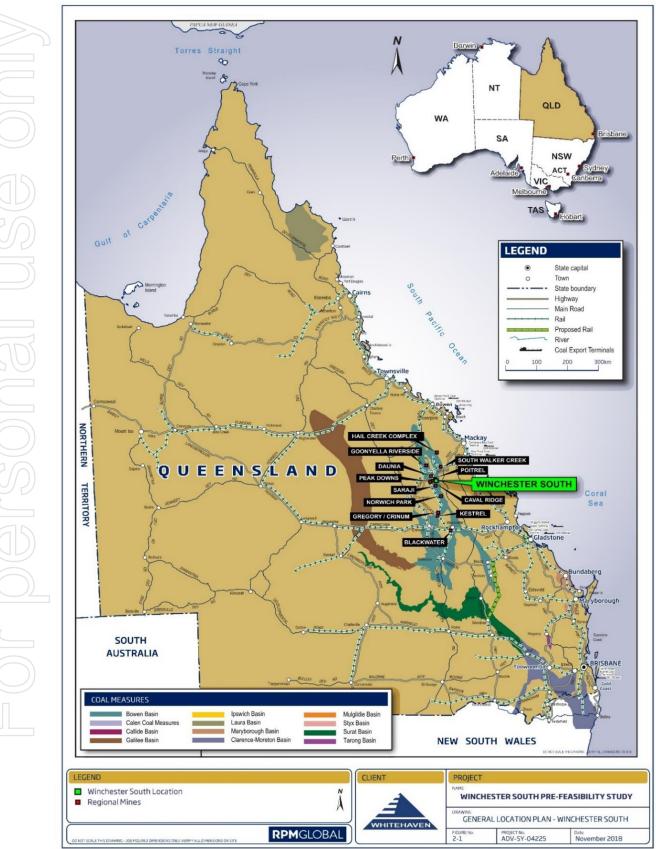


Figure 1: General Location Plan

JORC Declaration – Project Coal Resources

Whitehaven commissioned Xenith Consulting Pty Ltd ('Xenith') to update the previous Resources estimate for the Project, which was completed by Xenith in October 2018, in accordance with the JORC Code (2012).

The Coal Resources of the Project are found within the Rangal Coal Measures (Leichhardt and Vermont Upper seams), the Fort Cooper Coal Measures (Vermont Middle Lower seam - VML) and the Moranbah Coal Measures (Goonyella Middle seams).

In 2019 and 2020, Whitehaven carried out an extensive exploration program for the Rangal and Fort Cooper seams which included 50 cored holes for detailed pre-treatment, washability and product coal analysis as well as 163 structural holes. During this time over 1,000 historical holes were reinterpreted with all historical data now captured digitally. To define domains of similar confidence in the current JORC Resources estimate, an updated Drill Hole Spacing Analysis (DHSA) was carried out to determine the spacing between drill holes.

The Rangal and Fort Cooper coal seams (Figure 2) are shallow and are considered the primary open cut mining target. Their depth is predominantly less than 150 m. The Rangal and Fort Cooper seams (down to the VML seam) are well drilled and understood. The Moranbah seams are found at a minimum depth of ~400 m and are considered a potential underground mining target. The Moranbah seams have limited information and are at this stage considered a secondary mining target.

The Goonyella Middle seam resources exist in the western area of the Project. The previous tenure holder cored 13 holes for coal quality analysis and conducted a seismic survey for structural definition. The evaluation of these programs was incomplete at the time of the previous Resources estimate. This information has since been assessed, and the Goonyella Middle coal seams are now included in the Coal Resources estimate.

Project Coal Resources total 1,100 Mt, comprising 175 Mt in the Measured Category, 490 Mt in the Indicated Category and 435 Mt in the Inferred Category. There is a total of 845 Mt included in this resource estimate for the open cut seams, and 255 Mt for the underground seams (Table A).

Table A – Project Resources Estimate Summary by Seams

SEAM		RESOURCE C	ATEGORY (Mt)		
	Measured	Indicated	Inferred	Total	
Leichhardt 1 (L1)	27	20	23	70	
Leichhardt 2A (L2A)	83	29	24	135	
Leichhardt 2BC (L2BC)	0	21	0	20	
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Goonyella Middle (GM) 2			126	125	
Subtotal Moranbah Seams			255	255	
TOTAL	175	490	435	1,100	

Note - Some rounding has occurred and this may reflect in minor differences in the overall reported resource.

Competent Person's Statement

Information in this report that relates to Coal Resources is based on and accurately reflects reports prepared by the Competent Person named beside the respective information. Troy Turner is the Managing Director of Xenith Consulting Pty Ltd. The named Competent Person consents to the inclusion of material in the form and context in which it appears. The Competent Person named is a Member of the Australasian Institute of Mining and Metallurgy and has the relevant experience in relation to the mineralisation being reported on by him to qualify as Competent Persons as defined in the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code, 2012 Edition).

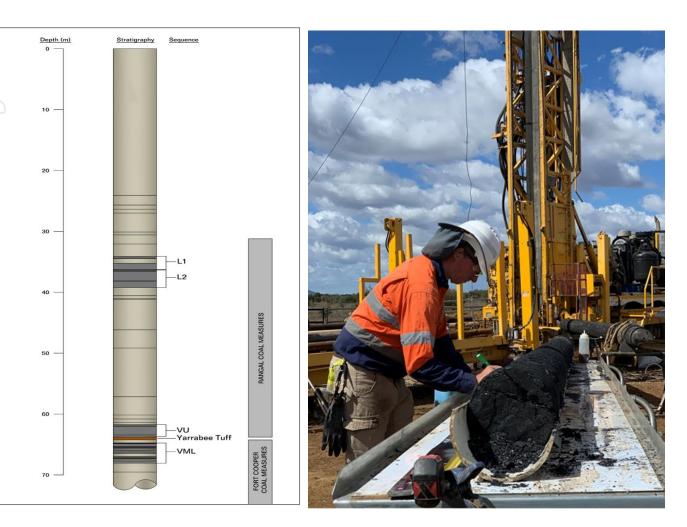


Figure 2: Typical stratigraphy column and photo of geologist sampling coal at Winchester South

JORC Declaration – Project Coal Reserves

RPM Advisory Services Pty Ltd (RPM) was commissioned by Whitehaven to complete an independent estimate (hereafter, referred to as the "Statement") of the Open Cut Coal Reserves for the Project.

Whitehaven completed an update of the Winchester South PFS in 2020 based on the same geological model as used for the 2020 Resources and Reserves estimates. The Reserves estimation process involved pit optimisation to confirm the pit shell, pit design and mine production scheduling. The pit shells are shown in Figure 3. The PFS mine production schedule resulted in a 31 year mine life targeting an average of 15 Mtpa of ROM coal. The Project coal is capable of producing a range of coal products including PCI and SHCC which are used in the manufacture of steel, as well as export thermal coal. Coal price, exchange rate assumptions and marketing categories for coking products are based on CRU forecasts as at November 2020 with discounts applied.

The Measured and Indicated Resources confidence limits were overlaid on the pit shell and Inferred Resources were excluded from the estimate. The Coal Reserves were then categorised as Proved or Probable based on a combination of the Coal Resource category and the confidence level in each of the Modifying Factors incorporated in the mine planning.

Based on this approach, a total of 350 Mt of Coal Reserves were estimated for the Project, which are categorised by RPM to be 140 Mt of Proved Reserves and 210 Mt of Probable Reserves (Table B) at an average yield of 60%. The average strip ratio of the supporting PFS mine plan is 5.2 bcm/tonne ROM (i.e. 5.2:1). In the calculation of the average strip ratio some Inferred Resources has not been converted to waste and it is assumed that these tonnes will be mined but have not been included as a Reserve.

This is the first reported Statement of Open Cut Coal Reserves for Winchester South (MDL 183).

	PROVED (Mt)	PROBABLE (Mt)	TOTAL (Mt)
Coal Reserves	140	210	350
Marketable Reserves	100	110	210

Estimates are not precise calculations and have been rounded to reflect the order of accuracy. Coal Reserves are at 5.5% (as received) total moisture (ROM) and Marketable Reserves at 9% (as received) total moisture.

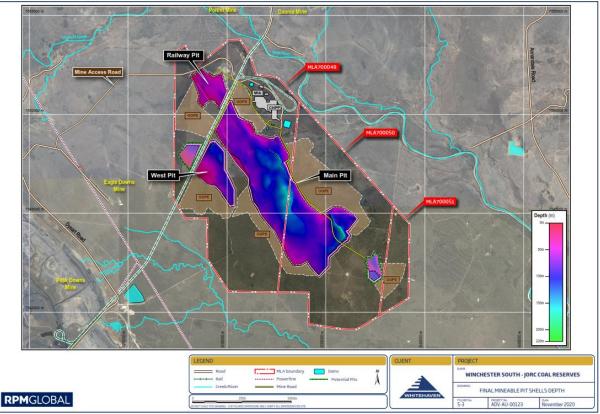


Figure 3: Winchester South mineable pit shells

Competent Person's Statement

The Statement reports the Reserves as at 30 November, 2020 and has been undertaken in accordance with the requirements of the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves prepared by the Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia ("The JORC Code").

The Coal Reserve estimates in this report were estimated by Mr Doug Sillar, BE (Mining, Hons) MAusIMM, who is a Member of the Australasian Institute of Mining and Metallurgy. The estimates are based on information compiled and reviewed by Mr. Sillar. He is an employee of RPM and has sufficient experience which is relevant to the style and type of deposit under consideration and to the activity undertaken to qualify him as a Competent Person as defined in the 2012 Edition of the JORC Code.

The appended JORC Code, 2012 Edition – Table 1 sets out all the information material to understanding the estimate of the Project Resources and Reserves.

JORC Code, 2012 Edition – Table 1 Report Template

The text presented in Table 1, Sections 1 to 3 has been copied directly from the current Resources Statement prepared by Mr Troy Turner (Xenith).

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 	•	A combination of open holes (predominantly for structural definition) and core holes for coal quality, washability data and geotechnical data have been drilled.
((\square	measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or	•	The drill holes were logged on site. The logs were then uploaded into the geological database.
6		handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	•	Core sampling was conducted by geologists onsite at the rig. The coal intervals were sampled on a ply basis and within industry standards.
	1)	 Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 		
	\mathcal{A}	 Aspects of the determination of mineralisation that are Material to the Public Report. 		
		 In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling 		
	0	problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.		
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Criteria	JORC Code explanation	Commentary
Drilling	Drill type (eg core, reverse circulation, open-hole	 The following types of drill holes have been reported from 1981 to 2020
techniques	hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth	 1,107 open holes
	of diamond tails, face-sampling bit or other type,	 55 large diameter core holes (200 mm)
	whether core is oriented and if so, by what method, etc).	 99 large diameter core holes (100 mm)
		 161 HQ/PQ wireline core holes
1		 42 geotechnical holes
		 Plus an additional 94 holes drilled prior to 1981 and/or with unreliable data
		 The 100 mm and 200 mm large diameter drill holes have been drilled/sampled to provide data for detailed washability and coking coal product studies.
Drill sample	 Method of recording and assessing core and chip sample 	 Standardised logging systems were utilised for all drilling logging and sampling.
recovery	recoveries and results assessed.	• Core recovery was recorded by the field geologist while logging the drill hole. If core recovery for a
10	 Measures taken to maximise sample recovery and ensure representative nature of the samples. 	coal interval was less than ~90%, then that section of the hole was redrilled for a representative sample.
JD)	 Whether a relationship exists between sample recovery 	 Standard checks for sample recovery were undertaken (e.g. sample mass balance against core
	and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	volume).
Logging	Whether core and chip samples have been geologically	 Open hole chip samples were logged at 1m intervals for lithology changes.
Þ	and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	 Core was geologically logged in detail. Logging included lithology, grainsize, weathering and hardness was conducted using standard dictionary definitions. Colour and any additional qualitative comments were also recorded.
	 Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The tetal length and account on of the selected. 	 Core was photographed on a core table (0.5m increment) and/or a 5m tray basis. Chips were photographed as laid out by 1m intervals.
	 The total length and percentage of the relevant intersections logged. 	 The holes were geophysically logged with a minimum suite of gamma, density and caliper but generally using a comprehensive suite of downhole geophysics tools (calliper, gamma, density, neutron, and sonic), with acoustic scanner (for geotechnical assessment) also run on some recent cored holes.
		 Total aggregate length of drilling from holes used in the geological model is >185,000 m, in 1,069 drill holes.
Sub-sampling techniques and sample	 If core, whether cut or sawn and whether quarter, half or all core taken. 	 Core sampling was completed at the drill site and based on set of standard criteria (determined by lithology and structure). Samples were bagged at the drill site and then transported to an external accredited laboratory for analysis as a complete hole batch.
preparation	 If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. 	 Samples underwent industry standard procedures for sample preparation, analyses and results reporting.
	 For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling 	 Cored samples were generally analysed in a three-stage method involving raw analysis on all plies followed by washability and clean coal product testing on composite samples as defined by the project.

Criteria	JORC Code explanation	Commentary
	 stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 Samples may have been combined for working sections.
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established. 	 All sample treatment and analysis were conducted by procedures which adhere to Australian (or International equivalent) standards in a National Association of Testing Authorities certified laboratory. Geophysical contractors used internal QA/QC process, including tool calibration. No documentary information on geophysical tool calibration was viewed as part of the current resource estimate.
Verification of sampling and assaying Location of data points	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. Accuracy and quality of surveys used to locate drillholes (collar and down-hole surveys), trenches, mine workings 	 Logged drill hole coal intersections were validated geophysical logs. Coal intersection depths and correlations have been validated by independent reviewers/auditors and/or alternative company personnel with working experience of the project area. Drill hole data is stored in Whitehaven's electronic SQL server database. Source field records, lab reports, core photographs, survey data etc. are stored in electronic form on the Whitehaven Coal network, and hard copy in borehole folders at the Project office and/or the company's Brisbane office. Collars for drill holes were surveyed by registered surveyors, Survey reports are available for most drill holes.
	 and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 Casing from holes drilled in the early 1980's is still visible for many sites. Where these were found, their location was checked against the records in the geological database and found to be accurate. The grid system used is the Map Grid of Australia 1994 (MGA94) based on the Geocentric Datum of Australia 1994 (GDA94) values. Older survey data has been converted from the grid systems and projects used at the time of survey. Downhole surveying was undertaken using the downhole verticality tools.
Data spacing and distribution	Data spacing for reporting of Exploration Results.Whether the data spacing and distribution is sufficient to	Rangal and Fort Cooper seams

Criteria	JORC Code explanation	Commentary
	establish the degree of geological and grade continuity	 A 250 m grid was drilled out during the drilling programmes in the early 1980's.
	appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	 Infill drilling was also undertaken in the early 1980's with spacing reduced to 50 metres in several places.
	 Whether sample compositing has been applied. 	 WHC performed infill drilling to approximately 100 metres in and around the sub-crop area planned to be mined in the first 10 years.
		 Spacing in the western fault block ranges from 100 metres to 500 metres.
		Geostatistical studies have been carried out to determine the confidence levels of drill hole spacing
		 The Moranbah Coal Measures drill holes spacing of the resources area is generally between ~1000- 1500 m
D		 Where coal intersections have been sampled in multiple sections per seam, compositing of samples, on a length x RD basis, has been applied to provide representation of ply intervals and working sections.
		 All core samples were composited within defined seam boundaries.
Orientation of data in relation	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which 	 The seams of the project are part of the Winchester Syncline. The syncline strikes in a northwest- southeast orientation.
to geological structure	 data in relation o geological tructure If the relationship between the drilling orientation and the orientation of key mineralised structures is 	 Drill holes have been planned and drilled on a regular pattern that considers the orientation of the deposit. Core hole coverage and open hole structural holes are spaced regularly and therefore are not considered to introduce bias into any sampling regime.
\square	considered to have introduced a sampling bias, this should be assessed and reported if material.	 The seams have relatively consistent layering with some steeper dips on the limbs of the syncline. The orientation and direction of the drill pattern is considered suitable for these types of stratified deposits.
Sample security	 The measures taken to ensure sample security. 	 Core samples taken at the drill site were reported as being transported daily to the Winchester South drill camp for storage and placed into a cold storage for the Rio drill program. Once the hole had been completed, the samples were transported to the laboratory via a dedicated courier service.
		 Appropriate chain of custody documentation has been used throughout the sampling and analysis process of the 2019/2020 drilling program.
Audits or reviews	 The results of any audits or reviews of sampling 	 No formal audits of the geological database have been undertaken.
\square	techniques and data.	 Seam picks and sample increments have been interrogated during composting of data for coal quality modelling. Mismatches of depth between samples and seam intervals were investigated and amended where appropriate.
ID)		 An extensive review of the data has been undertaken as part of the geological database transfer from RTCA systems to WHC systems.
		 Further interrogation was undertaken during the structural modelling phase.

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary								
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area. 	 N irr a 	ccupies an area IDL 183 is curren the Winchester cquisition was cquired from S cquisition on 20 the MDL is curren eeking a renewa ILS 700049, 700	ent until 30th April 2021 and a renewal app al period of 5 years. The lease is in currer 2050, and 700051 have been applied for c ent and operation of an infrastructure cor	I. Whitehaven C rch 2018, the c erest of the Wir e completion d plication was sul nt good standing open cut mining	Coal acquired a 75% interest completion date of this 75% inchester South Project was late of the remaining 25% comitted on 19 October 2020 g.				
			Tenure	Tenement Holder	Grant Date	Expiry Date				
			EPC 352	B.P. Australia limited, Drayton Mining, Westfield Development	02/04/1981	05/03/1989				
			EPC 486	Queensland Coal Pty Limited	06/03/1989	07/08/1996				
			MDL 183	Scentre Ltd (25% ownership)	03/02/1995	15/09/2014				
			MDL 183	Drayton Mining Development Proprietary Limited (25%)	03/02/1995	27/09/1996				
			MDL 183	Queensland Coal Pty Limited (50%)	03/02/1995	23/02/1995				
			MDL 183	Kembla Coal and Coke Pty Limited (50%)	23/02/1995	27/09/1996				
			MDL 183	Queensland Coal Pty Limited (50%)	27/09/1996	27/09/1996				
			MDL 183	Queensland Coal Pty Limited (75%)	27/09/1996	20/09/2018				
			MDL 183	Scentre Ltd (25%)	15/09/2014	20/09/2018				
			MDL 183	Queensland Coal Pty Limited (75%)	20/09/2018	20/09/2018				
			MDL 183	Whitehaven WS Pty Ltd (100%)	20/09/2018	Current				
			ML700049	Whitehaven WS Pty Ltd (100%)	Application	data d				
			ML700050	Whitehaven WS Pty Ltd (100%)	Application lo 14/06/2019	aged				
			ML700051	Whitehaven WS Pty Ltd (100%)	14/00/2019					

Criteria	JORC Code explanation				Commentary						
			ML700065	5 Whitehaven WS Pty Lto	d (100%)	Infrastructure ML; Application lodged 03/09/2020					
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	•				is summarised in the table below. An additional or to 1981 and/or were found to be unreliable.					
			Exploration Program	Company	Number of Holes	Type of Exploration					
			1981-1982	B.P. Coal Australia	1032	826 chip holes, 138 HQ core holes, 42 geotechnical holes, 18 large diameter core holes, 8 bulk sample holes					
\bigcirc			2005	Rio Tinto Coal Australia	22	11 Chip holes, 5 100 mm core holes, 6 200 mm core holes					
			2011	Rio Tinto Coal Australia	180	107 chip holes, 54 100 mm core holes, 9 200 mm core holes, 10 HQ core holes					
15			2013	Rio Tinto Coal Australia	6	6 cored holes (HQ and PQ diameter). 25km of 2D seismic survey lines					
			2014	Rio Tinto Coal Australia	11	7 deep core holes (PQ diameter), 4 shallow core holes (100 mm), 35km of 2D seismic lines					
\square			2019	Whitehaven Coal	199	163 chip holes, 18 200 mm core holes, 18 100 mm core holes					
			2020	Whitehaven Coal	14	14 200 mm core holes					
Geology	 Deposit type, geological setting and style of mineralisation. 	•	Bowen Basin w The sequence Vermont Uppe Lower seam o Measures are	which contains numerous im es of economic interest for er seam of the late Permian f the Fort Cooper Coal Mea potential targets for undergr	portant coal r opencut r Rangal Coa asure. The (ound mining	township of Moranbah in the Central part of the producing intervals in the Permian stratigraphy. nining include the Leichhardt seams and the al Measures as well as the and Vermont Middle Goonyella Middle seams of the Moranbah Coal g. The main host-rock types of these sub-groups s of conglomerate, and tuffaceous bands.					
\mathbb{P}		•		e deposit is dominated by t verse and normal faulting.	he north-so	buth Winchester Syncline which has been itself					
42		•	The opencut p along the sync		oper seam	s) of the deposit is located within the subcrops					
Drillhole Information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material 	•	The table belo from 1981 to 2		ill hole data	summary for the drilling that has been reported					

Criteria		JORC Code explanation						Commen	tary			
	-	drillholes: - easting and northing of the drillhole collar - elevation or RL (Reduced Level – elevation above sea				Open holes	Nun HQ/PQ	nbers of Ho 100 mm	les Drilled 200 mm	Geo- technical	Total	
	-	level in metres) of the drillhole collar - dip and azimuth of the hole - down hole length and interception depth			No. of Holes	1107	161	99	55	42	1464	
	•	- 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.	•	A summa	ary of the o	drill holes	is attached	l in an apper	ndix to the Ta	able 1.		
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.	•		omposites					proximate ana epresenting m		
	•	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.										
	1	The assumptions used for any reporting of metal equivalent values should be clearly stated.										
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 drillhole 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').	•	Based o thickness		echnique	es and strat	igraphy, the	coal seam	intercepts app	proximate t	he true coal
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 drillhole collar locations and appropriate sectional views.	•	Diagram deposit l	s and ma ocation ca	ps repres n be revie	senting sea ewed in the	am structure Resources	, seam sect report.	ions, seam q	uality, topo	ography and
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	•	Compret	nensive re	porting of	the explora	ation results	is provided in	n the Resourc	es report.	

Criteria	JORC Code explanation	Commentary
	avoid misleading reporting of Exploration Results.	
Other substantive exploration data	 Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	 In addition to drilling, approximately 60km of 2D seismic survey lines have been completed to identify seam structures including faults, folds, and possible igneous intrusions that may affect the target coal seams.
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. 	 Suggested further work to improve the understanding of the extent and understanding of the deposit could include the following: Perform a re-interpretation of existing seismic lines; conduct additional 2D seismic surveys and possibly 3D seismic at a later stage. Further washability, product specifications or coke test studies Further drilling of lox/sub-crop holes to increase confidence in the extent of near-surface fresh coal. Further drilling of holes targeting the Moranbab seams to ungrade current "Inferred" resources.
		 Further drilling of holes targeting the Moranbah seams to upgrade current "Inferred" resource to "Indicated" and to obtain detailed washability data.

Section 3 Estimation and Reporting of Mineral Resources

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

Criteria	JORC Code explanation	Commentary
Database Integrity	 Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes. Data validation procedures used. 	 Rangal and Fort Cooper Seams: Data was validated at the drill site and also prior to loading into the database by the responsible geologist.
	- Data validation procedures used.	 All drill hole data securely stored in Whitehaven's database, with regular back-ups. Lithological logs and coal intersection depths were reconciled with wireline logs Coal quality data were cross-checked against lab reports and sample depths were correlated with the lithological database
15)		 The database contains automated validation processes which were activated during data loading and to prevent un-validated data being loaded. The drill hole database has been validated before loaded into the geological model.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is the case. 	 The CP has not undertaken a site visit however has extensive knowledge of the area and coal seams within the project. The CP has worked on various projects nearby the Winchester South Coal Project and therefore knowledge of the project is sufficient enough for reporting purposes.
Geological interpretation	 Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit. 	 The deposit is well understood due to the volume of exploration drilling undertaken, supported by seismic survey lines.
	 Nature of the data used and of any assumptions made. The effect, if any, of alternative interpretations on Mineral Resource estimation. The use of geology in guiding and controlling Mineral Resource estimation. The factors affecting continuity both of grade and 	 The deposit is defined by a structural syncline and two major fault systems (Isaac and New Chum). The confidence in the current geological interpretation is considered high. 1,066 drill holes including 255 coal quality holes used in the geological model across the deposit provide good control on structure and coal quality trends of the Rangal and Fort Cooper seams. 13 cored holes were drilled into the western parts of the Moranbah Coal Measures and are considered sufficient for Inferred resources.
Dimensions	 geology. 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 Rangal and Fort Cooper seams resources trends ~15 km northwest-southeast following the Winchester South syncline and is ~6km wide at its maximum. The seams' depth below topography is generally less than 150 m. The Moranbah Coal Measures resource in the south-west of the project area trends northwest-southeast for ~10 km with a width of ~3 km and a depth from ~400 m to ~650 m below the topographic surface for the Moranbah Coal Measures seams.

Criteria	JORC Code explanation	Commentary
Estimation and modelling	 The nature and appropriateness of the estimation technique(s) applied and key assumptions, including 	 1,066 of the 1,588 drilled holes were used in the Rangal and Fort Cooper seams model. This includes 255 coal quality holes. Excluded holes were mainly either duplicates or were unreliable.
techniques	treatment of extreme grade values, domaining, interpolation parameters and maximum distance of	 13 drill holes were used to generate the MCM model.
	extrapolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.	 The Rangal and Fort Cooper seams were modelled in the Vulcan software package. The MCM seams in the Minescape Stratmodel software package. Details of the estimation techniques are given in the resource report.
	 The availability of check estimates, previous estimates and/or mine production records and whether the Mineral 	 The Rangal and Fort Cooper seam model has been updated with the 2019/2020 drilling results by Whitehaven in 2020.
	Resource estimate takes appropriate account of such data.	 No holes have been drilled into the MCM since 2014. The geological model generated in 2015 is still the latest MCM model.
\square	 The assumptions made regarding recovery of by- products. 	 Details of the geological models is provided in the Winchester South Resource report.
	 Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid 	 Xenith has reviewed both geological models and worked with Whitehaven personnel to estimate the Rangal and Fort Cooper seams coal resources.
15	mine drainage characterisation).	 Estimated the MCM seams resources.
	 In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed. 	 The resource estimates were reconciled against previous estimates.
<i>V V</i>	 Any assumptions behind modelling of selective mining units. 	
\square	• Any assumptions about correlation between variables.	
	 Description of how the geological interpretation was used to control the Resource estimates. 	
	 Discussion of basis for using or not using grade cutting or capping. 	
	 The process of validation, the checking process used, the comparison of model data to drillhole data, and use of reconciliation data if available. 	
Moisture	 Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content. 	 Resources were estimated on an in-situ basis. The in-situ relative density was calculated using the Preston and Sanders method with an in-situ moisture of 5.5% for the Rangal and Fort Cooper seams and 5% for the MCM seams.
Cut-off parameters	 The basis of the adopted cut-off grade(s) or quality parameters applied. 	 No cut-off parameters have been applied to the Rangal and Fort Cooper seams resource model regarding depth. The majority of the modelled coal exists within 150 m depth from surface
$\mathcal{P}\mathcal{P}$		 The MCM resources have been limited to a maximum depth of 650 m.
		 Some of the Rangal and Fort Cooper coal plies exceed 50% ash which is usually regarded as maximum limit for coal (resources). These high ash plies are very low yielding but have very favourable coking coal properties after coal processing.

Criteria	JORC Code explanation	Commentary
		 Xenith conducted an internal review that led to an analysis of Question 13 in the Appendix of the Guidelines for the Estimation and Classification of Coal Resources 2014 regarding "Can material more than 50% raw ash be estimated as coal?"
		• The guidelines reference the international standard ISO11760-2005 which states "material with a raw ash value of more than 50% is described as either non-coal or shale", it continues to reference that "in cases where the bulk of the Resource has a raw ash >50% the rationale for reasonable prospects should be detailed including yield."
		 Recent mining studies by WHC and sighted by the Competent Person have confirmed that the high ash plies can be mined economically and therefore it has been determined that these seams have reasonable prospects for eventual economic extraction
		• The resources for the Rangal and Fort Cooper seams are limited in area by the following parameters:
\square		- In the north-western portion of the deposit, the resource is limited by the MDL property boundary
		 The resource is split by a rail corridor in the northern part of the project. A 50 m buffer each side of the railway has been defined.
715)		 In the south-eastern portion of the deposit, the resource has been limited by the MDL property boundary.
		 In the central portions of the deposit, the northern and central extents have been limited by the subcrop lines.
		• Apart from the depth limit, the resource for the Moranbah seams are limited by the following parameters:
\square		 The Isaac Thrust Fault limits the eastern extent of the resource.
		 The MDL property boundary limits the resource along the western portion of deposit.
Mining factors or assumptions	 Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always 	• Development of the Rangal and Fort Cooper seams resource has assumed mining using standard large scale mining equipment. The mining method is assumed to include overburden removal via conventional truck and shovel as per neighbouring deposits in the region.
	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.	 The MCM seams are assumed to be mined by underground methods, likely to be longwall supported by continuous miners.
Metallurgical factors or	 The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part 	 It is assumed that a combination of density separation and fines flocculation processes would be applicable for the processing of Winchester South coal.
assumptions	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	• Test work has been undertaken to better understand the washability characteristics of the various Rangal and Fort Cooper seams with a focus on their size distribution given the vitrinite macerals report to the finer fractions.

Criteria	JORC Code explanation	Commentary
	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.	 Further work is required to better understand the washability characteristics of the MCM seams.
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. 	 Environmental impact assessments have been completed as part of the EIS process. No issues are expected that would impact on the resource estimate at this point.
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 have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit. Discuss assumptions for bulk density estimates used in the evaluation process of the different materials. 	 Resources were estimated on an in-situ basis. The in-situ relative density was calculated using the Preston and Sanders method with an in-situ moisture of 5.5% for the Rangal and Fort Cooper seams and 5% for the MCM seams No other bulk density has been used.
	 The basis for the classification of the Mineral Resources into varying confidence categories. Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data). Whether the result appropriately reflects the Competent Person's view of the deposit. 	 Resources have been classified from valid Points of Observations (PoO) and distances between PoOs PoOs are cored holes with: Coal recovery >95% for Rangal and Fort Cooper seams or >90% for Moranbah Coal Measures seams Surveyed location Lithological log Geophysical log Raw coal quality data Three resource categories have been identified depending on the level of confidence in the seam structure and continuity as well as the level of variability in the coal quality data, in accordance with the JORC Code.

	Criteria	JORC Code explanation		Commentary
			•	A geostatistical analysis (DHSA) of the Rangal and Fort Cooper seams thickness and raw ash content has been undertaken to determine the spacing between PoOs for the different resource categories.
			•	The Rangal and Fort Cooper seams spacing used was:
				 600 m for Measured, 1,050 m for Indicated, and 2,200 m for Inferred except for the L1A1/2 and L2BC seams and the VI ply of the VML seam, with 400, 700 and 1,200 m respectively The MCM seams used a nominal spacing of:
			-	 500 m for Measured 1,000 m for Indicated, and 4,000 m for Inferred. The resulting resource categories polygons were reviewed by the CP before resources were estimated.
Æ	Audits or reviews	 The results of any audits or reviews of Mineral Resource 		No formal audits have been completed on this Resource Estimate.
Y	Addits of Teviews	estimates.		No formal addits have been completed on this 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 		The CP has reviewed the geological data and the geological models as well as the resource estimation processes. A geostatistical analysis (DHSA) has been undertaken for the Rangal and Fort Cooper seams resource classifications.
		relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed	•	The Rangal and Fort Cooper seams geostatistical analysis reported relative accuracy of $\pm 10\%$ for measured resources, $\pm 20\%$ for indicated resources, and $\pm 50\%$ for inferred resources.
C	D	appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.	•	No geostatistical analysis was carried out the MCM resources. The classification of all resources as Inferred resources is considered appropriate.
		 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. 		
C		 These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 		

Section 4 Estimation and Reporting of Ore Reserves The completed Table 1, Section 4 checklist is in response to mine planning work completed for the Winchester South Reserves Report performed by Competent Person Mr Doug Sillar on behalf of RPM. (Criteria listed in Section 1, and where relevant in Sections 2 and 3, also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral Resource estimate for conversion to Ore Reserves	 Description of the Mineral Resource estimate used as a basis for the conversion to an Ore Reserve. Clear statement as to whether the Mineral Resources are reported additional to, or inclusive of, the Ore Reserves. 	 The Mineral Resource estimate used as the basis for this Coal Reserves Statement is described in the document "Winchester South Project Resource Estimate", November 2020, prepared by Mr. Troy Turner. The Competent Person, Mr. Turner, has sufficient expertise that is relevant to the style of mineralisation and type of deposit and activity to qualify as a Competent Person as specified under the JORC Code and is a member of the Australian Institute of Mining and Metallurgy.
		The Resources Statement was compiled in accordance with The JORC Code 2012 Edition.
		 The Coal Resources reported are inclusive of the Coal Reserves.
Site visits	 Comment on any site visits undertaken by the Competent Person and the outcome of those visits. If no site visits have been undertaken indicate why this is 	 The Reserves Competent Person ("CP") has not visited the site as it is currently a Greenfield site.
75	the case.	
Study status	 The type and level of study undertaken to enable Mineral Resources to be converted to Ore Reserves. The Code requires that a study to at least Pre-Feasibility Study level has been undertaken to convert Mineral Resources to Ore Reserves. Such studies will have been carried out and will have determined a mine plan that is technically achievable and economically viable, and that material Modifying Factors have been considered. 	 RPM completed a draft Pre-Feasibility Study on the Winchester South Project in June 2020. As at the report date, WHC with input from various technical experts has completed an advanced draft Pre-Feasibility Study for the Project which is due for completion in December 2020. The Competent Person for Reserves is satisfied that the study meets the technical requirements of a Pre-Feasibility Study.
Cut-off parameters	 The basis of the cut-off grade(s) or quality parameters applied. 	 No ash cut off has been applied to the Resource model classification.
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Criteria	JORC Code explanation	Commentary
Criteria Mining factors or assumptions	 JORC Code explanation The method and assumptions used as reported in the Pre- Feasibility or Feasibility Study to convert the Mineral Resource to an Ore Reserve (i.e. either by application of appropriate factors by optimisation or by preliminary or detailed design). The choice, nature and appropriateness of the selected mining method(s) and other mining parameters including associated design issues such as pre-strip, access, etc. The assumptions made regarding geotechnical parameters (eg pit slopes, stope sizes, etc.), grade control and pre-production drilling. The major assumptions made and Mineral Resource model used for pit and stope optimisation (if appropriate). The mining dilution factors used. Any minimum mining widths used. The manner in which Inferred Mineral Resources are utilised in mining studies and the sensitivity of the outcome to their inclusion. The infrastructure requirements of the selected mining methods. 	 Commentary The Resource model has been converted from Maptek Vulcan software to Geovia Minex software The converted model has been validated to the Resource model. A small increase in tonnage (1.75 was observed between the Minex mining model and the Vulcan Resource model. RPM determined the pit limits using the Minex Pit Optimiser software. The software produces a serie of nested pit shells at a range of revenue assumptions. The selected shells represents the increment break-even limit at which point the cost of mining is the same as the revenue. The mining method is a conventional truck and excavator mining method supported by cast blastit and dozer push operations for a portion of the VA3 interburden. Waste will initially be hauled to out pit emplacements but will transition to inpit dumping as inpit dump capacity becomes available. Th is a proven mining method and considered appropriate for future planning based upon geology, deport characterisation and strip ratio. Further work is required to confirm the cast blasting/dozer pus volumes. Geotechnical studies have been completed by previous owners of the project. The recommende slope designs are consistent with those in the region. Additional work is required to confirm the slop criteria of the proposed pit shells, particularly in the vicinity of fault zones. The mining modifying factors used were: Mineable coal section roof loss of 0.055 m; Mineable coal section roof dilution of 0.055 m; Mineable coal section floor dilution of 0.055 m; Mineable coal section floor dilution of 0.255 m; The quality of diluting material is relative density of 2.2 t/bcm, and ash of 80% (ad); and ROM moisture is assumed to be 5.5%. 20 Mt of Inferred coal is contained within the Reserves pit shell and represents 5% of the coal in th Reserves pit shell. If this coal is excluded from the mine plan it would reduce the mine life by 1-2 year RPM anticipate tha
Metallurgical	The metallurgical process proposed and the	 workshop, stores, administration building, water management structures and haul roads. There currently no infrastructure located on the site. All coal requires washing at Winchester South.
factors or assumptions	 The metallargical process proposed and the appropriateness of that process to the style of mineralisation. Whether the metallurgical process is well-tested 	 The proposed coal preparation plant is a two stage plant with dense media cyclones, reflux classifier and flotation. The technology is well tested in the industry.

Criteria	JORC Code explanation	Commentary
Environmental	 technology or novel in nature. The nature, amount and representativeness of metallurgical test work undertaken, the nature of the metallurgical domaining applied and the corresponding metallurgical recovery factors applied. Any assumptions or allowances made for deleterious elements. The existence of any bulk sample or pilot scale test work and the degree to which such samples are considered representative of the ore body as a whole. For minerals that are defined by a specification, has the ore reserve estimation been based on the appropriate mineralogy to meet the specifications? The status of studies of potential environmental impacts of the mining and processing operation. Details of waste rock characterisation and the considered and, where applicable, the status of approvals for process residue storage and waste dumps should be reported. The existence of appropriate infrastructure: availability of land for plant development, power, water, transportation (particularly for bulk commodities), labour, accommodation; or the ease with which the infrastructure can be provided, or accessed. 	 Following the completion of 18 large diameter drill holes, A&B Mylec completed a washability and CHPP simulation study in 2020. Yield and ash projections were estimated for primary and secondary products. The project has potential to produce a range of coal products including: MVPCI - Ash at 11% (ad); SHCC - CSR 55, CSN 6 and 10.5% Ash (ad); SHCC - CSR 45, CSN 5 and 10.5% Ash (ad); SHCC - CSR 45, CSN 5 and 10.5% Ash (ad); High ash SHCC – Ash between 13% and 14.5% (ad), and Thermal coal ranging from 24% - 26% (ad) ash and average CV of approximately 5,500 kcal/kg (NAR). For the purposes of this Reserves statement it is assumed that: Primary product for all seams is to be washed and blended to achieve an 11% (ad) ash PCI coal, and Secondary product from all seams blended and sold as thermal coal. No bulk samples or test pits have been completed. The Winchester South EIS has been completed in December 2020 and submitted as Draft EIS to the Queensland Government for Adequacy Review Waste rock characterisation has been completed with greater than 99% of rock with low sulphur and no-acid forming. It is assumed that any material with acid forming potential can be managed through sequencing of dumps and selective placement. The Winchester South Project is a Greenfield site and as such there is currently no mine infrastructure on the site. The required infrastructure has been outlined in the 2020 PFS and will include administration building, workshops, coal handling and preparation plant, rail loop, stockpiles, haul roads and surface water management structures. Power is proposed to be connected to the site via the Powerlink Eagle Downs Substation, and raw water from the Eugella Pipeline system.
\bigcirc		The workforce will be accommodated in existing camp facilities in the region.
Costs D 1D	 The derivation of, or assumptions made, regarding projected capital costs in the study. The methodology used to estimate operating costs. Allowances made for the content of deleterious elements. The source of exchange rates used in the study. Derivation of transportation charges. The basis for forecasting or source of treatment and 	 Capital costs have been estimated for the project as part of the 2020 PFS. The costs are considered reasonable for the project Following the initial infrastructure development costs and initial purchase of mining equipment, the primary ongoing capital requirement is for the replacement of mining equipment. All operating costs were estimated as part of the 2020 PFS. Mining costs have been estimated based on RPM equipment cost databases. Site overheads have been estimated in conjunction with WHC.

Criteria	JORC Code explanation	Commentary
	refining charges, penalties for failure to meet specification, etc.	 Long-term exchange rate assumptions were provided by WHC in November 2020 and based on CRI long term forecast.
	 The allowances made for royalties payable, both 	 Transport charges estimates provided by WHC.
	Government and private.	• Queensland state royalty has been estimated and applied as a cost in the project economic model.
		 RPM reviewed all costs and they are considered reasonable.
Revenue factors	 The derivation of, or assumptions made regarding revenue factors including head grade, metal or 	 The long term CRU coal price forecasts were provided by WHC in November 2020. These assumption are considered reasonable for the purposes of estimating Reserves.
	commodity price(s) exchange rates, transportation and	• WHC advised site specific discounts to apply to the benchmark coal prices for the various products.
	 treatment charges, penalties, net smelter returns, etc. The derivation of assumptions made of metal or commodity price(s), for the principal metals, minerals and 	 Thermal prices have been energy adjusted.
	co-products.	
Market assessment	The demand, supply and stock situation for the particular commodity, consumption trends and factors likely to	 WHC has conducted both internal and external market assessments and advised on the appropria discounts to benchmark pricing for the Winchester South product specification.
	affect supply and demand into the future.A customer and competitor analysis along with the identification of likely market windows for the product.	 Analysis of supply and demand is a primary consideration of coal price forecasts. Markets exist for the coal products produced by the project.
	 Price and volume forecasts and the basis for these forecasts. 	
\square	• For industrial minerals the customer specification, testing and acceptance requirements prior to a supply contract.	
Economic	 The inputs to the economic analysis to produce the net present value (NPV) in the study, the source and confidence of these economic inputs including estimated inflation, discount rate, etc. 	 The inputs to the economic analysis of the Project are derived capital and operating cost estimate outlined in the "Costs" section of this Table 1. The source of the inputs is through mine planning to PF level of detail and the confidence satisfactory. The economic modelling is in real terms at a discour rate of 9.25%.
	 NPV ranges and sensitivity to variations in the significant assumptions and inputs. 	 The NPV results produced from economic modelling generated a positive and acceptable NPV 9.25% discount rate and the mine is considered economic from an NPV stand-point.
		Sensitivity analysis has been completed on key value drivers. The results indicate that the mine sensitive to downside variations in revenue, operating cost and exchange rate. If there are changes the global metallurgical and thermal coal markets that lead to a downward revision of coal price, the Project economic viability diminishes. Similarly, increases in operating costs, adverse foreign exchange movements affecting revenue and increase in capital costs to construct the Project will also result adverse economic viability consequences. Conversely, during the economic cycle, should changes the global metallurgical and thermal coal markets lead to upside revisions to coal prices the Proje economic viability would be improved with the potential for Reserves and Marketable Reserves to be restated upwards.
Social	 The status of agreements with key stakeholders and matters leading to social licence to operate. 	 WHC's first agreement for the Winchester South Project was its Cultural Heritage Management Pla ("CHMP") with the Barada Barna. In addition to the CHMP, Whitehaven Coal also has in place

Criteria	JORC Code explanation	Commentary
		 Reconciliation Action Plan ("RAP") and the RAP operates across all areas of the business (incl. Winchester South) and contains practical and meaningful objectives to address issues affecting local Aboriginal and Torres Strait Islander people. WHC will also implement a Social Impact Management Plan ("SIMP") for the Project, the SIMP will detail the actions that WHC has committed to in response to the impacts and opportunities identified in Winchester South Social Impact Assessment ("SIA"). WHC also has a compensation agreement in place with Pembroke Olive Downs Pty Ltd for the land associated with MLA700051.
	 To the extent relevant, the impact of the following on the project and/or on the estimation and classification of the Ore Reserves: Any identified material naturally occurring risks. The status of material legal agreements and marketing arrangements. The status of governmental agreements and approvals critical to the viability of the project, such as mineral tenement status, and government and statutory approvals. There must be reasonable grounds to expect that all necessary Government approvals will be received within the timeframes anticipated in the Pre-Feasibility or Feasibility study. Highlight and discuss the materiality of any unresolved matter that is dependent on a third party on which extraction of the reserve is contingent. 	 All mining projects operate in an environment of geological uncertainty. RPM is not aware of any other potential factors, legal, marketing or otherwise, that could affect the project's viability. The project approvals are not yet in place. WHC does not own all of the land covering the project area. EIS has been submitted to the Queensland Government in Dec 2020. Project approval anticipated to take a further 12 to 18 months.
Classification	 The basis for the classification of the Ore Reserves into varying confidence categories. Whether the result appropriately reflects the Competent Person's view of the deposit. The proportion of Probable Ore Reserves that have been derived from Measured Mineral Resources (if any). 	 Classification of Coal Reserves has been derived by considering the Measured and Indicated Resources and the level of mine planning. For the Main and Railway pits, Measured Coal Resources are classified as Proved Coal Reserves and Indicated Resources classified as Probable Coal Reserves, as the level of mine planning is considered adequate to support this level of certainty in the Reserves estimate. For West pit both Measured and Indicated Resources are classified as Probable Coal Reserves. The Inferred Coal Resources have been excluded from the Reserve estimates. The result reflects the Competent Persons view of the deposit.
Audits or reviews	 The results of any audits or reviews of Ore Reserve estimates. 	 Internal peer review and reconciliation by RPM of the Reserves estimate has been completed.

Criteria	JORC Code explanation	Commentary
Discussion of relative accuracy/	 Where appropriate a statement of the relative accuracy and confidence level in the Ore Reserve estimate using an 	 The Reserves are supported by approximately 39% of Measured Coal Resources within the JORC pit shell.
confidence	approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative geographics the spectrum within stated confidence.	 The basis of the estimate is the 2020 PFS completed by WHC in conjunction with a number of technical advisors. Costs have been reviewed by the Competent Person and are deemed reasonable for the estimation of Reserves.
	relative accuracy of the reserve within stated confidence limits, or, if such an approach is not deemed appropriate,	 There is no mine infrastructure currently in place.
	a qualitative discussion of the factors which could affect the relative accuracy and confidence of the estimate.	 Analysis of the coal quality has been undertaken by independent laboratories working under international standards of method and accuracy.
	 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 	 Coal washability and simulation studies have been completed and used as the basis for product tonnage and ash estimates.
\square	economic evaluation. Documentation should include assumptions made and the procedures used.	 The level of accuracy will continue to be dependent on the ongoing update of the geological model and monitoring of the Modifying Factors affecting the Reserves estimate once the project is in production.
	 Accuracy and confidence discussions should extend to specific discussions of any applied Modifying Factors that 	 Geotechnical studies have been completed however an update is required during Feasibility Study to confirm pit limits.
D	may have a material impact on Ore Reserve viability, or for which there are remaining areas of uncertainty at the current study stage.	 Internal peer review and reconciliation by RPM of the Reserves estimate has been completed.
\mathcal{D}	 It is recognised that this may not be possible or appropriate in all circumstances. These statements of relative accuracy and confidence of the estimate should be compared with production data, where available. 	