

**Masama Coal Resources, Raw Coal Qualities and Modelled Theoretical Product Yields and Qualities  
as at 29 September 2017**

Mining Method	Resource Classification	Seam	Geo-loss	Mineable Tonnes In Situ	Seam Thickness	Raw Coal Qualities on an air dried basis						
						Raw RD	Raw CV	Raw Ash	Raw Inherent Moisture	Raw Volatile Content	Raw Fixed Carbon	Raw Total Sulphur
						(%)	(tonnes)	(m)	(g/cm3)	(MJ/kg)	(%)	(%)
OC	<i>Measured</i>	A	8%	12 706 952	4,80	1,51	22,5	19,1	5,73	25,5	49,7	2,10
	<i>Indicated</i>	A	12%	47 649 094	5,02	1,57	22,3	19,6	5,69	25,1	49,6	1,75
	<i>Indicated</i>	E	12%	18 486 934	1,55	1,55	21,6	24,3	4,83	25,9	45,0	2,26
	<i>Inferred</i>	AU	20%	3 420 903	1,27	1,66	18,0	33,2	4,70	22,1	40,0	1,53
<b>Opencastable Resource</b>			<b>12%</b>	<b>82 263 884</b>								
Mining Method	Resource Classification	Seam	Geo-loss	Mineable Tonnes In Situ	Seam Thickness	Raw RD	Raw CV	Raw Ash	Raw Inherent Moisture	Raw Volatile Content	Raw Fixed Carbon	Raw Total Sulphur
UG	<i>Indicated</i>	A	12%	7 069 391	4,70	1,58	21,8	20,6	5,83	24,4	49,2	1,51
	<i>Inferred</i>	A	20%	206 375 994	4,68	1,55	22,9	19,3	4,71	25,5	50,4	1,90
	<i>Inferred</i>	E	20%	94 208 868	1,71	1,52	22,0	23,2	5,20	25,9	45,7	1,91
<b>Underground Mineable Resource</b>			<b>20%</b>	<b>307 654 254</b>								
<b>TOTAL COAL RESOURCE</b>				<b>389 918 137</b>								

Mining Method	Resource Classification	Seam	Geo-loss	Mineable Tonnes In Situ	Product Coal Quality and Theoretical Yields															
					Product Float RD	Product CV	Product Ash	Product Inherent Moisture	Product Volatile Content	Product Fixed Carbon	Product Sulphur	Product Yield								
					(g/cm3)	(MJ/kg)	(%)	(%)	(%)	(%)	(%)	(%)								
OC	<i>Measured</i>	A	8%	12 706 952	1,55	26,0	10,1	6,55	26,7	56,7	0,40	66,4								
	<i>Indicated</i>	A	12%	47 649 094	1,53	26,0	9,7	6,62	26,7	57,0	0,34	58,3								
	<i>Indicated</i>	E	12%	18 486 934	1,63	26,5	10,4	5,61	30,7	53,4	0,47	71,3								
	<i>Inferred</i>	AU	20%	3 420 903	1,72	21,0	24,4	5,44	24,6	45,6	1,00	66,0								
Mining Method	Resource Classification	Seam	Geo-loss	Mineable Tonnes In Situ	Product Float RD	Product CV	Product Ash	Product Inherent Moisture	Product Volatile Content	Product Fixed Carbon	Product Sulphur	Product Yield								
													(%)	(tonnes)	(g/cm3)	(MJ/kg)	(%)	(%)	(%)	(%)
													(%)	(tonnes)	(g/cm3)	(MJ/kg)	(%)	(%)	(%)	(%)
UG	<i>Indicated</i>	A	12%	7 069 391	1,53	26,0	9,0	6,94	26,7	57,3	0,40	56,3								
	<i>Inferred</i>	A	20%	206 375 994	1,61	26,0	11,2	5,31	26,5	56,9	0,37	70,1								
	<i>Inferred</i>	E	20%	94 208 868	1,69	26,5	11,2	4,74	30,6	53,4	0,73	71,6								