

FINAL ANALYSIS REPORT

Attention: Robert Kelbrick
Company: Rhino Quarries
Order No: Paid
Address: 5 Styer St
Randfontein

Labware No. ISA/20/0102
Date: 10/09/2019

Sample Type: Other
Condition of samples: Acceptable

Element	Fe2O3	MnO	Cr2O3	V2O5	TiO2	CaO	K2O	P2O5	SiO2	Al2O3	MgO	Na2O	H2O-plus LOI
Units	%	%	%	%	%	%	%	%	%	%	%	%	%
Method No.	M451	M451	M451	M451	M451	M451	M451	M451	M451	M451	M451 FUS/XRF*		GRAV*
AMIS0056	10.0	0.18	0.19	<0.23	0.24	11.8	<0.17	<0.02	46.8	7.23	17.5	0.59	4.53
Red	2.42	0.04	<0.07	<0.23	0.18	<0.06	0.35	<0.02	94.2	1.74	<0.3	0.22	0.33
Yellow	2.37	0.05	<0.07	<0.23	0.06	<0.06	<0.17	<0.02	96.3	0.82	<0.3	0.21	-0.13
Dupl-Yellow	2.36	0.05	<0.07	<0.23	0.06	<0.06	<0.17	<0.02	96.3	0.83	<0.3	0.21	-0.13
Stone	3.15	0.05	<0.07	<0.23	0.06	<0.06	<0.17	<0.02	95.0	0.43	<0.3	<0.1	-0.49
BLANK	<0.06	<0.02	<0.07	<0.23	0.04	<0.06	<0.17	<0.02	98.1	0.34	<0.3	0.30	0.18
SARM 1	1.99	0.02	<0.07	<0.23	0.09	0.78	4.81	<0.02	77.0	11.8	<0.3	3.28	0.71

Sample Names		(+850µm)	(+600µm)	(+425µm)	(+300µm)	(+212µm)	(+150µm)	(+125µm)	(+106µm)	(+75µm)	(+53µm)	(-53µm)
Units		%	%	%	%	%	%	%	%	%	%	%
Red	Passing	0	0.75	16.15	21.95	21.65	11.57	4.19	2.79	3.99	4.32	12.64
	Cumulative	100	99.25	83.1	61.15	39.5	27.93	23.74	20.95	16.96	12.64	

FUS/XRF* = Fuse disc - XRF finish

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Record: Analysis report revision status: 2013-07-12
Designed and approved by N. McKenzie



T0223



Directors: J.W Hillary, R Naidoo, N.N Robinson, M Padayachee. Company Secretary: Y Dembskey

Element	Fe2O3	MnO	Cr2O3	V2O5	TiO2	CaO	K2O	P2O5	SiO2	Al2O3	MgO	Na2O	LOI
Units	%	%	%	%	%	%	%	%	%	%	%	%	%
Method No.	M451	M451	M451	M451	M451	M451	M451	M451	M451	M451	M451 FUS/XRF*		GRAV*



Nthudzeni Mabidi
(Report compiler)

Please note:

- 1 All methods indicated with an asterisk next to the code are not accredited
Please refer to the table at the end of this report for the concentration ranges;
- 2 Results relate only to the samples tested;
- 3 Results are reported on an "as received" basis unless otherwise specified.;
- 4 This report may not be reproduced, except in full, without the written approval of Set Point Laboratories;
- 5 While every effort is made to provide analysis of the highest accuracy, the liability of Set Point Laboratories is restricted to the cost of the analysis.
- 6 Although the results have been verified as correct, the original hard copy and pdf is the only valid test report.



Thelma Horsfield
(Technical Signatory)

INFORMATION SHEET : METHOD CODES AND ACCREDITED RANGES

DETERMINAND	METHOD CODE	ACCREDITED	TECHNIQUE	LIMIT OF DETECTION	RANGE
Copper (Cu)	M446-1	Yes	Multi acid digest/ICP finish	Cu 0.001 %	Cu 0.0010 - 1.0%
Nickel (Ni)	M446-1	Yes	Multi acid digest/ICP finish	Ni 0.001 %	Ni 0.0010 - 1.0%
Cobalt (Co)	M446-1	Yes	Multi acid digest/ICP finish	Co 0.001 %	Co 0.0010 - 1.0%
Fe2O3	M451	Yes	XRF fused disc	Fe2O3 0.06 %	Fe2O3 0.1 - 99.75 %
MnO	M451	Yes	XRF fused disc	MnO 0.02 %	MnO 0.21 - 65.74 %
Cr2O3	M451	Yes	XRF fused disc	Cr2O3 0.07 %	Cr2O3 0.42 - 3.5 %
V2O5	M451	Yes	XRF fused disc	V2O5 0.23 %	V2O5 0.23 - 9.36 %
TiO2	M451	Yes	XRF fused disc	TiO2 0.03 %	TiO2 0.09 - 32.8 %
CaO	M451	Yes	XRF fused disc	CaO 0.06 %	CaO 0.14 - 70 %
K2O	M451	Yes	XRF fused disc	K2O 0.17 %	K2O 0.17 - 15.35 %
P2O5	M451	Yes	XRF fused disc	P2O5 0.02%	P2O5 0.03 - 39.96 %
SiO2	M451	Yes	XRF fused disc	SiO2 0.82 %	SiO2 0.8 - 99.6 %
Al2O3	M451	Yes	XRF fused disc	Al2O3 0.2 %	Al2O3 0.8 -58.8 %
MgO	M451	Yes	XRF fused disc	MgO 0.3 %	MgO 0.3 - 43.51 %
Copper (Cu) Merensky	M450	Yes	XRF pressed disc	Cu 10 ppm	Cu 10 - 5000 ppm
Nickel (Ni) Merensky	M450	Yes	XRF pressed disc	Ni 10ppm	Ni 10 - 9000 ppm
Copper (Cu) UG2	M450	Yes	XRF pressed disc	Cu 10ppm	Cu 10 - 800 ppm
Nickel (Ni) UG2	M450	Yes	XRF pressed disc	Ni 10ppm	Ni 10 - 3500 ppm