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LEVEL3

24 OUTRAM STREET

WEST PERTH WA 6005

Page: 1

Total # Pages: 3 (A - C)

Plus Appendix Pages

Finalized Date: 13-OCT-2022

Account: VENMIN

QC CERTIFICATE PH22245540

Project: Brothers

P.O. No.: BR002

This report is for 80 samples of Rock submitted to our lab in Perth, WA, Australia on 1-SEP-2022.

The following have access to data associated with this certificate:

ALEX COLWELL
RITWIK NAITHANI

ANGELIQUE MARTIN
STUART OWEN

SERGI MASCLANS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test
STDINS-01	Standard Insertion Charge
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
BAG-01	Bulk Master for Storage
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-31	Fine crushing - 70% < 2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
CRU-21	Crush entire sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Page: 2 – A
Total # Pages: 3 (A – C)
Plus Appendix Pages
Finalized Date: 13-OCT-2022
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QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 5	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.02	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.05	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.05	ME-MS81 Nd ppm 0.1
STANDARDS																
OREAS 20a		1005	71.1	83	13.90	4.65	2.91	1.33	17.6	5.18	6.94	0.95	35.5	0.44	18.50	32.5
Target Range – Lower Bound		973	73.7	73	13.75	4.67	2.74	1.28	16.1	5.16	7.07	0.95	37.6	0.40	17.95	31.6
Upper Bound		1190	90.3	101	16.85	5.81	3.42	1.60	19.9	6.42	8.75	1.19	46.2	0.51	22.1	38.8
OREAS 460		846	1855	391	3.54	18.85	5.78	21.8	24.6	47.7	11.15	2.72	1395	0.44	656	796
OREAS 460		871	1955	416	3.88	20.3	5.92	22.3	28.6	50.5	11.70	2.90	1430	0.54	723	820
Target Range – Lower Bound		727	1620	349	3.30	17.75	5.38	20.4	24.2	45.0	10.55	2.48	1230	0.46	628	703
Upper Bound		889	1980	437	4.06	21.8	6.64	25.0	29.8	55.1	13.05	3.06	1505	0.58	768	859
SARM-48		337	1230	26	1.80	53.4	42.4	0.41	32.3	39.2	16.30	12.45	697	6.85	220	312
Target Range – Lower Bound		297	1015	12	1.65	46.8	36.8	0.32	30.1	34.3	13.90	10.75	594	5.98	182.0	256
Upper Bound		364	1245	34	2.03	57.3	45.0	0.44	37.0	42.1	17.10	13.15	726	7.33	222	314
SY-4		359	128.5	12	1.62	19.70	14.50	2.02	37.3	13.80	11.10	4.44	60.8	2.16	14.25	60.9
SY-4		357	127.5	15	1.62	19.95	14.45	1.88	38.0	14.85	10.50	4.70	59.7	2.22	13.60	60.0
Target Range – Lower Bound		306	109.5	<5	1.34	16.35	12.75	1.78	32.3	12.55	9.95	3.86	52.1	1.88	11.65	51.2
Upper Bound		375	134.5	23	1.66	20.1	15.65	2.22	39.7	15.45	12.25	4.74	63.9	2.32	14.35	62.8
BLANKS																
BLANK		<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.05	<0.01	<0.1	0.01	<0.05	<0.1
BLANK		<0.5	0.1	<5	<0.01	<0.05	<0.03	<0.02	0.2	<0.05	<0.05	<0.01	0.1	<0.01	<0.05	<0.1
BLANK		<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.05	0.01	<0.1	0.02	<0.05	<0.1
Target Range – Lower Bound		<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.05	<0.01	<0.1	<0.01	<0.05	<0.1
Upper Bound		1.0	0.2	10	0.02	0.10	0.06	0.04	0.2	0.10	0.10	0.02	0.2	0.02	0.10	0.2
DUPLICATES																
THRE001		119.0	200	467	3.86	4.53	1.69	2.74	38.4	7.35	12.80	0.71	70.5	0.23	124.0	51.5
DUP		127.5	212	508	3.96	4.88	1.84	2.83	40.2	7.26	12.95	0.74	75.8	0.22	126.0	54.7
Target Range – Lower Bound		116.5	195.5	458	3.70	4.42	1.65	2.63	37.2	6.89	12.20	0.68	69.4	0.20	118.5	50.3
Upper Bound		130.0	216	517	4.12	4.99	1.88	2.94	41.4	7.72	13.55	0.77	76.9	0.25	131.5	55.9
THRE016		365	17.6	58	12.55	0.85	0.57	0.34	22.0	1.03	8.11	0.19	20.0	0.14	13.95	12.0
DUP		379	17.4	57	12.55	0.96	0.47	0.35	21.5	1.10	7.46	0.17	20.0	0.09	13.55	11.6
Target Range – Lower Bound		353	16.5	50	11.90	0.81	0.46	0.31	20.6	0.96	7.35	0.16	18.9	0.10	13.00	11.1
Upper Bound		391	18.5	65	13.20	1.00	0.58	0.38	22.9	1.17	8.22	0.20	21.1	0.13	14.50	12.5



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Page: 2 - B
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 13-OCT-2022
 Account: VENMIN

Project: Brothers

QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sc ppm 0.5	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 0.5	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti % 0.01	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 0.5	ME-MS81 Y ppm 0.1
STANDARDS																
OREAS 20a		8.44	217	12.2	6.44	3.5	271	1.3	0.78	19.80	0.47	0.37	5.92	112	2.5	26.6
Target Range - Lower Bound		8.40	210	10.6	5.96	2.9	269	1.3	0.78	19.75	0.44	0.40	5.97	98	2.7	26.2
Upper Bound		10.30	257	14.0	7.36	5.3	329	1.9	0.98	24.3	0.56	0.51	7.41	130	5.0	32.2
OREAS 460		236	73.8	30.0	105.5	17.7	316	12.7	4.47	114.0	1.25	0.68	4.01	265	4.7	61.8
OREAS 460		252	78.5	31.5	111.0	17.0	326	13.4	4.99	117.5	1.32	0.67	4.19	281	4.7	64.8
Target Range - Lower Bound		220	67.3	28.3	96.3	13.9	274	12.2	4.35	104.5	1.07	0.62	3.74	225	3.8	53.9
Upper Bound		268	82.7	35.7	117.5	18.1	336	15.2	5.33	127.5	1.33	0.78	4.68	286	6.3	66.1
SARM-48		109.0	299	3.1	47.1	4.8	31.9	6.6	7.30	122.0	0.07	6.76	28.0	9	1.5	465
Target Range - Lower Bound		96.3	262		40.9	4.3	26.9	5.8	6.38	101.5		5.93	24.5	<5	1.2	392
Upper Bound		117.5	320		50.1	6.9	33.1	7.3	7.82	124.5		7.27	30.1	18	3.4	480
SY-4		15.95	59.8	2.0	13.20	7.8	1290	0.9	2.65	1.20	0.19	2.50	1.18	8	<0.5	129.5
SY-4		15.75	59.5	1.3	13.40	7.9	1290	0.8	2.86	2.30	0.19	2.41	1.41	9	<0.5	127.5
Target Range - Lower Bound		13.50	49.3	1.3	11.40	6.6	1070	0.7	2.33	1.11	0.14	2.06	0.66	<5	<0.5	107.0
Upper Bound		16.50	60.7	3.5	14.00	9.4	1310	1.1	2.87	1.47	0.20	2.54	0.94	18	2.3	131.0
BLANKS																
BLANK		<0.02	<0.2	<0.5	<0.03	<0.5	<0.1	<0.1	<0.01	<0.05	<0.01	<0.01	<0.05	<5	<0.5	<0.1
BLANK		<0.02	<0.2	<0.5	<0.03	<0.5	0.2	0.1	<0.01	<0.05	<0.01	0.01	<0.05	5	1.0	<0.1
BLANK		<0.02	<0.2	<0.5	<0.03	<0.5	<0.1	0.1	0.01	<0.05	<0.01	<0.01	<0.05	<5	<0.5	<0.1
Target Range - Lower Bound		<0.02	<0.2		<0.03	<0.5	<0.1	<0.1	<0.01	<0.05	<0.01	<0.01	<0.05	<5	<0.5	<0.1
Upper Bound		0.04	0.4		0.06	1.0	0.2	0.2	0.02	0.10	0.02	0.02	0.10	10	1.0	0.2
DUPLICATES																
THRE001		14.35	28.9	22.9	10.10	5.9	169.5	7.6	0.93	15.00	2.70	0.24	5.04	273	1.9	18.5
DUP		15.30	30.4	24.7	10.50	5.4	182.5	8.2	0.91	16.25	2.84	0.26	5.38	289	1.9	18.0
Target Range - Lower Bound		14.05	28.0	22.1	9.76	4.9	167.0	7.4	0.86	14.80	2.62	0.23	4.90	262	1.3	17.2
Upper Bound		15.60	31.3	25.5	10.85	6.4	185.0	8.4	0.98	16.45	2.92	0.27	5.52	300	2.5	19.3
THRE016		3.44	140.0	7.9	1.76	3.9	51.3	1.4	0.17	13.80	0.47	0.08	3.68	67	1.5	4.5
DUP		3.47	136.0	7.4	1.77	3.8	50.2	1.4	0.17	13.90	0.46	0.13	3.68	83	1.4	4.9
Target Range - Lower Bound		3.26	131.0	6.8	1.65	3.2	48.1	1.2	0.15	13.10	0.43	0.09	3.45	66	0.9	4.4
Upper Bound		3.65	145.0	8.5	1.88	4.5	53.4	1.6	0.19	14.60	0.50	0.12	3.91	84	2.0	5.0



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Page: 2 – C
 Total # Pages: 3 (A – C)
 Plus Appendix Pages
 Finalized Date: 13-OCT-2022
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QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 1
STANDARDS			
OREAS 20a		2.36	272
Target Range – Lower Bound		2.63	272
Upper Bound		3.29	334
OREAS 460		3.69	492
OREAS 460		3.56	520
Target Range – Lower Bound		3.49	424
Upper Bound		4.33	520
SARM-48		44.2	354
Target Range – Lower Bound		41.5	292
Upper Bound		50.7	359
SY-4		15.30	620
SY-4		15.25	587
Target Range – Lower Bound		13.30	544
Upper Bound		16.30	667
BLANKS			
BLANK		<0.03	<1
BLANK		<0.03	<1
BLANK		<0.03	<1
Target Range – Lower Bound		<0.03	<1
Upper Bound		0.06	2
DUPLICATES			
THRE001		1.56	610
DUP		1.56	612
Target Range – Lower Bound		1.45	579
Upper Bound		1.67	643
THRE016		0.67	338
DUP		0.49	289
Target Range – Lower Bound		0.52	297
Upper Bound		0.64	330



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Page: 3 - A
Total # Pages: 3 (A - C)
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QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 5	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.02	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.05	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.05	ME-MS81 Nd ppm 0.1
DUPLICATES																
THRE035		4.8	2.2	14	0.08	0.67	0.54	0.05	0.4	0.33	9.19	0.17	1.1	0.12	4.74	1.0
DUP		5.0	2.6	15	0.09	0.70	0.63	0.04	0.3	0.36	8.97	0.16	1.3	0.15	4.64	1.3
Target Range - Lower Bound		4.2	2.2	9	0.07	0.60	0.53	<0.02	0.2	0.28	8.58	0.15	1.0	0.12	4.41	1.0
Upper Bound		5.6	2.6	20	0.10	0.77	0.64	0.07	0.5	0.41	9.58	0.18	1.4	0.15	4.97	1.3
THRE050		4.3	2.0	12	0.10	0.45	0.39	0.03	0.3	0.27	9.27	0.12	1.0	0.12	3.74	1.0
DUP		4.2	2.1	10	0.08	0.46	0.41	0.03	0.2	0.23	9.05	0.11	1.2	0.10	3.48	0.8
Target Range - Lower Bound		3.5	1.8	<5	0.08	0.38	0.35	<0.02	<0.1	0.19	8.65	0.10	0.9	0.09	3.38	0.8
Upper Bound		5.0	2.3	17	0.10	0.53	0.45	0.04	0.4	0.31	9.67	0.13	1.3	0.13	3.84	1.0
THRE069		9.4	4.6	299	0.59	0.91	0.64	0.06	8.8	0.48	6.58	0.19	3.2	0.16	7.39	2.0
DUP		8.9	5.3	281	0.61	0.90	0.72	0.06	9.3	0.60	6.44	0.22	4.4	0.18	7.80	2.3
Target Range - Lower Bound		8.2	4.6	271	0.56	0.81	0.62	0.04	8.5	0.46	6.13	0.18	3.5	0.15	7.17	1.9
Upper Bound		10.1	5.3	310	0.64	1.00	0.74	0.08	9.6	0.62	6.89	0.23	4.1	0.19	8.02	2.4
ORIGINAL		1050	42.8	32	1.82	2.03	0.98	0.71	19.5	2.68	3.78	0.40	22.7	0.13	4.73	17.6
DUP		1065	39.0	29	1.88	1.96	0.95	0.77	21.1	2.67	3.56	0.40	20.9	0.13	4.58	15.5
Target Range - Lower Bound		1005	38.8	24	1.75	1.85	0.89	0.68	19.2	2.49	3.44	0.37	20.6	0.11	4.37	15.6
Upper Bound		1110	43.0	37	1.95	2.14	1.04	0.80	21.4	2.86	3.90	0.43	23.0	0.15	4.94	17.5



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Page: 3 - B
Total # Pages: 3 (A - C)
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QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.2	0.5	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.01	0.05	5	0.5	0.1	
DUPLICATES																	
THRE035		0.22	0.7	1.9	0.26	0.7	3.0	0.4	0.07	0.96	0.16	0.16	0.92	9	7.2	4.6	
DUP		0.29	0.7	2.5	0.27	0.8	3.3	0.4	0.09	1.12	0.16	0.14	0.93	6	0.7	4.8	
Target Range – Lower Bound		0.22	0.5	1.6	0.22	<0.5	2.9	0.3	0.07	0.94	0.14	0.13	0.83	<5	3.3	4.4	
Upper Bound		0.29	0.9	2.8	0.31	1.0	3.4	0.5	0.09	1.14	0.18	0.17	1.02	10	4.6	5.0	
THRE050		0.22	0.6	2.4	0.28	0.5	1.2	0.3	0.04	1.04	0.11	0.11	0.82	5	1.0	3.3	
DUP		0.26	0.7	1.8	0.21	<0.5	0.9	0.3	0.05	1.04	0.10	0.02	0.80	6	1.0	3.2	
Target Range – Lower Bound		0.21	0.4	1.5	0.20	<0.5	0.9	0.2	0.03	0.94	0.09	0.05	0.72	<5	<0.5	3.0	
Upper Bound		0.27	0.9	2.7	0.29	1.0	1.2	0.4	0.06	1.14	0.12	0.08	0.90	10	1.6	3.5	
THRE069		0.55	2.7	3.7	0.40	1.7	4.2	0.7	0.13	4.31	0.25	0.11	1.44	71	0.9	6.3	
DUP		0.65	2.7	3.7	0.43	2.0	3.7	0.6	0.13	4.73	0.27	0.07	1.48	74	1.0	6.2	
Target Range – Lower Bound		0.55	2.4	3.0	0.36	1.3	3.7	0.5	0.11	4.24	0.24	0.08	1.34	64	<0.5	5.8	
Upper Bound		0.65	3.0	4.4	0.47	2.4	4.2	0.8	0.15	4.80	0.28	0.10	1.58	81	1.0	6.7	
ORIGINAL		4.77	56.7	8.1	3.29	1.4	389	0.5	0.40	6.05	0.21	0.09	0.83	52	2.0	11.5	
DUP		4.49	56.1	7.4	3.05	1.3	384	0.4	0.39	5.50	0.21	0.10	0.85	52	2.0	11.3	
Target Range – Lower Bound		4.38	53.4	6.9	2.98	0.8	367	0.3	0.37	5.44	0.19	0.08	0.75	44	1.4	10.7	
Upper Bound		4.88	59.4	8.6	3.36	1.9	406	0.6	0.42	6.11	0.23	0.11	0.93	60	2.6	12.1	



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Page: 3 – C
Total # Pages: 3 (A – C)
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QC CERTIFICATE OF ANALYSIS PH22245540

Sample Description	Method Analyte Units LOD	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 1
DUPLICATES			
THRE035		0.69	379
DUP		0.68	380
Target Range – Lower Bound		0.62	360
Upper Bound		0.75	399
THRE050		0.55	397
DUP		0.60	389
Target Range – Lower Bound		0.52	372
Upper Bound		0.63	414
THRE069		0.98	250
DUP		0.83	256
Target Range – Lower Bound		0.83	239
Upper Bound		0.98	267
ORIGINAL		0.91	146
DUP		0.76	141
Target Range – Lower Bound		0.76	135
Upper Bound		0.91	152



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Page: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 13-OCT-2022

Account: VENMIN

Project: Brothers

QC CERTIFICATE OF ANALYSIS PH22245540

	CERTIFICATE COMMENTS			
Applies to Method:	LABORATORY ADDRESSES			
	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara WA, Australia			
	BAG-01	CRU-21	CRU-31	CRU-QC
	LEV-01	LOG-22	LOG-24	ME-MS81
	PUL-32	PUL-QC	SPL-22Y	STDINS-01
	WEI-21			