



Australian Laboratory Services Pty. Ltd.

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Accreditation No: 825, Corporate Site No: 818.

QC CERTIFICATE BU17058823

Project: 29-3-17

This report is for 68 Crushed Rock samples submitted to our lab in Burnie, TAS,
Australia on 30-MAR-2017.

The following have access to data associated with this certificate:

SEAN WESTBROOK

KENT WIGHTON

To: KINGFISHER EXPLORATION PTY LTD
ATTN: SEAN WESTBROOK
15 RICHARDS AVE
DODGES FERRY TAS 7173

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 *****

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Finalized Date: 13-APR-2017

This copy reported on 18-APR-2017

Account: KINEXP

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
BAG-01	Bulk Master for Storage
CRU-21	Crush entire sample >70% -6 mm
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA26	Ore Grade Au 50g FA AA finish AAS

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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QC CERTIFICATE OF ANALYSIS BU17058823

Sample Description	Method Analyte Units LOR	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
STANDARDS																
LEA-16		0.52														
Target Range - Lower Bound		0.46														
Upper Bound		0.54														
OGGeo08			18.75	6.99	118.5	920	3.14	10.20	2.26	20.1	73.2	102.5	80	11.40	8450	5.34
Target Range - Lower Bound			18.15	6.07	106.0	700	2.59	9.44	1.98	16.70	64.8	87.2	78	9.85	7800	4.81
Upper Bound			22.2	7.44	130.0	980	3.27	11.55	2.44	20.5	79.2	107.0	98	12.15	8980	5.91
OREAS 215		3.55														
Target Range - Lower Bound		3.32														
Upper Bound		3.76														
OREAS-45e			0.35	6.67	17.8	250	0.51	0.28	0.06	0.04	25.2	52.0	957	1.38	768	23.8
Target Range - Lower Bound			0.27	6.09	14.5	200	0.49	0.24	0.04	<0.02	21.1	51.2	880	1.08	725	21.7
Upper Bound			0.35	7.47	18.1	300	0.75	0.32	0.09	0.07	25.9	62.8	1080	1.44	835	26.5
OxP116		15.60														
Target Range - Lower Bound		14.00														
Upper Bound		15.85														
SL76		5.96														
Target Range - Lower Bound		5.59														
Upper Bound		6.33														
BLANKS																
BLANK		<0.01														
BLANK		<0.01														
BLANK		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Target Range - Lower Bound			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound			0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02



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QC CERTIFICATE OF ANALYSIS BU17058823

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
STANDARDS																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		18.90	0.46	3.0	1.495	2.91	37.5	35.2	1.28	507	927	1.82	18.0	8820	860	7400
Target Range - Lower Bound		16.05	0.25	2.5	1.320	2.59	31.0	29.7	1.11	447	841	1.62	15.4	8000	760	6520
Upper Bound		19.75	0.49	3.3	1.620	3.19	39.0	36.7	1.38	557	1030	2.00	19.0	9770	950	7970
OREAS 215																
Target Range - Lower Bound																
Upper Bound																
OREAS-45e		16.10	0.94	3.5	0.105	0.32	12.2	5.8	0.14	538	2.32	0.06	7.2	454	340	16.2
Target Range - Lower Bound		14.80	0.76	2.7	0.084	0.28	9.4	5.7	0.13	490	2.11	0.04	6.0	408	300	15.9
Upper Bound		18.20	1.05	3.5	0.114	0.37	12.6	7.4	0.18	610	2.69	0.08	7.6	500	380	20.5
OxP116																
Target Range - Lower Bound																
Upper Bound																
SL76																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
Target Range - Lower Bound		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0



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QC CERTIFICATE OF ANALYSIS BU17058823

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
STANDARDS																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		199.5	1.400	2.87	27.2	10.8	13	14.0	256	1.31	0.19	18.90	0.401	1.80	5.3	88
Target Range - Lower Bound		164.5	1.285	2.51	22.8	9.2	8	12.5	224	1.19	0.09	16.90	0.353	1.43	4.5	77
Upper Bound		201	1.575	3.09	31.0	11.4	14	15.7	274	1.57	0.31	20.7	0.443	1.98	5.8	97
OREAS 215																
Target Range - Lower Bound																
Upper Bound																
OREAS-45e		21.3	<0.002	0.05	1.11	86.0	4	1.5	17.1	0.62	0.19	11.75	0.549	0.16	2.1	310
Target Range - Lower Bound		19.0	<0.002	0.02	0.80	83.6	<1	0.9	14.1	0.43	0.07	11.60	0.498	0.10	2.1	289
Upper Bound		23.4	0.004	0.07	1.20	102.5	5	1.8	17.7	0.69	0.28	14.20	0.620	0.21	2.8	355
OxP116																
Target Range - Lower Bound																
Upper Bound																
SL76																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2



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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS					
LEA-16					
Target Range - Lower Bound					
Upper Bound					
OGGeo08		4.7	25.4	7190	106.0
Target Range - Lower Bound		3.9	21.1	6500	78.6
Upper Bound		5.4	26.0	7950	107.5
OREAS 215					
Target Range - Lower Bound					
Upper Bound					
OREAS-45e		1.2	8.4	44	113.5
Target Range - Lower Bound		0.8	6.7	40	93.0
Upper Bound		1.4	8.5	53	127.0
OxP116					
Target Range - Lower Bound					
Upper Bound					
SL76					
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK					
BLANK					
BLANK					
Target Range - Lower Bound					
Upper Bound					
BLANK		<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5
Upper Bound		0.2	0.2	4	1.0



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Sample Description	Method Analyte Units LOR	Au-AA26 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
DUPLICATES																
ORIGINAL		1.04														
DUP		1.09														
Target Range - Lower Bound		1.00														
Upper Bound		1.13														
ORIGINAL		<0.01														
DUP		0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
ORIGINAL		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
GR066		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
GR067			0.04	7.30	31.8	170	20.6	1.24	0.28	<0.02	32.5	2.6	11	22.4	4.2	1.90
DUP			0.01	6.78	29.7	160	18.90	1.27	0.26	0.02	30.8	2.4	10	20.2	3.7	1.76
Target Range - Lower Bound			<0.01	6.68	29.0	140	18.70	1.18	0.25	<0.02	30.1	2.3	9	20.2	3.6	1.73
Upper Bound			0.04	7.40	32.5	190	20.8	1.33	0.29	0.04	33.2	2.7	12	22.4	4.3	1.93
ORIGINAL		4.69														
DUP		4.57														
Target Range - Lower Bound		4.39														
Upper Bound		4.87														
ORIGINAL		17.15														
DUP		16.35														
Target Range - Lower Bound		15.90														
Upper Bound		17.60														
ORIGINAL		8.68														
DUP		7.87														
Target Range - Lower Bound		7.85														
Upper Bound		8.70														



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Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
GR066 DUP Target Range - Lower Bound Upper Bound															
GR067 DUP Target Range - Lower Bound Upper Bound	28.2 25.6 25.5 28.3	0.13 0.13 0.07 0.19	2.7 2.5 2.4 2.8	0.192 0.172 0.168 0.196	4.60 4.22 4.18 4.64	15.1 14.1 13.4 15.8	99.0 98.0 93.4 103.5	0.15 0.14 0.13 0.16	277 259 250 286	0.71 0.75 0.64 0.82	1.99 1.85 1.81 2.03	16.9 15.8 15.4 17.3	5.3 4.9 4.6 5.6	800 740 720 820	27.2 25.0 24.3 27.9
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															



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Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
GR066 DUP Target Range - Lower Bound Upper Bound																
GR067 DUP Target Range - Lower Bound Upper Bound		480 440 437 483	<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.19 0.18 0.12 0.25	5.3 4.9 4.7 5.5	1 1 <1 2	21.0 18.7 18.7 21.0	47.2 42.3 42.3 47.2	4.48 4.05 4.00 4.53	<0.05 <0.05 <0.05 0.10	10.80 10.00 9.87 10.95	0.105 0.097 0.091 0.111	2.63 2.43 2.32 2.74	11.1 10.5 10.2 11.4	12 11 10 13
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES			
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
GR066 DUP Target Range - Lower Bound Upper Bound					
GR067 DUP Target Range - Lower Bound Upper Bound		9.3 8.5 8.1 9.7	18.3 16.6 16.5 18.4	66 61 58 69	65.3 61.9 59.9 67.3
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
ORIGINAL DUP Target Range - Lower Bound Upper Bound					
ORIGINAL DUP Target Range - Lower Bound Upper Bound					



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DUPLICATES																
ORIGINAL			0.08	8.46	11.0	610	3.23	0.43	0.89	0.04	95.0	17.0	69	12.30	30.8	3.98
DUP			0.07	6.75	10.2	560	3.01	0.42	0.79	0.04	62.1	16.6	66	10.10	29.0	3.65
Target Range - Lower Bound			0.06	7.21	9.9	530	2.91	0.39	0.79	<0.02	74.6	15.9	63	10.60	28.7	3.61
Upper Bound			0.09	8.00	11.3	640	3.33	0.46	0.89	0.06	82.5	17.7	72	11.80	31.1	4.02
ORIGINAL		1.03														
DUP		0.74														
Target Range - Lower Bound		0.83														
Upper Bound		0.94														



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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
		DUPLICATES														
ORIGINAL		25.7	0.20	4.0	0.074	3.25	48.7	43.3	1.42	468	0.17	0.61	15.0	38.3	750	26.8
DUP		23.1	0.20	3.7	0.072	3.00	29.6	42.0	1.24	438	0.19	0.59	14.3	37.3	670	26.7
Target Range - Lower Bound		23.1	0.14	3.6	0.064	2.96	36.7	40.3	1.25	425	0.12	0.56	13.8	35.7	660	24.9
Upper Bound		25.7	0.26	4.1	0.082	3.29	41.6	45.0	1.41	481	0.24	0.64	15.5	39.9	760	28.6
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS BU17058823

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
		DUPLICATES														
ORIGINAL		213	<0.002	0.11	1.62	15.7	1	4.8	60.9	1.13	0.05	17.85	0.395	1.05	3.2	100
DUP		148.5	<0.002	0.11	1.52	12.5	1	4.5	52.1	1.12	0.05	12.70	0.375	1.02	3.0	96
Target Range - Lower Bound		171.5	<0.002	0.09	1.40	13.3	<1	4.2	53.5	1.02	<0.05	14.50	0.361	0.94	2.8	92
Upper Bound		190.0	0.004	0.13	1.74	14.9	2	5.1	59.5	1.23	0.10	16.05	0.409	1.13	3.4	104
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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



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ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Project: 29-3-17

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Finalized Date: 13-APR-2017
Account: KINEXP

QC CERTIFICATE OF ANALYSIS BU17058823

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES			
	2.7	21.6	102	145.5	
	2.6	15.8	98	128.5	
	2.4	17.7	93	129.5	
	2.9	19.7	107	144.5	
ORIGINAL DUP Target Range - Lower Bound Upper Bound					

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

Project: 29-3-17

QC CERTIFICATE OF ANALYSIS BU17058823

	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61			
	ACCREDITATION COMMENTS			
Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist. ME-MS61			
	LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA26			
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia ME-MS61			
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 WEI-21	CRU-21	LEV-01	PUL-32