



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

Australian Laboratory Services Pty Ltd

32 Shand Street

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CERTIFICATE AD07075646

Project:

P.O. No.: 013

This report is for 185 Drill Core samples submitted to our lab in Adelaide, SA, Australia on 19-JUL-2007.

The following have access to data associated with this certificate:

ALAN HITCHCOX

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
PUL-23	Pulv Sample - Split/Retain
SPL-21	Split sample - riffle splitter
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
LEV-01	Waste Disposal Levy

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-XRF05	Trace Level XRF Analysis	XRF
ME-ICP41s	Up to 34 Element AR - ICP-AES	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

To: **MINEMAKERS LITMITED**
ATTN: ALAN HITCHCOX
PO BOX 1704
WEST PERTH WA

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.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI-21	ME-XRF05	ME-XRF05	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	Zn-OG46	PUL-QC	ME-XRF05	ME-XRF05	Au-AA25
		Recvd Wt. kg	Sn ppm	W ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Zn %	Pass75um %	Mo ppm	Bi ppm	Au ppm
		0.02	5	10	2	1	2	2	0.01	0.01	4	4	0.01
SMD31 34 - 36		1.30	14	20	6	17	4	25			<4	4	<0.01
SMD31 36 - 38		0.98	<5	20	2	3	4	22			<4	<4	<0.01
SMD31 38 - 40		1.11	10	30	2	12	2	17			<4	<4	<0.01
SMD31 40 - 41.4		0.76	<5	30	<2	17	2	12			<4	<4	<0.01
SMD5 41 - 43		1.72	1330	690	124	160	9	89		96.0	19	574	0.04
SMD5 43 - 45		1.58	1355	1330	59	306	7	62			33	497	0.01
SMD5 45 - 46		0.90	1530	900	22	58	12	69			46	943	0.03
SMD9 90 - 91.5		1.03	20	30	2	10	23	8			<4	16	<0.01
SMD6 21 - 23		1.08	1185	400	149	129	6	295			<4	350	0.02
SMD6 23 - 25		2.09	1995	800	179	56	6	153			<4	439	0.04
SMD6 25 - 27		1.79	1950	480	127	50	12	111			<4	418	0.01
SMD6 27 - 29		1.06	1905	510	88	25	7	124			<4	289	0.02
SMD6 29 - 31		1.31	1765	470	103	26	11	120			<4	621	0.05
SMD6 31 - 33		1.34	1520	790	44	145	8	114			8	539	0.04
SMD6 33 - 35		1.43	2180	740	83	61	8	109			8	681	1.13
SMD6 35 - 37		1.41	2500	650	69	21	8	113			13	683	0.07
SMD6 37 - 39		0.92	3110	550	92	34	9	104			23	384	0.02
SMD6 39 - 41		1.36	2370	1100	59	71	11	81			66	643	0.07
SMD6 41 - 43		1.47	1285	2090	68	112	8	105			159	620	0.06
SMD6 43 - 45		1.45	1425	1030	146	51	12	143			68	561	0.04
SMD6 45 - 47		1.42	1395	650	180	7	8	126			11	648	0.08
SMD6 47 - 49		1.29	1200	850	148	6	6	159			45	641	0.07
SMD6 49 - 51		1.27	1090	910	144	20	7	185			19	583	0.04
SMD6 51 - 53		1.55	908	750	36	3	6	163			16	666	0.08
SMD6 53 - 55		1.62	1340	860	173	55	7	167			15	375	0.04
SMD6 55 - 57		1.53	1800	860	60	54	8	122			39	558	0.08
SMD6 57 - 59		1.69	1525	1090	96	52	7	127			187	546	0.10
SMD6 59 - 61		1.32	1420	1810	91	69	7	120			113	485	0.07
SMD6 61 - 63		1.29	1565	1670	145	55	7	140			82	469	0.07
SMD6 63 - 65		1.27	1410	580	194	41	9	128			57	423	0.03
SMD6 65 - 67		1.33	1670	640	79	18	7	136			48	229	0.03
SMD6 67 - 69		1.30	753	670	32	80	13	165			75	172	0.02
SMD6 69 - 71		1.23	655	1570	20	3	23	159			97	69	0.03
SMD6 71 - 73		1.23	499	1600	9	3	13	154			33	25	<0.01
SMD6 73 - 75		1.37	994	480	27	12	11	110			27	78	0.01
SMD6 75 - 77		1.38	1665	1020	24	136	16	1200			47	896	0.09
SMD6 77 - 79		1.35	1565	1100	23	77	8	86			56	117	0.03
SMD6 79 - 81		1.21	1495	1560	45	62	11	1690			58	209	0.03
SMD6 81 - 83		1.17	1225	1390	39	101	57	404			107	1845	0.04
MOSTD029		0.10	31	260	25	43	8	49			53	25	



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Sample Description	Method Analyte Units LOR	WEI-21	ME-XRF05	ME-XRF05	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	Zn-OG46	PUL-QC	ME-XRF05	ME-XRF05	Au-AA25
		Recvd Wt. kg	Sn ppm	W ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Zn %	Pass75um %	Mo ppm	Bi ppm	Au ppm
		0.02	5	10	2	1	2	2	0.01	0.01	4	4	0.01
SMD10 30 - 32		2.49	11	30	14	27	94	386			<4	8	0.01
SMD10 32 - 34.5		2.48	12	40	4	23	11	102			<4	8	<0.01
SMD10 36.5 - 39		1.74	242	80	1355	98	1510	4740			<4	104	0.02
SMD12 35 - 37		1.11	5	40	8	25	40	94			<4	4	0.01
SMD12 37 - 39		0.96	15	40	8	20	30	68	99.0		<4	<4	0.01
SMD12 39 - 41		1.36	6	30	15	8	39	77			<4	8	<0.01
SMD12 41 - 43		0.91	<5	20	2	5	19	22			<4	6	<0.01
SMD12 43 - 45		1.18	<5	20	2	7	13	12			<4	4	<0.01
SMD12 45 - 51		1.87	<5	20	7	3	8	17			<4	4	<0.01
SMD12 51 - 53		2.14	<5	20	3	2	9	20			<4	<4	<0.01
SMD12 53 - 55		1.83	<5	20	<2	2	10	8			<4	<4	<0.01
SMD12 55 - 57		2.24	<5	20	2	1	6	3			<4	<4	0.01
SMD12 57 - 59		2.38	<5	20	2	5	6	5			<4	6	<0.01
SMD12 59 - 61		2.12	<5	20	5	3	11	6			<4	<4	<0.01
SMD12 61 - 63		2.30	<5	20	3	3	4	7			<4	12	0.01
SMD12 63 - 65		2.28	<5	30	<2	3	5	7			<4	5	0.01
SMD12 65 - 67		2.14	<5	20	4	3	3	7			<4	<4	<0.01
SMD12 67 - 69		2.41	<5	20	2	3	6	4			<4	4	<0.01
SMD12 69 - 71		2.13	<5	20	2	2	9	11			<4	6	0.01
SMD12 71 - 73		2.09	<5	20	<2	2	10	21			<4	4	<0.01
SMD12 73 - 75		2.17	<5	20	2	2	7	12			<4	<4	0.01
SMD12 75 - 77		2.18	<5	30	3	3	15	36			<4	7	<0.01
SMD12 77 - 79		2.12	<5	30	5	3	9	25			<4	5	0.01
SMD12 79 - 81		2.23	6	20	3	3	12	12			<4	4	0.01
SMD12 81 - 83		2.15	<5	30	4	4	9	8			<4	<4	0.01
SMD12 83 - 85		2.09	<5	20	<2	6	7	6			<4	<4	0.01
SMD12 85 - 87		2.25	<5	20	<2	2	4	24			<4	7	<0.01
SMD12 87 - 89		2.10	<5	30	2	3	7	69			<4	4	0.01
SMD12 89 - 91		1.85	<5	20	2	4	6	10			<4	9	<0.01
SMD12 1112.5 - 115		1.89	19	20	11	12	6	18			<4	21	<0.01
SMD21 100 - 102		2.37	<5	20	9	3	11	64			<4	4	<0.01
SMD21 102 - 104		2.48	<5	20	13	4	18	93			<4	<4	0.02
SMD21 104 - 106		2.27	44	20	8	6	40	137			<4	9	0.01
SMD21 106 - 108		1.47	201	60	8	4	42	312			<4	33	<0.01
SMD21 108 - 110		1.37	222	60	14	17	22	129			<4	27	0.01
SMD21 110 - 112		1.44	364	50	28	2	59	72			<4	126	0.04
SMD21 112 - 114		1.51	705	110	281	78	33	1790			<4	177	0.04
SMD21 114 - 116		1.36	669	60	164	42	32	112			6	148	<0.01
SMD21 116 - 118		1.62	757	310	107	59	18	72			15	413	0.04
MOSTD293		0.10	31	2390	35	141	17	52			148	55	



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Sample Description	Method Analyte Units LOR	WEI-21	ME-XRF05	ME-XRF05	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	Zn-OG46	PUL-QC	ME-XRF05	ME-XRF05	Au-AA25
		Recvd Wt. kg	Sn ppm	W ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Zn %	Pass75um %	Mo ppm	Bi ppm	Au ppm
		0.02	5	10	2	1	2	2	0.01	0.01	4	4	0.01
SMD21 118 - 120		1.64	595	80	118	5	15	84			<4	51	<0.01
SMD21 120 - 122		1.73	966	360	41	10	33	65			6	398	0.03
SMD22 80 - 82		1.24	336	80	9	5	21	23			<4	50	0.01
SMD22 82 - 84		1.37	165	60	8	2	13	22			<4	14	0.01
SMD22 84 - 86		1.34	120	50	10	11	239	593		96.0	<4	306	0.04
SMD22 86 - 88		1.36	108	50	5	4	374	589			<4	21	<0.01
SMD22 88 - 90		1.36	49	40	110	62	25	370			<4	49	0.02
SMD22 90 - 92		1.88	169	140	36	126	33	642			<4	94	<0.01
SMD22 92 - 94		2.17	<5	10	2	29	36	48			<4	4	0.01
SMD22 94 - 96		2.31	<5	<10	6	18	17	28			<4	4	0.01
SMD22 96 - 98		2.12	8	10	8	25	10	22			<4	<4	0.01
SMD22 98 - 100		2.25	6	<10	4	21	12	19			<4	<4	0.01
SMD22 100 - 102		2.41	<5	20	5	29	19	23			<4	6	<0.01
SMD41 0 - 9		2.87	1305	740	93	39	5	278			8	386	0.05
SMD41 9 - 11		2.67	1295	580	227	20	8	118			9	557	0.05
SMD41 11 - 13		3.36	1475	600	139	79	7	246			8	493	0.05
SMD41 13 - 15		2.84	1595	620	105	67	8	177			7	751	0.09
SMD41 15 - 17		3.92	1425	460	155	13	25	205			<4	573	0.07
SMD41 17 - 19		4.97	3320	930	134	3	8	132			8	837	0.12
SMD41 19 - 21		4.28	1795	910	78	5	8	123			22	2170	0.22
SMD41 23 - 25		3.53	3480	1060	109	1	7	176			20	670	0.07
SMD41 25 - 27		3.87	1460	860	160	5	9	187			<4	551	0.07
SMD41 27 - 29		3.73	1990	960	176	13	12	168			<4	566	0.08
SMD41 29 - 31		3.18	943	220	91	3	16	134			23	1830	1.47
SMD41 31 - 33		3.74	684	720	30	13	52	81			10	2160	0.50
SMD41 33 - 35		3.74	628	100	11	3	24	93			<4	88	0.02
SMD41 35 - 37		4.08	407	1120	10	8	31	98			23	1360	0.44
SMD41 37 - 39		4.15	357	250	7	3	30	94			5	224	0.07
SMD41 39 - 41		4.01	463	110	8	6	30	96			<4	712	0.13
SMD41 41 - 43		5.19	445	110	7	2	20	69			<4	45	0.02
SMD41 43 - 45		3.86	480	1560	8	2	20	81			29	28	0.01
SMD41 45 - 47		4.72	673	230	31	2	21	58			<4	108	0.01
SMD41 47 - 49		4.27	515	3600	36	5	17	63			62	41	<0.01
SMD41 49 - 51		4.60	557	310	48	2	19	70			9	42	0.01
SMD41 51 - 53		3.73	378	290	16	2	19	59			23	22	0.01
SMD41 53 - 55		4.80	472	130	9	3	20	54			<4	6	0.01
SMD41 55 - 57.7		5.62	425	320	9	3	29	108			10	7	<0.01
SMD41 59.2 - 61		3.57	371	270	20	2	17	63			59	22	<0.01
SMD41 61 - 63		4.05	345	90	20	3	23	68			<4	11	0.01
MOSTD440		0.10	26	3580	37	123	20	46			141	50	



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Sample Description	Method Analyte Units LOR	WEI-21	ME-XRF05	ME-XRF05	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	Zn-OG46	PUL-QC	ME-XRF05	ME-XRF05	Au-AA25
		Recvd Wt. kg	Sn ppm	W ppm	As ppm	Cu ppm	Pb ppm	Zn ppm	Zn %	Pass75um %	Mo ppm	Bi ppm	Au ppm
		0.02	5	10	2	1	2	2	0.01	0.01	4	4	0.01
SMD41 63 - 65		4.12	357	150	10	3	26	75			<4	27	0.01
SMD41 65 - 67		3.85	421	270	10	4	32	82			5	12	<0.01
SMD41 67 - 69		1.32	153	2540	8	14	10	117			279	<4	0.01
SMD41 69 - 71		2.43	434	3280	10	7	10	158			433	<4	0.01
SMD41 71 - 73		4.97	1000	310	10	6	15	80		94.0	9	11	0.01
SMD41 73 - 75		1.53	570	260	8	3	18	447			<4	19	<0.01
SMD41 75 - 77		3.76	773	220	9	3	18	114			<4	11	0.01
SMD41 77 - 79		4.84	702	200	6	2	16	104			12	11	0.01
SMD41 79 - 81		4.42	662	130	5	2	19	100			16	20	0.02
SMD41 81 - 83		4.65	600	220	7	3	24	92			246	33	0.03
SMD41 83 - 85		5.86	1005	110	27	3	23	122			<4	112	0.08
SMD41 85 - 87		5.63	1090	100	27	3	15	92			<4	61	0.02
SMD41 87 - 89		4.84	1095	300	160	445	21	>10000	2.94		25	70	0.06
SMD41 89 - 91		4.58	883	280	94	3	19	222			33	64	0.01
SMD41 91 - 93		3.79	1060	190	58	66	14	178			25	474	0.11
SMD41 93 - 95		3.89	959	230	59	61	17	1620			<4	164	0.04
SMD41 95 - 97.6		5.51	838	170	42	3	15	129			35	48	0.01
SMD41 98.6 - 100		2.93	838	250	24	171	18	124			<4	616	0.16
SMD42 0 - 3.6		2.97	9	10	114	25	19	36			<4	<4	<0.01
SMD42 3.6 - 8		1.68	<5	20	75	62	24	76			<4	8	<0.01
SMD42 8 - 10		3.11	<5	10	25	6	8	105			<4	<4	0.01
SMD42 10 - 12		3.08	<5	10	6	1	8	42			<4	<4	0.01
SMD42 12 - 14		3.15	<5	30	3	3	7	36			<4	4	0.02
SMD42 14 - 16		2.06	<5	10	9	9	16	30			<4	4	<0.01
SMD42 16 - 18		2.06	7	<10	21	32	25	34			<4	7	<0.01
SMD42 18 - 20		1.80	<5	10	21	21	38	42			<4	<4	<0.01
SMD42 20 - 22		2.03	<5	10	17	10	11	25			<4	4	0.01
SMD42 22 - 24		2.07	<5	10	11	9	18	20			<4	<4	<0.01
SMD42 24 - 26		2.05	9	<10	10	46	32	52			<4	<4	<0.01
SMD42 26 - 28		1.55	<5	10	10	55	33	45			<4	<4	<0.01
SMD42 28 - 30		1.75	<5	10	12	12	41	86			5	4	0.01
SMD42 30 - 32		2.06	9	10	8	5	30	80			<4	4	<0.01
SMD42 32 - 34		2.34	7	20	159	61	33	74			<4	<4	0.03
SMD42 34 - 36		1.01	5	10	17	31	10	23			<4	4	<0.01
SMD42 36 - 38		1.95	<5	<10	24	12	6	32			<4	5	0.01
SMD42 38 - 40		2.02	<5	10	19	23	14	66			<4	<4	<0.01
SMD42 40 - 42		2.17	<5	10	23	46	38	38			<4	6	0.01
SMD42 42 - 44		1.64	8	10	21	129	36	46			<4	9	0.02
SMD42 44 - 46		1.84	<5	10	20	36	10	23			<4	5	0.01
SMD42 46 - 48		2.00	<5	10	43	64	12	14			<4	<4	<0.01



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-XRF05 Sn ppm	ME-XRF05 W ppm	ME-ICP41s As ppm	ME-ICP41s Cu ppm	ME-ICP41s Pb ppm	ME-ICP41s Zn ppm	Zn-OG46 Zn %	PUL-QC Pass75um %	ME-XRF05 Mo ppm	ME-XRF05 Bi ppm	Au-AA25 Au ppm
		0.02	5	10	2	1	2	2	0.01	0.01	4	4	0.01
SMD42 48 - 50		1.78	<5	10	9	27	11	20			<4	8	<0.01
SMD42 50 - 52		2.44	<5	<10	34	12	9	27			<4	<4	<0.01
SMD42 52 - 54		2.03	<5	10	34	4	8	37			<4	<4	<0.01
SMD42 54 - 56		2.00	<5	10	36	14	22	34			<4	8	<0.01
SMD42 56 - 58		2.07	<5	20	41	24	26	93		94.0	<4	<4	<0.01
SMD42 58 - 60		1.37	<5	40	14	5	27	53			<4	<4	<0.01
SMD42 60 - 62		1.07	<5	20	21	10	25	51			<4	6	<0.01
SMD42 62 - 64		1.63	<5	20	28	33	18	50			<4	8	<0.01
SMD42 64 - 66		1.89	<5	60	26	22	21	50			<4	5	<0.01
SMD42 66 - 70		0.89	<5	30	11	24	28	52			<4	<4	<0.01
SMD42 70 - 72		1.61	<5	30	17	37	25	74			7	<4	<0.01
SMD42 72 - 74		1.39	<5	10	25	95	18	57			<4	4	<0.01
SMD42 74 - 76		1.73	<5	10	19	87	13	49			<4	6	<0.01
SMD42 76 - 78		2.09	<5	10	35	106	20	22			6	4	<0.01
SMD42 78 - 80		2.31	<5	10	33	78	12	15			<4	7	<0.01
SMD42 80 - 82		1.49	<5	10	19	45	13	19			<4	<4	<0.01
SMD42 82 - 84		1.13	<5	50	32	27	31	48			<4	<4	<0.01
SMD42 84 - 86		1.52	<5	20	18	26	26	46			<4	<4	<0.01
SMD42 86 - 88		2.37	<5	20	111	39	20	45			<4	4	<0.01
SMD42 88 - 90		1.82	<5	10	36	38	17	8		96.0	<4	5	<0.01
SMD42 90 - 92		2.14	<5	10	32	36	27	20			<4	9	<0.01
SMD42 92 - 94		2.01	7	20	29	69	22	60			<4	4	<0.01
SMD42 94 - 96		2.22	<5	<10	26	77	15	8			<4	<4	0.01
SMD42 96 - 98		2.08	<5	10	32	96	21	30			<4	<4	<0.01
SMD42 98 - 100		2.03	<5	10	28	121	38	183			<4	<4	0.01