



Australian Laboratory Services Pty. Ltd.
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CERTIFICATE BU12091184

Project: Moonmin Zeehan
 P.O. No.: 26- 04- 12
 This report is for 38 Drill Core samples submitted to our lab in Burnie, TAS, Australia
 on 27- APR- 2012.

The following have access to data associated with this certificate:

DAMON ELDER
 PETER ROLLEY

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LEV- 01	Waste Disposal Levy
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 21	Crush entire sample > 70% - 6 mm
STO- 23	Monthly storage charge for pulp
PUL- 23	Pulv Sample - Split/Retain

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: **MOONRAKER MINERALS PTY LTD**
ATTN: PETER ROLLEY
UNIT 1
245 CHURCHILL AVENUE
SUBIACO WA 6008

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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 Total # Pages: 2 (A - B)
 Finalized Date: 14- MAY-2012
 Account: MOONMIN

Project: Moonmin Zeehan

CERTIFICATE OF ANALYSIS BU12091184

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 Bi ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115001	0.73	1.1	25	5	0.04	<0.5	<1	49	20	0.28	0.86	0.24	20	8	0.02
115002	1.46	1.1	8	4	0.03	<0.5	<1	28	10	0.38	1.41	0.38	28	2	0.05
115003	1.15	1.0	<5	3	0.03	<0.5	1	25	13	0.24	0.99	0.35	15	1	0.07
115004	2.54	1.8	6	19	0.04	<0.5	<1	19	12	0.27	0.74	0.23	21	2	0.04
115005	0.90	1.9	<5	<2	0.02	<0.5	<1	35	8	0.49	2.35	0.41	30	2	0.09
115006	1.98	1.8	<5	<2	0.01	<0.5	<1	32	5	0.55	2.55	0.35	30	<1	0.08
115007	0.92	1.3	<5	3	0.02	<0.5	1	24	8	0.40	1.72	0.40	22	1	0.07
115008	1.26	0.9	<5	3	0.01	<0.5	<1	53	6	0.51	3.51	0.54	23	<1	0.07
115009	0.96	1.4	5	3	0.02	<0.5	2	46	44	0.41	2.07	0.37	46	5	0.07
115010	0.20	1.7	58	<2	0.02	0.5	2	44	125	0.74	0.77	0.24	123	6	0.04
115011	1.56	1.2	20	2	0.01	<0.5	7	34	163	0.29	0.61	0.13	79	14	0.03
115012	1.39	2.3	29	2	0.01	1.1	2	35	179	0.59	0.53	0.18	113	10	0.04
115013	1.09	31.1	174	<2	0.02	9.1	23	57	2880	9.05	0.21	0.18	279	17	0.02
115014	0.45	3.7	68	<2	0.03	13.9	12	23	210	3.59	0.07	0.19	210	6	0.01
115015	0.06	19.7	452	22	0.19	157.5	16	42	1305	12.65	1.81	1.11	1505	4	0.04
115016	2.01	6.8	27	2	0.02	3.5	10	60	245	7.32	1.72	0.28	426	7	0.05
115017	2.70	12.9	101	4	0.02	3.8	21	45	621	13.35	1.40	0.26	613	7	0.04
115018	2.88	23.9	224	<2	0.01	10.6	12	38	154	5.51	2.52	0.35	144	1	0.08
115019	3.05	32.7	372	2	0.02	14.8	35	37	206	10.60	1.67	0.28	172	1	0.05
115020	3.05	33.5	970	5	0.02	33.7	13	27	178	15.60	0.81	0.21	254	1	0.03
115021	1.15	12.3	321	2	0.02	0.8	3	29	230	5.86	1.27	0.22	146	12	0.03
115022	0.53	1.5	36	3	0.01	0.9	1	48	46	1.13	3.64	0.46	47	3	0.06
115023	1.01	1.1	16	<2	0.01	<0.5	1	42	32	0.73	3.24	0.39	36	1	0.06
115024	0.98	1.7	30	2	0.01	0.5	2	42	103	7.38	1.74	0.27	535	2	0.03
115025	1.27	24.8	88	<2	0.01	<0.5	2	40	234	9.60	0.83	0.16	479	2	0.02
115026	1.63	1.2	<5	3	<0.01	<0.5	<1	53	8	0.59	4.18	0.52	19	<1	0.09
115027	1.58	1.3	<5	3	<0.01	<0.5	1	42	12	0.60	3.46	0.42	24	1	0.08
115028	0.97	1.6	<5	47	0.01	<0.5	<1	42	8	0.52	2.88	0.35	27	1	0.07
115029	0.48	1.2	<5	<2	0.01	<0.5	1	50	22	0.75	3.72	0.46	39	2	0.08
115030	0.63	<0.5	<5	3	0.02	<0.5	<1	14	2	0.42	0.05	0.01	49	<1	<0.01
115031	0.54	1.9	16	<2	<0.01	<0.5	1	47	28	2.00	2.82	0.34	49	1	0.07
115032	1.65	2.0	13	3	<0.01	<0.5	1	38	30	1.95	2.43	0.29	45	2	0.06
115033	0.89	1.4	27	<2	<0.01	<0.5	1	43	38	3.44	3.00	0.36	59	1	0.07
115034	2.37	1.5	30	3	<0.01	<0.5	1	41	60	3.08	2.80	0.32	46	1	0.06
115035	0.67	1.8	7	3	<0.01	<0.5	<1	23	31	1.40	1.66	0.19	39	<1	0.04
115036	0.41	1.7	27	<2	<0.01	<0.5	2	25	43	2.93	1.80	0.21	54	1	0.05
115037	0.71	1.3	5	<2	<0.01	<0.5	<1	34	11	1.17	2.54	0.27	34	<1	0.06
115038	1.61	3.0	208	3	0.01	1.8	4	65	46	4.78	1.80	0.20	66	10	0.04



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 Account: MOONMIN

Project: Moonmin Zeehan

minerals

CERTIFICATE OF ANALYSIS BU12091184

Sample Description	Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm
115001		43	2590	7770	118	178	0.12	109	19	0.001	0.001	140	<5	20
115002		17	610	1420	42	79	0.17	55	38			50	5	10
115003		21	460	562	22	98	0.18	46	18			<50	5	10
115004		16	610	1290	28	75	0.13	30	14			<50	<5	10
115005		2	280	621	18	56	0.28	80	11			70	9	10
115006		3	150	101	17	52	0.28	65	10			60	8	10
115007		3	170	177	17	56	0.22	46	8			<50	7	10
115008		4	180	146	27	49	0.32	229	16			70	9	20
115009		29	610	1140	57	64	0.23	146	43			60	7	10
115010		47	3550	>10000	167	218	0.10	56	211	1.595		140	<5	20
115011		60	1810	5940	137	57	0.09	57	96			50	<5	10
115012		66	1640	5950	166	53	0.07	54	743			50	<5	10
115013		92	710	>10000	460	28	0.02	153	959	2.35		<50	<5	10
115014		31	310	>10000	200	12	0.01	31	684	2.89		<50	<5	<10
115015		15	400	>10000	98	12	0.15	55	>10000	3.95		<50	<5	10
115016		44	1190	>10000	162	32	0.13	131	366			70	<5	20
115017		59	1850	>10000	200	40	0.09	143	989			90	<5	30
115018		38	230	>10000	130	44	0.21	75	1260			70	6	20
115019		88	300	>10000	214	43	0.14	104	1860	2.15		60	<5	30
115020		54	170	>10000	195	34	0.07	106	6900	2.03		<50	<5	10
115021		43	420	1390	173	65	0.13	58	170			50	<5	10
115022		32	510	1820	90	43	0.32	87	188			90	9	20
115023		64	890	3190	78	47	0.32	85	353			90	9	20
115024		53	1130	3250	277	45	0.13	240	880			80	<5	10
115025		36	1070	2030	449	48	0.05	204	1000			50	<5	10
115026		7	190	222	15	32	0.37	100	17			70	11	20
115027		6	210	395	33	31	0.33	77	69			90	11	20
115028		4	180	289	16	31	0.30	92	251			80	10	20
115029		5	250	461	33	34	0.34	89	186			90	10	20
115030		3	10	8	<5	4	0.10	2	9			<50	<5	<10
115031		2	250	273	26	31	0.27	89	79			80	9	20
115032		2	210	221	31	29	0.23	75	75			70	7	20
115033		5	410	619	16	32	0.27	74	228			90	8	20
115034		3	320	405	17	33	0.26	72	154			90	9	20
115035		2	150	160	10	24	0.18	39	49			50	6	20
115036		3	220	257	10	20	0.19	44	182			60	7	20
115037		2	230	186	5	36	0.28	62	32			80	10	20
115038		9	120	506	21	20	0.17	44	565			50	6	10



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CERTIFICATE BU12099587

Project: McLeans

P.O. No.:

This report is for 53 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 7- MAY- 2012.

The following have access to data associated with this certificate:

DAMON ELDER

PETER ROLLEY

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: **MOONRAKER MINERALS PTY LTD**
ATTN: PETER ROLLEY
UNIT 1
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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

Project: McLeans



CERTIFICATE OF ANALYSIS BU12099587

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
	0.88	7.0	58	<2	0.01	5.8	3	33	42	1.40	2.38	0.29	75	1	0.07
	4.18	39.0	62	<2	0.01	6.3	3	18	57	0.55	1.34	0.15	51	1	0.03
	0.85	1.3	9	<2	0.01	1.7	10	40	26	0.68	3.42	0.40	84	1	0.07
	1.54	1.2	10	<2	<0.01	1.8	7	42	35	0.59	3.46	0.35	32	1	0.08
	0.56	<0.5	11	<2	<0.01	<0.5	7	44	27	0.60	3.57	0.36	21	1	0.08
	0.42	0.7	<5	<2	<0.01	<0.5	6	42	21	0.63	3.32	0.34	36	1	0.07
	1.79	0.7	<5	<2	0.01	<0.5	4	43	45	0.52	3.48	0.35	24	2	0.09
	2.21	0.8	7	<2	<0.01	<0.5	5	44	14	0.63	3.15	0.34	37	1	0.07
	3.27	0.7	<5	<2	<0.01	<0.5	5	37	30	0.46	3.00	0.32	19	1	0.07
	0.56	<0.5	<5	<2	<0.01	<0.5	5	31	19	0.48	2.66	0.30	26	1	0.06
	2.96	1.4	7	<2	<0.01	3.9	6	40	33	0.57	2.89	0.34	28	1	0.07
	1.66	8.1	56	<2	0.01	44.3	27	40	85	1.87	2.39	0.29	55	1	0.07
	2.38	23.6	154	<2	0.02	128.5	54	38	194	4.67	1.80	0.29	116	1	0.05
	3.14	27.4	302	<2	0.03	212	104	26	216	7.45	0.86	0.20	142	1	0.02
	0.05	18.6	463	<2	0.18	154.5	15	41	1310	12.40	1.75	1.10	1455	4	0.04
	3.67	18.7	285	<2	0.03	162.5	99	27	215	6.75	0.80	0.18	187	2	0.02
	2.95	15.3	143	<2	0.02	121.0	41	39	160	3.89	1.92	0.27	103	1	0.05
	2.92	6.4	173	<2	0.01	41.8	111	29	167	7.36	1.32	0.20	71	2	0.04
	2.59	7.5	214	<2	0.02	83.1	78	40	115	3.76	2.32	0.26	80	1	0.04
	0.60	3.6	124	<2	0.01	37.8	49	40	55	2.28	2.28	0.26	52	2	0.03
	1.47	14.4	107	<2	0.03	25.5	20	41	453	1.82	2.23	0.29	57	2	0.04
	1.20	3.8	58	<2	0.01	18.7	10	35	46	1.15	2.29	0.25	46	1	0.04
	0.93	2.3	5	<2	<0.01	0.7	1	29	16	0.39	1.89	0.20	26	1	0.03
	0.89	2.2	<5	<2	<0.01	<0.5	<1	20	5	0.40	1.52	0.16	30	1	0.03
	0.33	1.7	<5	<2	<0.01	<0.5	<1	28	6	0.76	1.87	0.19	65	1	0.03
	0.33	1.5	11	<2	<0.01	<0.5	1	50	35	0.41	3.67	0.38	20	1	0.06
	1.38	1.3	<5	<2	<0.01	<0.5	<1	36	14	0.33	2.60	0.27	17	1	0.04
	0.45	0.8	7	<2	<0.01	<0.5	20	25	32	0.38	1.84	0.20	28	<1	0.02
	0.40	1.5	17	<2	<0.01	<0.5	5	43	69	0.80	3.11	0.33	39	1	0.05
	0.73	<0.5	<5	<2	0.01	<0.5	<1	15	1	0.36	0.06	0.01	39	<1	<0.01
	0.87	1.2	27	<2	<0.01	<0.5	15	56	59	1.23	3.56	0.36	79	1	0.06
	1.22	1.7	26	<2	0.01	10.1	16	38	100	0.98	2.59	0.27	59	2	0.05
	1.99	2.5	31	<2	0.01	14.0	20	37	83	2.26	2.26	0.25	68	1	0.05
	2.10	1.3	33	<2	0.01	6.9	11	32	97	0.87	2.10	0.22	47	1	0.04
	1.68	<0.5	16	2	<0.01	<0.5	5	19	47	0.42	1.47	0.14	24	<1	0.03
	1.95	0.6	15	2	<0.01	1.8	13	42	24	0.83	3.56	0.37	22	1	0.06
	3.12	<0.5	24	3	<0.01	0.9	20	46	12	1.24	3.73	0.42	57	<1	0.06
	0.87	<0.5	34	<2	<0.01	6.2	25	47	15	1.46	3.91	0.42	80	1	0.06
	0.39	<0.5	24	<2	<0.01	<0.5	33	40	13	1.97	3.33	0.42	34	1	0.05
	1.07	<0.5	20	2	<0.01	1.7	21	34	16	1.41	2.51	0.30	54	1	0.06



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Project: McLeans

Minerals

CERTIFICATE OF ANALYSIS BU12099587

Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm
115039	9	120	3510	166	37	0.23	58	1225			50	7	10
115040	7	90	>10000	782	20	0.15	33	1585		1.590	<50	5	10
115041	14	130	609	30	34	0.30	74	706			60	9	10
115042	16	140	423	46	37	0.33	79	943			60	10	10
115043	16	140	160	13	43	0.35	81	381			70	11	10
115044	10	120	396	15	35	0.30	73	315			60	9	10
115045	18	160	296	11	43	0.34	77	575			60	11	10
115046	8	100	379	13	33	0.29	70	255			60	9	10
115047	7	120	338	10	36	0.30	76	171			60	9	10
115048	7	120	264	11	29	0.28	68	181			60	10	10
115049	13	120	562	18	37	0.28	78	977			70	9	10
115050	48	130	3790	112	41	0.25	72	7250			70	8	20
115051	91	140	>10000	213	37	0.17	77	>10000	2.05	1.105	60	5	20
115052	163	120	>10000	353	33	0.09	68	>10000	4.26	1.370	50	<5	20
115053	15	390	>10000	95	7	0.15	55	>10000	3.99	1.360	<50	<5	10
115054	159	110	9060	271	32	0.07	56	>10000	3.05	<50	<50	<5	20
115055	69	120	6820	177	37	0.19	62	>10000	2.28		50	5	10
115056	157	120	2700	152	37	0.13	60	>10000	1.570		50	5	10
115057	117	130	2860	106	33	0.26	68	>10000	2.24		60	9	10
115058	93	130	1650	76	32	0.27	64	>10000	1.680		70	10	10
115059	38	200	4310	101	57	0.25	67	3960			70	8	10
115060	20	120	1060	40	28	0.24	53	4640			60	8	10
115061	5	110	107	27	28	0.21	42	271			50	7	10
115062	2	80	46	9	24	0.20	34	56			50	7	10
115063	4	80	41	12	27	0.22	41	82			50	7	10
115064	5	170	58	40	50	0.37	84	522			90	12	20
115065	1	110	49	26	30	0.30	56	80			70	10	10
115066	1	110	65	24	31	0.27	43	226			70	9	10
115067	8	130	116	33	34	0.34	66	92			80	12	20
115068	1	10	6	<5	1	0.11	3	14			<50	<5	<10
115069	20	130	204	27	36	0.33	88	48			60	11	10
115070	14	100	514	26	29	0.26	61	2170			60	8	10
115071	11	80	702	28	26	0.22	54	3120			50	7	10
115072	9	80	328	17	24	0.23	48	1490			50	7	10
115073	4	70	71	9	24	0.21	34	73			50	7	10
115074	11	120	100	16	33	0.35	82	48			70	10	20
115075	20	140	86	11	36	0.35	81	33			90	11	30
115076	23	130	141	19	32	0.36	84	59			80	11	20
115077	24	100	40	11	25	0.33	73	25			80	10	20
115078	16	90	72	11	30	0.26	63	71			60	7	10

Project: McLeans



CERTIFICATE OF ANALYSIS BU12099587

Method Analyte Units LOR	Sample Description	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
	115079	1.72	<0.5	21	2	<0.01	4.0	19	51	8	1.15	4.08	0.38	25	<1	0.07
	115080	3.23	<0.5	18	<2	<0.01	2.2	13	41	8	0.89	3.26	0.35	49	<1	0.05
	115081	1.21	<0.5	16	2	<0.01	2.8	7	35	3	0.85	2.54	0.27	45	<1	0.04
	115082	0.05	19.4	454	25	0.18	153.5	16	43	1285	12.25	1.73	1.07	1410	4	0.04
	115083	1.98	<0.5	15	<2	0.01	0.5	17	30	8	1.60	2.12	0.26	31	<1	0.04
	115084	1.24	<0.5	10	<2	0.01	<0.5	8	23	4	1.10	1.75	0.25	50	1	0.06
	115085	2.81	<0.5	15	3	0.01	<0.5	13	38	4	1.40	3.27	0.41	32	1	0.05
	115086	1.01	<0.5	5	<2	0.01	<0.5	12	28	1	1.13	2.42	0.30	24	1	0.03
	115087	3.28	<0.5	17	2	0.01	<0.5	14	44	7	1.13	4.05	0.46	71	<1	0.06
	115088	2.73	<0.5	6	<2	<0.01	<0.5	8	44	3	0.76	4.08	0.46	35	<1	0.06
	115089	2.87	<0.5	15	<2	0.02	<0.5	11	45	4	0.90	4.25	0.50	25	1	0.06
	115090	2.52	<0.5	7	<2	0.09	<0.5	6	43	3	2.86	3.84	1.30	1440	<1	0.06
	115091	2.56	<0.5	13	3	0.04	1.3	11	41	4	0.88	3.45	0.37	40	1	0.07



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Project: McLeans

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CERTIFICATE OF ANALYSIS BU12099587

Sample Description	Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm
115079		19	160	185	17	42	0.41	97	334			90	12	20
115080		14	150	106	15	36	0.34	74	403			90	10	20
115081		8	110	77	18	29	0.29	56	890			70	9	20
115082		18	390	>100000	96	10	0.16	54	>100000	3.85	1.360	<50	<5	10
115083		21	100	60	9	26	0.24	51	253			70	8	10
115084		10	90	21	6	19	0.19	41	96			50	6	10
115085		17	130	42	6	26	0.31	75	78			80	9	20
115086		13	90	9	<5	20	0.26	49	52			60	8	10
115087		18	120	12	6	27	0.37	87	76			90	11	20
115088		10	120	9	<5	26	0.40	86	91			80	12	20
115089		15	190	46	7	25	0.36	88	197			80	11	30
115090		15	380	28	6	30	0.35	80	119			80	10	20
115091		11	270	103	8	36	0.35	79	287			80	10	20



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CERTIFICATE BU12105681

Project: McLeans
P.O. No.: 003

This report is for 49 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 11- MAY- 2012.

The following have access to data associated with this certificate:

DAMON ELDER

PETER ROLLEY

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LEV- 01	Waste Disposal Levy
PUL- QC	Pulverizing QC Test
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 21	Crush entire sample > 70% - 6 mm
STO- 23	Monthly storage charge for pulp
PUL- 23	Pulv Sample - Split/Retain

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: MOONRAKER MINERALS PTY LTD
ATTN: DAMON ELDER
UNIT 1
245 CHURCHILL AVENUE
SUBIACO WA 6008

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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Project: McLeans

CERTIFICATE OF ANALYSIS BU12105681

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 Bi ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115092	2.33	17.6	112	<2	0.02	4.7	4	22	68	1.57	1.23	0.16	99	1	0.04
115093	2.96	5.2	85	<2	0.02	13.2	7	32	454	1.33	1.77	0.20	79	3	0.05
115094	0.71	8.6	135	<2	0.02	11.4	9	19	56	1.54	0.82	0.12	98	1	0.03
115095	1.58	14.4	93	<2	0.02	3.8	3	13	38	0.87	0.69	0.10	115	<1	0.03
115096	2.13	0.7	203	<2	0.01	2.0	31	25	31	3.67	1.87	0.19	37	1	0.06
115097	1.32	<0.5	23	<2	<0.01	2.7	12	36	10	1.08	3.01	0.29	22	1	0.10
115098	1.75	<0.5	103	<2	0.01	2.1	19	36	33	1.87	2.69	0.27	24	2	0.09
115099	0.57	0.7	160	<2	0.01	4.7	9	30	50	2.29	2.21	0.23	58	1	0.07
115100	1.18	0.6	354	<2	0.01	2.7	25	17	54	5.65	1.16	0.12	34	1	0.05
115101	0.94	<0.5	22	<2	0.01	3.3	5	21	23	0.84	1.46	0.15	33	1	0.07
115102	0.96	<0.5	130	<2	0.01	2.7	24	24	10	2.44	1.84	0.20	45	1	0.06
115103	0.72	0.8	213	<2	0.01	5.4	15	23	22	3.20	1.75	0.19	55	1	0.06
115105	1.05	0.7	34	2	0.01	14.8	9	40	67	1.31	3.02	0.33	90	1	0.11
115106	0.05	18.1	450	20	0.17	145.0	15	38	1300	11.95	1.70	1.05	1380	3	0.04
115107	1.36	1.0	50	<2	0.01	18.4	15	33	65	3.31	2.54	0.28	79	1	0.09
115108	2.87	2.6	22	<2	0.01	18.9	11	29	156	1.16	2.09	0.29	780	2	0.06
115109	2.68	24.7	100	3	0.01	75.9	19	35	178	1.98	2.42	0.33	150	1	0.07
115110	3.00	32.0	167	<2	0.03	186.0	86	29	209	8.26	1.27	0.24	316	1	0.04
115111	3.04	43.7	128	<2	0.03	168.0	65	34	236	5.12	1.37	0.25	384	<1	0.04
115112	0.31	8.4	342	<2	0.02	53.7	27	34	135	4.52	2.23	0.29	177	2	0.06
115113	0.57	1.4	66	<2	0.01	23.6	8	36	132	1.75	2.89	0.32	86	3	0.09
115115	1.28	6.3	240	<2	0.02	86.1	16	22	138	5.52	1.28	0.16	129	1	0.05
115116	1.61	4.3	181	<2	0.03	54.5	15	23	154	4.07	1.41	0.17	107	2	0.05
115118	1.27	3.7	184	<2	0.01	18.2	29	35	135	1.16	2.10	0.24	58	1	0.07
115119	0.67	22.0	365	<2	0.01	34.7	16	26	109	2.30	1.11	0.13	108	<1	0.04
115120	2.30	>100	6000	<2	0.02	1030	51	13	604	5.71	0.25	0.06	200	<1	0.01
115121	0.76	1.6	78	<2	0.01	7.7	1	12	9	0.55	0.05	0.01	49	<1	<0.01
115122	2.63	32.5	2630	2	0.04	2020	96	24	159	7.74	0.46	0.12	232	<1	0.02
115123	0.62	85.8	5310	<2	0.04	825	58	19	297	6.75	0.30	0.09	197	<1	0.02
115124	2.55	29.4	1180	<2	0.04	706	100	21	148	12.00	0.27	0.09	289	<1	0.01
115125	1.89	23.2	18750	<2	0.04	1070	86	18	144	8.19	0.28	0.13	219	<1	0.02
115127	0.35	19.8	1230	<2	0.02	136.0	10	18	115	13.00	0.58	0.12	184	1	0.03
115128	0.37	15.0	1495	<2	0.02	103.5	7	18	105	2.17	0.86	0.18	119	1	0.03
115129	0.39	18.1	1920	<2	0.02	50.6	6	20	89	2.11	1.05	0.17	89	1	0.04
115131	1.11	14.6	1970	<2	0.02	55.6	7	18	84	1.22	0.86	0.19	87	1	0.04
115132	1.35	6.9	1680	<2	0.03	32.5	9	18	62	1.58	0.77	0.22	172	1	0.04
115135	0.05	17.9	417	18	0.17	143.5	15	39	1270	11.65	1.66	1.02	1350	4	0.04
115137	0.82	7.2	166	<2	0.02	54.3	12	13	27	9.37	0.39	0.10	175	<1	0.02
115138	2.60	1.6	77	<2	0.01	21.0	10	20	39	1.45	1.28	0.18	48	<1	0.03
115139	1.99	<0.5	25	<2	0.01	1.4	12	19	12	0.50	1.58	0.20	30	<1	0.03



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CERTIFICATE OF ANALYSIS BU12105681

Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm	PUL-QC Pass75um %
115092	15	90	7270	437	33	0.14	35	950		0.001	0.001	<50	<5	10	0.01
115093	20	80	2540	157	26	0.19	48	3420				50	6	10	
115094	19	70	3400	157	22	0.11	22	1780				<50	<5	10	
115095	14	60	6350	260	25	0.09	18	706				<50	<5	<10	
115096	65	80	397	23	26	0.21	45	661				50	6	10	
115097	29	110	472	21	40	0.36	71	1385				70	10	20	
115098	46	110	394	22	35	0.34	63	2610				80	10	20	
115099	37	100	535	23	32	0.28	52	2040				70	8	20	
115100	85	60	498	29	20	0.15	27	1775				<50	<5	10	
115101	20	90	129	10	28	0.20	37	833				60	6	10	
115102	72	90	151	11	23	0.20	41	746				60	6	10	
115103	46	70	398	22	23	0.18	41	1485				50	5	10	
115105	29	120	993	43	34	0.33	79	3400				70	10	20	
115106	14	360	>10000	92	9	0.14	52	>10000	1.310	3.89		<50	<5	10	
115107	41	110	1080	45	32	0.27	67	3100				70	7	20	
115108	22	90	1390	95	29	0.22	59	3130				60	6	10	
115109	35	120	>10000	342	37	0.23	76	>10000	1.200	1.305	1.200	60	6	20	
115110	158	100	>10000	286	30	0.12	60	>10000	1.580	3.89	1.580	50	<5	20	
115111	135	110	>10000	320	33	0.14	69	>10000	2.24	3.39	2.24	50	<5	20	
115112	55	120	3650	85	34	0.21	75	>10000		1.050		60	7	20	93.5
115113	19	150	1490	64	49	0.28	73	2670				80	8	20	
115115	42	50	2960	97	18	0.12	32	>10000		1.505		<50	<5	10	
115116	35	60	2270	87	21	0.15	36	>10000		1.025		<50	<5	10	
115118	57	110	1630	135	30	0.29	63	6780				70	9	10	
115119	24	120	>10000	353	20	0.18	37	8550	1.040			<50	5	20	
115120	94	100	>10000	1745	15	0.04	25	>10000	115	14.60	7.74	<50	<5	20	
115121	3	20	944	29	3	0.10	3	1050				<50	<5	<10	
115122	176	80	>10000	1765	23	0.07	53	>10000		12.55	5.79	<50	30	30	
115123	128	130	>10000	1440	16	0.04	30	>10000		5.51	13.50	<50	<5	20	
115124	174	310	>10000	1395	12	0.03	58	>10000		10.20	3.01	<50	<5	30	
115125	177	180	>10000	1285	15	0.04	41	>10000		9.92	4.18	<50	<5	20	
115127	67	690	7440	650	19	0.07	49	>10000		2.50		<50	<5	20	
115128	77	180	7680	571	29	0.13	32	>10000		1.410		<50	<5	10	
115129	64	260	5430	509	53	0.17	37	7630				<50	5	10	
115131	72	310	4910	727	89	0.14	30	>10000		1.255		<50	<5	10	
115132	99	490	3190	727	170	0.11	33	8710				50	<5	10	
115135	15	350	>10000	87	9	0.14	51	>10000		3.83	1.260	<50	<5	10	
115137	38	440	3870	225	17	0.05	47	5630				<50	<5	20	
115138	22	90	1740	97	20	0.17	31	4060				<50	5	10	
115139	24	60	302	21	15	0.19	31	253				<50	6	10	87.4



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Minerals

CERTIFICATE OF ANALYSIS BU12105681

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
115140		0.57	<0.5	28	<2	<0.01	1.0	11	25	6	0.98	1.90	0.23	40	<1	0.04
115141		0.67	<0.5	23	3	0.01	<0.5	12	31	7	1.03	2.02	0.24	40	1	0.04
115142		1.40	<0.5	23	3	0.01	<0.5	11	40	21	0.79	3.07	0.34	33	1	0.06
115143		0.88	<0.5	24	<2	0.01	<0.5	13	30	19	0.82	2.32	0.27	36	1	0.04
115144		0.76	1.2	14	<2	0.01	0.9	5	27	36	0.55	2.22	0.24	34	1	0.04
115145		2.60	1.2	39	<2	0.01	3.4	9	30	19	0.77	2.38	0.26	28	<1	0.05
115146		1.66	0.5	33	<2	0.01	0.9	13	43	15	1.01	3.29	0.36	31	1	0.06
115147		1.24	<0.5	20	<2	0.01	3.9	4	18	10	0.55	1.53	0.16	39	<1	0.03
115148		0.82	<0.5	8	<2	0.01	1.9	3	17	7	0.58	1.22	0.12	53	<1	0.03



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Minerals

CERTIFICATE OF ANALYSIS BU12105681

Sample Description	Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm	PUL-QC Pass75um %
115140		17	60	161	12	17	0.22	40	152		0.001	0.001	50	8	10	0.01
115141		20	90	98	13	24	0.23	47	128				60	8	10	
115142		17	140	108	25	37	0.33	65	100				80	10	20	
115143		20	100	67	21	27	0.25	48	113				60	8	20	
115144		8	90	106	39	22	0.23	46	93				60	7	10	
115145		12	100	332	31	27	0.25	50	644				60	8	10	
115146		19	130	179	23	37	0.30	80	239				60	9	10	
115147		6	70	185	21	20	0.18	32	882				<50	5	10	
115148		22	50	109	19	16	0.16	25	248				<50	5	10	



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CERTIFICATE BU12114220

Project: McLeans
P.O. No.: 004

This report is for 29 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 23- MAY- 2012.

The following have access to data associated with this certificate:

DAMON ELDER

PETER ROLLEY

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: MOONRAKER MINERALS PTY LTD
ATTN: PETER ROLLEY
UNIT 1
245 CHURCHILL AVENUE
SUBIACO WA 6008

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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 Account: MOONMIN

Project: McLeans

CERTIFICATE OF ANALYSIS BU12114220

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
115149	1.73	<0.5	15	<2	0.02	<0.5	13	42	50	0.59	3.23	1.00	22	<1	0.06
115150	2.03	<0.5	13	<2	0.11	1.9	25	37	30	4.65	2.79	1.37	5160	<1	0.05
115151	2.87	<0.5	15	<2	0.16	3.9	32	26	20	12.00	1.93	4.77	13750	<1	0.04
115152	4.07	<0.5	10	<2	0.14	3.1	22	26	17	9.00	1.98	5.81	9090	<1	0.05
115153	1.15	0.5	11	<2	0.14	2.5	302	32	875	8.40	1.97	6.28	7570	<1	0.05
115154	3.03	0.9	31	<2	0.18	1.4	133	51	397	12.20	2.33	1.10	11300	1	0.05
115155	3.25	<0.5	25	<2	0.12	1.8	60	33	91	7.46	1.73	1.27	6040	<1	0.04
115156	0.61	<0.5	18	<2	0.11	4.1	19	51	43	3.43	2.84	0.67	185	<1	0.05
115157	0.40	<0.5	18	<2	0.17	2.4	25	36	21	7.3	1.62	0.85	2720	<1	0.04
115158	2.67	0.5	20	<2	0.14	2.0	38	29	90	5.07	1.42	0.88	3660	<1	0.03
115159	0.76	<0.5	16	<2	0.15	2.3	8	13	16	1.38	0.55	0.17	247	<1	0.03
115160	1.39	<0.5	6	<2	0.09	1.7	5	10	8	1.18	0.38	0.11	257	<1	0.02
115161	1.32	<0.5	18	<2	0.09	3.2	16	13	16	1.32	0.47	0.18	361	<1	0.02
115162	2.49	<0.5	86	<2	0.05	6.6	55	19	48	4.18	0.87	0.30	536	1	0.03
115163	0.77	<0.5	<5	<2	0.01	<0.5	<1	13	1	0.43	0.04	0.01	47	<1	<0.01
115164	1.00	6.3	83	<2	0.10	7.1	36	69	291	3.51	2.45	0.45	115	10	0.03
115168	1.56	3.1	64	<2	0.06	28.0	19	57	99	2.88	2.22	0.38	205	10	0.03
115169	1.72	2.6	85	<2	0.06	1.7	24	83	77	3.73	2.93	0.56	217	19	0.03
115170	2.75	5.7	86	<2	0.08	6.3	26	71	160	3.57	2.82	0.44	147	17	0.03
115171	1.06	2.7	226	<2	0.05	39.1	21	42	42	10.60	2.34	0.75	6680	2	0.04
115172	2.99	0.6	23	<2	0.11	<0.5	27	39	36	16.45	2.18	1.02	16600	<1	0.03
115173	Not Recvd														
115174	0.48	0.7	24	<2	0.13	<0.5	24	38	22	14.15	2.11	1.78	13950	<1	0.04
115175	1.87	0.6	24	<2	0.12	<0.5	28	44	55	15.45	2.41	1.75	13550	<1	0.04
115176	1.89	<0.5	30	<2	0.14	<0.5	28	42	42	14.95	2.37	1.91	13200	<1	0.04
115177	0.79	2.2	53	<2	0.12	<0.5	33	53	55	8.91	2.71	1.01	7030	<1	0.05
115178	0.15	18.9	458	20	0.18	157.0	15	43	1425	13.10	1.80	1.15	1515	4	0.05
115182	0.54	<0.5	34	<2	0.23	<0.5	15	7	15	11.75	0.07	2.35	10700	<1	0.01
115183	0.72	<0.5	18	<2	0.25	<0.5	18	6	21	13.95	0.05	1.97	12150	<1	0.01



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CERTIFICATE BU12132911

Project: MCL04, MCL05
P.O. No.: 005

This report is for 158 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 13-JUN-2012.

The following have access to data associated with this certificate:

DAMON ELDER

PETER ROLLEY

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: MOONRAKER MINERALS PTY LTD
ATTN: PETER ROLLEY
UNIT 1
245 CHURCHILL AVENUE
SUBIACO WA 6008

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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Project: MCL04, MCL05

CERTIFICATE OF ANALYSIS BU12132911

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 Bi ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115184	1.95	1.3	57	<2	0.02	1.1	34	80	62	2.80	3.05	0.82	54	5	0.09
115185	2.45	0.8	79	<2	0.01	<0.5	58	87	65	4.35	2.80	0.64	73	4	0.05
115186	2.57	<0.5	69	3	0.02	<0.5	41	79	74	3.74	2.38	0.52	43	5	0.04
115187	0.84	<0.5	28	<2	0.02	0.5	23	54	29	2.66	1.78	0.44	72	2	0.04
115188	1.35	<0.5	39	<2	0.01	2.0	45	63	32	3.85	3.12	0.98	58	1	0.05
115189	2.25	<0.5	24	<2	0.01	5.3	29	58	23	2.18	3.08	0.84	69	<1	0.05
115190	2.67	<0.5	25	2	0.01	4.8	29	57	27	1.48	3.17	0.83	63	<1	0.06
115191	2.50	<0.5	30	2	0.01	7.2	30	59	28	1.61	3.23	0.77	58	1	0.06
115192	2.83	<0.5	35	<2	0.01	6.6	37	57	30	1.99	2.91	0.80	60	1	0.06
115193	2.44	<0.5	35	2	0.02	4.0	39	36	40	2.09	1.81	0.65	56	4	0.04
115194	1.76	<0.5	25	<2	0.03	6.7	19	14	13	1.23	0.53	0.20	63	3	0.03
115195	0.32	<0.5	193	<2	0.02	5.4	108	22	20	5.97	0.47	0.17	191	1	0.04
115196	1.95	<0.5	42	<2	0.03	18.8	48	30	27	2.16	1.27	0.52	60	3	0.05
115197	1.01	<0.5	95	<2	0.03	13.8	81	12	8	3.53	0.35	0.17	99	2	0.03
115198	0.05	19.1	445	23	0.17	153.0	15	42	1290	12.20	1.74	1.09	1465	3	0.04
115199	1.97	<0.5	29	<2	0.02	10.7	30	9	13	1.23	0.21	0.13	48	1	0.02
115200	2.60	<0.5	54	<2	0.02	12.1	68	10	12	1.86	0.15	0.12	70	1	0.01
115201	0.31	<0.5	23	<2	0.02	11.4	31	16	5	3.06	0.07	0.14	262	1	0.01
115202	1.69	<0.5	12	<2	0.02	10.5	22	18	6	0.97	0.05	0.15	59	<1	0.01
115203	3.48	<0.5	28	2	0.03	6.2	28	12	40	1.24	0.25	0.31	41	<1	0.01
115204	0.46	0.7	163	<2	0.03	7.7	57	9	252	3.73	0.06	0.07	154	<1	0.02
115205	1.51	<0.5	58	<2	0.04	13.2	29	6	97	1.25	0.06	0.08	58	<1	0.02
115206	1.89	<0.5	49	<2	0.03	8.7	25	5	68	1.09	0.07	0.08	57	<1	0.02
115207	2.68	<0.5	33	<2	0.03	1.5	30	33	59	0.97	2.41	0.88	38	<1	0.04
115208	4.59	<0.5	23	<2	0.02	1.8	36	34	46	1.01	2.41	0.92	27	1	0.04
115209	1.09	<0.5	34	<2	0.02	0.6	20	59	5	2.93	1.46	1.41	35	<1	0.43
115210	2.51	<0.5	27	2	0.01	3.1	21	45	5	0.97	2.27	0.67	32	1	0.08
115211	2.51	<0.5	36	<2	0.01	1.7	27	46	3	1.34	2.45	0.65	34	1	0.08
115212	2.15	<0.5	41	<2	0.01	0.8	31	50	3	1.50	2.72	0.74	27	2	0.09
115213	3.03	<0.5	21	<2	0.01	1.4	22	49	7	2.41	2.48	0.63	34	1	0.14
115214	3.21	<0.5	16	<2	0.02	<0.5	17	63	10	3.25	3.95	0.52	22	<1	0.15
115215	3.23	<0.5	23	5	0.02	<0.5	20	60	13	3.44	3.73	0.45	27	1	0.14
115216	3.84	<0.5	21	2	0.01	2.89	16	56	13	2.89	3.53	0.39	27	1	0.13
115217	3.72	<0.5	20	<2	0.02	<0.5	12	54	17	2.11	3.58	0.41	25	<1	0.14
115218	3.27	<0.5	12	<2	0.03	<0.5	11	51	12	1.65	3.51	0.38	18	<1	0.14
115219	1.95	<0.5	24	<2	0.02	1.2	14	48	7	1.59	3.25	0.42	30	<1	0.12
115220	2.61	0.5	18	<2	0.01	<0.5	12	43	10	1.56	2.90	0.34	24	<1	0.11
115221	3.75	0.5	57	<2	<0.01	<0.5	23	54	21	3.22	3.86	0.42	23	2	0.15
115222	3.81	<0.5	20	2	0.01	<0.5	11	51	15	1.79	3.92	0.40	23	1	0.15
115223	0.63	<0.5	<5	<2	0.01	<0.5	<1	16	1	0.67	0.05	0.01	68	<1	0.01



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Minerals

CERTIFICATE OF ANALYSIS BU12132911

Method Analyte Units LOR	ME-ICRP61 Ni ppm	ME-ICRP61 P ppm	ME-ICRP61 Pb ppm	ME-ICRP61 Sb ppm	ME-ICRP61 Sr ppm	ME-ICRP61 Ti %	ME-ICRP61 V ppm	ME-ICRP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICRP61 Ce ppm	ME-ICRP61 Nb ppm	ME-ICRP61 Y ppm
115184	87	250	714	21	85	0.38	244	662		0.001	0.001	80	10	20
115185	139	190	221	21	42	0.34	167	296				60	11	20
115186	115	200	216	14	50	0.29	141	284				70	9	20
115187	51	190	357	12	48	0.23	75	620				60	7	10
115188	76	360	458	13	101	0.34	119	897				90	11	10
115189	44	190	485	11	64	0.40	101	1015				60	13	10
115190	43	140	317	15	50	0.40	104	783				60	12	10
115191	48	150	303	16	59	0.41	112	1005				60	11	10
115192	69	150	214	17	57	0.36	114	906				60	12	10
115193	64	140	219	17	59	0.24	117	2410				<50	7	10
115194	29	80	741	12	37	0.07	32	4360				<50	<5	<10
115195	217	60	274	9	23	0.06	23	1205				<50	<5	<10
115196	73	210	1310	15	81	0.18	68	3200				<50	5	10
115197	150	60	1140	11	34	0.05	18	3520				<50	<5	<10
115198	15	390	>10000	98	6	0.16	56	>10000		3.78	1.340	<50	<5	10
115199	47	80	1130	10	33	0.04	10	2680				<50	<5	<10
115200	125	120	1350	18	51	0.03	9	4260				<50	<5	<10
115201	48	100	642	13	37	0.02	7	4480				<50	<5	<10
115202	31	100	512	10	41	0.02	6	3580				<50	<5	<10
115203	39	100	255	22	43	0.07	14	3020				<50	<5	<10
115204	83	20	331	20	13	0.01	3	5160				<50	<5	<10
115205	38	20	546	20	15	0.01	3	5100				<50	<5	<10
115206	34	20	363	16	13	0.01	3	3990				<50	<5	<10
115207	47	150	84	13	68	0.29	72	1765				50	8	10
115208	53	160	95	10	68	0.29	71	1470				50	8	10
115209	48	390	146	10	109	0.32	123	1135				70	9	20
115210	32	560	452	18	46	0.28	90	1240				80	7	20
115211	39	610	286	15	97	0.26	91	1700				80	6	20
115212	47	680	136	17	73	0.30	95	2060				100	8	20
115213	38	480	104	8	161	0.22	84	710				80	7	20
115214	35	250	33	10	33	0.28	111	90				90	10	20
115215	45	240	38	11	40	0.26	102	70				90	10	20
115216	36	200	22	8	27	0.25	92	52				80	9	10
115217	24	210	17	10	29	0.28	84	26				90	10	20
115218	22	280	22	7	29	0.29	83	30				90	11	20
115219	31	380	164	8	37	0.24	74	265				80	10	10
115220	25	160	44	7	29	0.21	60	89				70	8	10
115221	29	160	31	10	26	0.26	86	76				90	12	20
115222	23	170	17	8	25	0.29	81	29				70	14	10
115223	1	10	<2	<5	2	0.11	3	2				<50	<5	<10



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CERTIFICATE OF ANALYSIS BU12132911

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 BI ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
115224	2.73	0.5	22	2	0.01	<0.5	11	55	12	1.89	4.27	0.47	26	1	0.17
115225	3.49	<0.5	22	<2	0.02	<0.5	13	53	12	1.95	3.77	0.40	22	<1	0.16
115226	3.61	<0.5	28	<2	0.01	<0.5	15	58	12	2.10	3.67	0.39	26	1	0.15
115227	2.79	<0.5	23	3	0.21	<0.5	13	49	10	1.73	3.26	0.35	27	<1	0.14
115228	3.02	1.2	41	<2	0.03	1.8	15	52	12	1.99	3.66	0.41	35	1	0.14
115229	2.26	<0.5	28	<2	<0.01	0.5	13	54	15	1.98	3.83	0.48	77	<1	0.13
115230	1.19	<0.5	23	<2	0.01	0.5	17	43	3	1.90	2.72	0.45	28	<1	0.08
115231	0.29	<0.5	30	<2	0.01	<0.5	18	36	2	1.42	1.43	0.44	68	1	0.07
115232	1.16	<0.5	28	<2	0.01	<0.5	23	39	2	1.80	2.05	0.79	29	1	0.09
115233	1.70	<0.5	46	3	0.01	<0.5	51	52	7	2.14	2.85	1.03	21	1	0.08
115234	0.32	<0.5	26	<2	0.02	<0.5	40	45	15	1.85	2.78	1.10	34	<1	0.05
115235	2.79	<0.5	39	<2	0.01	<0.5	37	43	2	1.43	3.18	1.05	19	1	0.06
115236	0.80	<0.5	21	<2	0.01	<0.5	30	49	2	1.47	3.23	1.21	20	1	0.09
115237	0.98	<0.5	13	<2	0.02	<0.5	23	41	3	1.57	2.57	1.10	31	<1	0.11
115238	0.05	19.6	474	23	0.18	155.5	15	41	1295	12.40	1.74	1.10	1475	3	0.05
115239	2.14	<0.5	20	<2	0.02	1.2	29	53	5	1.68	2.20	0.94	36	1	0.11
115240	2.71	<0.5	83	3	0.02	<0.5	54	48	29	2.82	2.37	0.99	36	1	0.10
115241	1.91	<0.5	44	<2	0.02	<0.5	33	47	12	2.29	2.54	1.07	35	1	0.08
115242	1.97	<0.5	95	<2	0.02	<0.5	26	37	3	2.81	2.35	0.84	25	2	0.05
115243	1.83	<0.5	28	2	0.04	<0.5	31	44	4	2.06	2.52	0.90	27	2	0.06
115244	2.42	<0.5	68	3	0.05	<0.5	29	41	6	2.59	2.38	0.85	35	2	0.07
115245	0.61	0.7	26	2	0.10	<0.5	24	43	6	2.11	2.38	0.82	38	2	0.06
115246	2.33	91.0	60	2	0.07	9.6	27	37	32	2.20	2.26	0.85	41	1	0.11
115247	3.24	>100	39	<2	0.08	11.1	25	39	80	1.79	2.04	0.83	53	<1	0.11
115248	2.10	7.8	44	<2	0.13	<0.5	27	49	6	2.26	1.20	0.91	353	1	0.13
115249	2.38	7.2	75	<2	0.11	0.5	26	44	8	2.08	1.29	0.83	107	<1	0.13
115250	1.14	62.9	41	<2	0.13	2.3	29	45	15	2.12	1.50	0.92	263	1	0.11
115251	2.38	22.7	48	<2	0.12	9.6	22	39	16	2.62	1.90	1.34	535	1	0.12
115252	2.99	0.6	29	<2	0.10	<0.5	19	32	9	4.18	2.29	2.35	948	2	0.05
115253	0.68	<0.5	<5	2	0.01	<0.5	<1	15	1	0.59	0.06	0.01	62	<1	0.01
115254	2.86	5.1	21	<2	0.12	0.5	18	33	9	4.74	2.06	2.58	1400	2	0.07
115255	3.28	1.9	18	<2	0.47	<0.5	14	30	8	7.39	1.75	4.72	2640	2	0.06
115256	4.99	3.2	11	<2	1.10	<0.5	14	24	15	8.44	1.47	6.14	2720	1	0.08
115257	2.16	11.6	16	<2	2.95	<0.5	14	31	9	6.43	1.63	5.15	2110	2	0.13
115258	1.79	2.2	10	<2	5.36	<0.5	12	26	5	5.70	1.27	6.65	1800	2	0.19
115259	1.93	<0.5	12	<2	4.80	<0.5	11	25	3	6.16	1.35	6.62	2430	<1	0.17
115260	1.04	1.8	5	<2	4.47	<0.5	4	21	6	8.35	0.47	6.88	2670	<1	0.59
115261	2.21	1.0	5	<2	5.09	<0.5	11	28	7	6.72	0.43	6.41	2220	<1	0.75
115262	2.16	1.6	15	3	4.57	<0.5	17	35	8	7.77	1.32	7.32	2800	1	0.33
115263	1.96	<0.5	13	<2	0.27	<0.5	14	44	3	5.03	2.43	3.93	2100	<1	0.10



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Sample Description	Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm
115224		25	180	22	11	26	0.33	91	42			0.001	100	16	20
115225		26	190	20	8	23	0.27	85	34				70	11	10
115226		27	190	65	9	28	0.26	92	72				70	10	10
115227		26	1060	62	8	48	0.25	79	71				90	10	20
115228		32	280	169	10	40	0.26	85	574				90	11	20
115229		27	150	82	14	22	0.25	91	141				70	9	10
115230		30	190	51	9	31	0.20	77	527				70	8	10
115231		45	430	32	10	24	0.27	77	1910				50	8	10
115232		39	410	21	6	37	0.25	83	1000				50	6	10
115233		62	200	10	5	49	0.30	102	819				60	8	10
115234		49	240	8	7	49	0.31	98	775				60	8	10
115235		55	240	5	5	60	0.30	103	669				70	8	20
115236		39	130	6	<5	58	0.29	102	399				60	7	20
115237		31	120	10	6	61	0.30	94	447				60	8	20
115238		15	390	>10000	103	9	0.15	56	>10000		4.01	1.395	<50	<5	10
115239		45	140	156	12	67	0.33	151	915				80	8	20
115240		95	110	21	12	54	0.28	111	376				70	7	20
115241		59	100	15	12	48	0.27	102	212				70	8	20
115242		52	130	25	12	54	0.22	90	245				60	6	10
115243		51	190	32	8	52	0.27	104	294				70	7	10
115244		51	240	69	16	45	0.22	98	377				60	6	10
115245		38	420	73	14	43	0.26	102	321				60	7	20
115246		46	340	>10000	127	70	0.20	95	2610			3.06	60	5	20
115247		40	360	>10000	326	62	0.19	88	2710	258		8.64	50	5	20
115248		43	560	2550	23	115	0.28	115	296				70	8	20
115249		51	470	2380	23	94	0.26	97	204				60	7	20
115250		41	550	>10000	74	135	0.23	108	707			2.40	70	6	20
115251		41	510	7470	41	160	0.22	87	266				50	7	20
115252		44	530	179	7	409	0.22	82	74				50	8	10
115253		<1	10	86	<5	4	0.11	3	14				<50	<5	<10
115254		37	510	1820	18	303	0.18	81	131				50	7	10
115255		30	440	573	15	326	0.20	78	47				<50	10	10
115256		32	390	869	12	366	0.07	67	56				<50	6	10
115257		29	410	3490	24	189	0.18	82	58				<50	9	20
115258		24	350	649	8	381	0.16	72	38				<50	9	20
115259		18	350	75	8	224	0.16	68	38				<50	9	20
115260		14	290	445	8	1290	0.12	55	25				<50	9	20
115261		20	300	222	6	1630	0.17	75	24				<50	10	20
115262		29	450	265	8	615	0.20	88	31				50	10	20
115263		26	510	14	8	417	0.31	100	31				60	12	20



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Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 Bi ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115264	2.94	<0.5	<5	<2	1.06	2.5	25	29	1	11.75	1.94	2.74	13750	1	0.05
115265	2.41	<0.5	11	<2	1.27	0.8	20	27	1	9.81	1.53	3.65	8320	<1	0.07
115266	1.61	0.7	5	<2	2.26	3.5	7	27	6	6.06	1.75	4.22	3390	<1	0.05
115267	2.74	<0.5	<5	<2	3.19	2.6	4	20	4	6.24	1.46	4.68	2940	<1	0.04
115268	0.05	19.7	460	23	0.18	155.0	15	42	1310	12.45	1.76	1.11	1495	3	0.05
115269	2.73	<0.5	<5	<2	3.80	<0.5	5	27	<1	5.72	2.11	4.20	3070	<1	0.04
115270	1.59	<0.5	5	<2	1.36	<0.5	16	24	1	14.25	1.66	4.16	14300	<1	0.05
115271	2.01	2.1	42	3	4.39	2.3	20	55	95	5.20	2.04	2.92	2360	3	0.04
115272	4.07	18	17	<2	4.83	<0.5	11	47	35	3.13	2.71	3.21	776	1	0.03
115273	3.57	0.6	17	<2	3.59	<0.5	12	45	39	2.91	2.80	2.60	388	<1	0.03
115274	3.28	<0.5	8	4	11.95	<0.5	6	18	12	1.96	1.02	7.41	756	<1	0.03
115275	3.86	0.7	<5	<2	14.8	<0.5	2	6	5	1.53	0.27	8.33	971	<1	0.03
115276	3.97	<0.5	9	<2	9.65	<0.5	5	18	10	2.40	0.96	5.91	1080	<1	0.03
115277	3.07	<0.5	<5	7	12.75	<0.5	1	3	2	1.15	0.07	7.86	767	<1	0.02
115278	2.27	0.9	<5	<2	10.70	<0.5	3	3	3	1.90	0.04	7.27	2960	<1	0.02
115279	2.81	<0.5	<5	3	12.15	<0.5	3	3	1	1.64	0.05	7.88	1625	<1	0.02
115280	1.21	6.7	41	3	9.78	0.7	9	15	34	3.93	0.73	6.39	3580	<1	0.02
115281	2.75	0.9	13	<2	1.50	<0.5	15	31	9	12.45	2.19	2.91	12700	1	0.04
115282	3.50	<0.5	13	<2	0.26	<0.5	11	32	4	9.08	2.64	6.23	8640	<1	0.04
115283	0.71	<0.5	<5	<2	0.06	<0.5	<1	14	1	0.45	0.04	0.04	63	<1	<0.01
115284	3.42	<0.5	11	<2	0.15	<0.5	9	25	1	5.51	2.25	9.03	5950	<1	0.03
115285	3.20	<0.5	10	<2	0.16	<0.5	11	24	<1	6.51	2.11	7.86	6820	<1	0.03
115286	3.64	0.5	8	<2	0.26	<0.5	22	23	15	13.95	1.95	5.64	16650	<1	0.03
115287	1.71	0.7	5	<2	0.38	0.5	35	16	68	24.6	1.37	1.44	31500	<1	0.02
115288	2.78	<0.5	<5	<2	13.00	<0.5	2	6	2	1.71	0.14	7.86	1025	<1	0.02
115289	2.50	2.6	26	3	10.95	3.9	7	9	33	4.31	0.37	6.87	5500	1	0.02
115290	0.34	2.8	16	<2	8.69	13.3	7	10	38	4.83	0.46	5.38	6880	<1	0.02
115291	4.03	18.2	378	5	3.93	5.0	23	27	226	10.50	1.29	2.46	12500	2	0.02
115292	3.15	12.0	357	2	13.00	33.5	4	4	104	5.77	0.14	8.53	9660	<1	0.02
115293	2.72	13.0	141	3	15.9	16.2	2	1	62	2.41	0.02	8.94	4630	<1	0.01
115294	2.84	8.5	67	3	10.85	5.3	9	21	98	7.04	1.06	6.88	10800	<1	0.02
115295	3.15	13.7	89	<2	7.65	11.3	10	32	343	4.61	1.34	4.88	6480	3	0.02
115296	4.19	0.5	6	2	15.9	0.7	3	6	4	1.63	0.34	9.06	1415	<1	0.02
115297	3.75	1.8	30	5	8.98	<0.5	9	25	50	2.96	1.64	5.55	1990	1	0.03
115298	0.05	19.5	460	25	0.20	153.0	16	42	1240	12.25	1.65	1.12	1490	3	0.05
115299	3.57	1.6	25	3	14.4	<0.5	7	20	59	2.43	1.05	8.24	1140	5	0.02
115300	3.66	<0.5	<5	3	18.8	<0.5	1	1	<1	1.64	0.03	10.85	1185	<1	0.02
115301	3.34	2.1	16	3	15.9	0.5	2	2	47	2.27	0.05	8.82	1810	<1	0.02
115302	4.04	1.0	11	4	16.2	9.9	3	1	9	2.14	0.01	9.08	1705	<1	0.02
115303	3.64	1.3	31	3	17.3	5.4	3	5	39	1.97	0.13	9.69	2120	1	0.01

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Method Analyte Units LOR	ME-ICRP61 Ni ppm	ME-ICRP61 P ppm	ME-ICRP61 Pb ppm	ME-ICRP61 Sb ppm	ME-ICRP61 Sr ppm	ME-ICRP61 Ti %	ME-ICRP61 V ppm	ME-ICRP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICRP61 Ce ppm	ME-ICRP61 Nb ppm	ME-ICRP61 Y ppm
115264	34	870	87	13	90	0.16	80	1060		0.001	0.001	<50	6	20
115265	31	460	35	10	125	0.13	71	516				<50	6	20
115266	18	550	83	9	69	0.20	60	222				<50	9	10
115267	13	450	59	6	71	0.16	50	226				<50	8	10
115268	18	390	>10000	98	9	0.15	56	>10000		3.98	1.385	<50	<5	10
115269	13	340	6	9	64	0.22	63	100				<50	8	20
115270	29	240	13	8	51	0.17	62	843				<50	8	20
115271	59	520	210	21	75	0.23	134	549				<50	9	20
115272	38	440	38	19	183	0.27	70	49				<50	11	20
115273	35	480	30	11	116	0.28	61	52				60	11	20
115274	16	400	46	5	195	0.10	29	45				<50	9	10
115275	4	170	10	7	234	0.02	12	27				<50	7	10
115276	17	200	18	8	253	0.11	30	32				<50	8	10
115277	2	80	53	<5	429	0.01	18	18				<50	7	<10
115278	4	50	154	7	491	0.01	12	81				<50	6	<10
115279	4	70	11	<5	508	0.01	8	73				<50	6	<10
115280	15	620	75	33	399	0.09	30	347				<50	8	10
115281	26	450	26	10	102	0.21	82	226				<50	8	20
115282	23	520	9	7	69	0.29	75	195				50	12	20
115283	1	20	2	6	3	0.11	3	3				<50	<5	<10
115284	17	300	7	6	41	0.22	66	189				<50	12	10
115285	19	320	8	5	38	0.22	60	365				<50	11	10
115286	31	310	9	6	25	0.21	58	937				<50	10	20
115287	41	270	16	9	17	0.11	61	1895				<50	<5	20
115288	5	90	11	6	312	0.02	15	83				<50	6	<10
115289	13	190	254	13	330	0.04	37	1155				<50	6	10
115290	13	230	295	16	193	0.05	31	3860				<50	6	10
115291	35	450	939	133	116	0.13	94	1660				<50	6	10
115292	10	150	>10000	64	220	0.01	24	7750			1.090	<50	7	<10
115293	3	30	>10000	37	263	<0.01	17	4170			1.570	<50	6	<10
115294	19	180	3760	54	243	0.08	75	1515				<50	8	10
115295	31	670	904	158	249	0.11	92	3140				<50	7	10
115296	6	170	177	<5	393	0.04	13	173				<50	7	<10
115297	21	420	98	23	168	0.15	54	89				<50	9	10
115298	14	400	>10000	91	6	0.15	56	>10000		3.77	1.305	<50	5	10
115299	26	270	85	24	189	0.10	102	82				<50	8	10
115300	1	40	11	<5	235	<0.01	22	33				<50	6	<10
115301	4	80	76	14	199	0.01	29	144				<50	5	<10
115302	5	10	565	6	190	<0.01	20	2610				<50	<5	<10
115303	6	380	278	9	274	0.02	52	1405				<50	6	<10



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Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 BI ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115304	2.69	0.8	18	3	17.8	5.0	2	5	32	2.28	0.11	10.45	3250	<1	0.03
115305	2.30	1.6	37	<2	13.35	15.5	2	4	26	2.01	0.11	7.97	1935	<1	0.01
115306	2.44	<0.5	13	3	18.2	<0.5	3	4	5	1.61	0.19	10.50	1270	3	0.02
115307	2.59	2.1	6	3	18.4	0.6	2	2	91	1.73	0.06	10.60	1205	8	0.02
115308	2.28	1.2	36	4	15.4	2.8	8	4	46	4.47	0.21	8.66	3720	1	0.02
115309	2.15	0.7	61	2	17.9	1.1	1	2	20	1.77	0.08	10.35	1575	<1	0.02
115310	1.31	1.2	86	<2	19.1	5.6	2	2	45	1.63	0.08	11.10	1095	<1	0.02
115311	0.40	2.9	61	<2	11.15	1.1	10	6	146	7.15	0.20	7.11	7510	<1	0.02
115312	0.68	<0.5	23	<2	11.90	<0.5	4	3	4	5.31	0.07	8.23	4160	<1	0.02
115313	0.65	<0.5	<5	<2	0.39	<0.5	<1	16	1	0.62	0.03	0.20	89	<1	<0.01
115314	1.75	<0.5	8	<2	16.2	<0.5	5	4	13	3.23	0.17	9.48	2760	<1	0.02
115315	2.46	0.7	135	<2	12.35	0.6	6	13	19	3.39	0.79	7.99	3560	<1	0.02
115316	2.33	2.6	90	<2	12.30	6.4	6	17	15	2.20	1.03	7.76	1665	<1	0.03
115317	2.06	0.7	44	4	14.40	1.0	5	7	4	2.75	0.40	8.76	2690	<1	0.02
115318	1.20	2.3	39	3	16.5	1.5	3	4	7	1.73	0.22	9.41	1400	<1	0.02
115319	0.68	0.5	10	2	13.25	0.6	3	14	3	2.02	0.34	7.99	1235	<1	0.02
115320	0.99	0.6	12	<2	12.50	<0.5	5	6	13	3.42	0.30	7.81	3310	<1	0.02
115321	0.43	1.2	<5	4	0.68	0.8	26	<1	2	26.1	0.03	6.32	27600	<1	0.01
115322	0.36	3.0	286	3	0.76	15.6	19	<1	17	22.8	0.03	4.89	36300	<1	0.01
115323	0.30	1.7	126	5	0.49	11.6	19	1	5	25.0	0.03	4.97	29700	<1	0.01
115324	0.51	2.4	607	6	6.06	67.6	19	1	25	14.45	0.04	5.02	16600	<1	0.01
115325	0.79	2.6	79	2	10.95	38.5	1	2	16	2.53	0.03	6.92	1965	<1	0.03
115326	0.69	2.3	29	4	3.29	2.4	11	3	55	11.00	0.02	5.87	12650	<1	0.01
115327	0.99	<0.5	14	2	11.15	1.3	5	5	3	3.53	0.07	8.11	5820	<1	0.02
115328	0.05	19.3	459	21	0.18	152.5	14	41	1285	12.20	1.73	1.08	1460	4	0.05
115329	1.85	3.0	1010	<2	6.75	15.9	49	19	627	9.89	0.21	7.99	9880	1	0.02
115330	0.53	<0.5	463	2	14.8	<0.5	1	2	4	1.20	0.03	10.95	1380	<1	0.03
115332	0.56	<0.5	<5	<2	18.4	<0.5	2	1	3	0.75	0.02	11.30	728	<1	0.03
115333	1.05	0.7	66	<2	16.5	5.0	5	2	8	5.68	0.04	10.95	6150	<1	0.03
115334	0.91	0.5	10	<2	18.4	0.6	3	1	1	1.87	0.01	11.70	2520	<1	0.03
115335	2.26	<0.5	<5	3	21.1	<0.5	1	1	<1	0.30	0.01	13.40	381	<1	0.03
115336	2.27	<0.5	<5	3	18.7	<0.5	1	1	<1	0.44	0.01	12.20	440	<1	0.03
115337	2.52	<0.5	<5	<2	16.0	<0.5	1	2	1	0.43	0.04	13.15	373	<1	0.02
115338	2.18	<0.5	<5	<2	13.45	<0.5	2	2	1	0.26	0.10	15.50	259	<1	0.03
115339	2.11	<0.5	<5	2	11.15	<0.5	1	3	<1	0.48	0.10	15.30	230	<1	0.03
115340	2.97	<0.5	<5	3	10.65	<0.5	1	1	1	0.24	0.08	17.55	265	<1	0.02
115341	1.79	<0.5	<5	4	11.10	<0.5	1	1	1	0.33	0.03	15.90	463	<1	0.02
115342	1.04	<0.5	<5	2	10.45	<0.5	1	2	<1	0.34	0.02	15.85	359	<1	0.02



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Sample Description	Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Ag-OG62 Ag ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm
115304		6	650	95	7	318	0.02	38	1230		0.001	0.001	<50	7	<10
115305		5	400	641	16	219	0.01	64	3690				<50	6	<10
115306		6	500	46	<5	307	0.02	86	73				<50	6	<10
115307		5	110	38	61	306	0.01	49	116				<50	6	<10
115308		13	130	195	20	217	0.03	31	804				<50	7	<10
115309		3	80	123	14	270	0.01	38	290				<50	6	<10
115310		6	110	466	28	377	0.01	23	1600				<50	7	<10
115311		17	130	121	22	498	0.02	38	600				<50	6	10
115312		8	50	18	<5	487	0.01	14	166				<50	6	<10
115313		1	10	11	<5	10	0.11	3	24				<50	<5	<10
115314		7	50	38	7	602	0.02	7	125				<50	7	<10
115315		13	170	185	7	382	0.08	38	131				<50	8	10
115316		11	160	1460	10	420	0.08	41	1500				<50	8	10
115317		9	240	108	<5	386	0.04	28	325				<50	7	<10
115318		3	150	1020	<5	461	0.03	19	364				<50	7	<10
115319		7	230	20	<5	330	0.03	21	109				<50	7	<10
115320		9	230	41	<5	389	0.03	22	226				<50	7	<10
115321		34	100	29	<5	18	<0.01	21	1210				<50	6	10
115322		25	90	1610	17	15	<0.01	22	5090				<50	5	10
115323		37	120	1210	12	8	<0.01	14	4080				<50	5	10
115324		32	110	1850	20	100	<0.01	14	>10000		1.595		<50	6	10
115325		3	70	3680	26	247	<0.01	9	7510				<50	6	<10
115326		17	60	99	34	89	<0.01	12	1085				<50	6	10
115327		8	100	46	6	385	0.03	14	536				<50	6	<10
115328		14	390	>10000	100	9	0.15	55	>10000		3.88	1.370	<50	5	10
115329		22	190	1420	28	219	0.06	24	4270				<50	8	10
115330		4	20	13	10	352	0.01	3	68				<50	7	<10
115332		2	20	7	<5	378	<0.01	1	52				<50	7	<10
115333		9	70	202	<5	312	<0.01	3	1485				<50	6	<10
115334		2	80	43	<5	373	<0.01	1	231				<50	8	<10
115335		2	70	5	5	412	<0.01	<1	14				<50	7	<10
115336		<1	110	6	<5	379	<0.01	<1	21				<50	7	<10
115337		1	10	22	<5	331	0.01	1	20				<50	7	<10
115338		1	20	22	5	289	0.01	2	22				<50	8	<10
115339		1	20	25	<5	233	0.01	3	20				<50	8	<10
115340		1	20	15	<5	240	0.01	3	17				<50	8	<10
115341		1	20	6	<5	248	<0.01	4	22				<50	7	<10
115342		2	20	10	<5	216	<0.01	3	14				<50	7	<10



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Account: MOONMIN

CERTIFICATE BU12135141

Project: MCL05A
P.O. No.: 006

This report is for 84 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 15-JUN-2012.

The following have access to data associated with this certificate:

DAMON ELDER

PETER ROLLEY

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
ME-ICP61	33 element four acid ICP- AES	ICP- AES

To: MOONRAKER MINERALS PTY LTD
ATTN: PETER ROLLEY
UNIT 1
245 CHURCHILL AVENUE
SUBIACO WA 6008

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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CERTIFICATE OF ANALYSIS BU12135141

Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICP61 Ag ppm	ME-ICP61 AS ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %
115343	2.68	<0.5	10	<2	<0.01	<0.5	7	56	13	1.27	3.15	0.33	23	1	0.19
115344	3.09	<0.5	24	2	<0.01	<0.5	15	61	17	2.68	3.28	0.35	30	1	0.21
115345	3.39	<0.5	25	2	<0.01	<0.5	18	56	13	2.16	3.18	0.34	24	<1	0.19
115346	3.16	<0.5	21	2	<0.01	<0.5	14	46	10	2.05	2.72	0.30	28	1	0.17
115347	2.58	<0.5	31	4	<0.01	<0.5	21	43	12	2.46	2.44	0.26	35	<1	0.15
115348	2.42	<0.5	46	4	<0.01	<0.5	31	55	20	3.91	3.16	0.33	34	1	0.20
115349	1.88	<0.5	18	2	0.01	<0.5	12	41	9	1.41	2.62	0.27	29	<1	0.16
115350	3.35	<0.5	13	2	<0.01	<0.5	10	48	5	0.92	3.14	0.31	17	<1	0.19
115351	2.92	<0.5	13	2	<0.01	<0.5	13	50	8	0.99	3.28	0.32	13	<1	0.20
115352	1.19	<0.5	13	6	<0.01	<0.5	9	35	6	0.92	2.17	0.23	24	<1	0.12
115353	2.97	<0.5	23	6	<0.01	0.5	19	44	13	1.73	2.39	0.26	33	<1	0.13
115354	3.49	0.5	31	5	<0.01	<0.5	22	65	17	2.43	3.29	0.36	28	1	0.21
115355	3.80	0.5	22	2	<0.01	<0.5	17	52	13	1.90	3.14	0.34	30	<1	0.17
115356	0.82	<0.5	14	2	<0.01	1.5	17	51	5	1.27	2.90	0.50	29	<1	0.13
115357	0.66	<0.5	<5	<2	0.01	<0.5	2	17	<1	0.59	0.05	0.01	56	<1	0.01
115358	1.64	<0.5	42	<2	0.01	3.7	63	50	1	2.64	2.64	0.96	23	2	0.08
115359	1.65	0.6	94	3	0.01	3.2	92	47	4	3.06	2.20	0.54	35	1	0.10
115360	1.89	0.6	21	3	<0.01	<0.5	25	62	14	2.01	3.52	0.42	32	1	0.15
115361	3.72	0.5	21	<2	<0.01	<0.5	19	61	13	2.00	3.43	0.41	21	<1	0.17
115362	3.23	0.5	24	3	<0.01	<0.5	16	59	15	1.54	3.50	0.36	21	<1	0.18
115363	2.34	<0.5	40	<2	0.01	<0.5	29	61	16	3.88	3.23	0.37	59	1	0.17
115364	3.22	0.6	46	2	<0.01	0.7	24	65	13	2.59	3.32	0.38	39	1	0.17
115365	1.43	0.7	35	<2	<0.01	<0.5	23	69	13	2.74	3.61	0.40	40	<1	0.18
115366	1.04	0.7	32	2	0.01	<0.5	26	55	13	2.33	2.82	0.33	42	<1	0.13
115367	2.24	<0.5	21	3	0.01	1.6	28	51	4	1.70	2.98	0.66	35	1	0.11
115368	2.93	<0.5	16	3	<0.01	<0.5	17	46	8	1.58	2.92	0.35	25	<1	0.11
115369	3.74	<0.5	14	2	<0.01	0.8	18	46	9	1.14	3.15	0.36	20	<1	0.13
115370	1.47	0.6	9	2	<0.01	0.9	14	46	4	1.03	3.31	0.37	25	<1	0.13
115371	0.86	53.3	255	<2	0.01	145.0	66	30	152	2.70	1.20	0.26	115	<1	0.06
115372	0.06	21.1	498	26	0.19	169.5	17	46	1385	13.15	1.84	1.20	1595	3	0.05
115373	1.49	15.7	43	<2	0.01	38.6	31	49	39	2.28	3.46	0.50	38	<1	0.12
115374	2.51	1.0	37	<2	0.02	9.7	44	34	3	1.51	1.83	0.37	63	2	0.05
115375	1.18	<0.5	30	<2	0.02	0.8	37	46	9	1.76	3.10	0.89	62	<1	0.08
115376	1.95	0.8	58	<2	0.04	1.6	38	16	31	1.72	0.44	0.13	82	1	0.02
115377	1.96	1.0	50	<2	0.03	0.7	41	52	60	2.68	1.56	0.44	110	6	0.03
115378	2.37	0.7	37	<2	0.02	0.6	36	51	48	2.41	2.17	0.57	82	4	0.05
115379	1.80	1.1	144	<2	0.04	2.9	28	27	21	2.22	1.02	0.31	79	1	0.02
115380	1.67	0.8	55	<2	0.04	1.1	34	42	26	1.92	1.88	0.66	77	<1	0.04
115381	3.12	<0.5	22	<2	0.04	0.7	27	43	46	0.78	2.33	1.36	42	<1	0.03
115382	1.20	<0.5	101	<2	0.02	19.1	146	44	26	1.65	2.94	0.87	28	<1	0.05

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CERTIFICATE OF ANALYSIS BU12135141

Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm	PUL-QC Pass75um %
115343	6	80	63	<5	37	0.31	78	13	0.001	0.001	70	10	10	10
115344	22	90	53	20	43	0.29	83	26			90	9	10	10
115345	27	120	75	19	44	0.29	82	40			80	9	10	10
115346	20	100	54	8	39	0.25	66	41			80	8	10	10
115347	30	100	79	7	34	0.23	68	55			80	7	10	10
115348	52	120	64	15	42	0.27	81	32			90	8	10	10
115349	17	90	45	8	36	0.26	65	47			70	10	10	10
115350	10	110	47	<5	38	0.30	79	57			70	12	10	10
115351	12	100	24	<5	35	0.32	86	56			80	13	10	10
115352	9	80	37	5	34	0.24	64	58			60	9	10	10
115353	23	100	194	7	40	0.23	65	105			70	8	10	10
115354	30	110	92	30	49	0.30	92	35			90	10	10	10
115355	23	100	73	11	46	0.29	84	54			90	10	10	10
115356	17	140	414	15	53	0.33	85	310			80	10	10	10
115357	1	10	<2	<5	<1	0.12	3	<2			<50	<5	<10	10
115358	71	150	1430	25	56	0.30	101	1120			60	7	10	10
115359	121	500	534	15	574	0.26	80	2300			80	9	20	20
115360	38	120	85	13	46	0.31	92	125			100	15	20	20
115361	32	100	111	12	32	0.29	86	105			90	12	20	20
115362	25	110	50	11	36	0.32	90	44			70	13	10	80.6
115363	46	120	81	20	36	0.25	89	44			90	17	20	20
115364	38	90	348	19	30	0.29	90	211			90	12	20	20
115365	45	140	97	22	41	0.29	95	49			110	12	20	20
115366	41	130	62	14	63	0.23	68	19			90	9	10	10
115367	35	100	170	13	42	0.31	96	686			80	8	10	10
115368	21	90	64	9	27	0.26	71	140			90	8	10	10
115369	24	90	78	10	22	0.27	73	236			80	11	20	20
115370	19	90	198	5	19	0.29	77	258			80	12	10	10
115371	88	340	>10000	123	163	0.16	46	>10000	3.34	1.930	60	<5	10	10
115372	15	440	>10000	111	7	0.17	59	>10000	3.96	1.355	<50	6	10	10
115373	45	130	650	47	45	0.23	82	9030			80	12	20	20
115374	52	170	880	19	81	0.23	55	4930			70	7	10	10
115375	41	230	70	14	34	0.33	98	1990			60	11	10	10
115376	50	170	70	22	35	0.06	42	2690			<50	<5	<10	10
115377	71	140	88	28	40	0.19	258	1510			<50	9	10	10
115378	60	110	86	20	35	0.25	167	908			<50	10	20	20
115379	50	50	195	13	22	0.13	48	2460			<50	5	10	10
115380	50	120	315	9	42	0.31	77	1800			50	10	10	10
115381	39	100	48	<5	30	0.39	85	1360			70	13	10	10
115382	155	270	401	14	91	0.34	100	9950			60	10	20	98.8



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Method Analyte Units LOR	WEI-21 Recvd Wt. <g>	ME-ICRP61 Ag ppm	ME-ICRP61 AS ppm	ME-ICRP61 Bi ppm	ME-ICRP61 Ca %	ME-ICRP61 Cd ppm	ME-ICRP61 Co ppm	ME-ICRP61 Cr ppm	ME-ICRP61 Cu ppm	ME-ICRP61 Fe %	ME-ICRP61 K %	ME-ICRP61 Mg %	ME-ICRP61 Mn ppm	ME-ICRP61 Mo ppm	ME-ICRP61 Na %
115383	1.44	0.7	38	<2	0.03	6.3	34	55	35	2.41	3.18	0.76	101	<1	0.05
115384	1.30	<0.5	36	<2	0.01	9.1	26	58	24	1.74	3.08	0.67	75	<1	0.05
115385	0.36	1.8	47	<2	0.03	6.6	43	55	74	2.02	2.55	0.63	72	<1	0.04
115386	0.63	0.9	47	<2	0.02	3.1	32	51	37	2.32	1.95	0.45	68	3	0.03
115387	0.72	<0.5	<5	<2	0.01	<0.5	<1	15	1	0.69	0.05	0.01	71	<1	0.01
115388	2.05	1.9	40	<2	0.02	0.6	27	44	56	2.42	1.33	0.30	82	5	0.03
115389	2.23	8.2	130	<2	0.02	1.6	21	34	173	2.13	1.26	0.24	90	5	0.02
115390	1.60	4.2	51	<2	0.02	1.4	17	29	74	1.80	1.09	0.20	61	4	0.02
115391	1.40	1.1	110	<2	0.03	10.0	18	19	15	2.46	0.80	0.18	75	2	0.02
115392	0.68	0.7	74	<2	0.01	10.7	4	5	2	1.57	0.02	0.01	94	<1	0.01
115393	0.37	1.7	116	<2	0.01	26.4	8	7	14	1.23	0.16	0.04	56	<1	0.01
115394	0.57	3.2	214	<2	0.02	23.9	13	12	53	1.55	0.39	0.08	82	<1	0.01
115395	1.52	3.7	1445	<2	0.03	47.3	14	8	46	2.54	0.15	0.04	133	<1	0.01
115396	1.49	3.3	3100	<2	0.02	26.3	16	8	60	2.32	0.13	0.04	115	<1	0.01
115397	0.52	6.3	97	3	0.05	6.9	8	13	97	1.45	0.28	0.07	103	2	0.01
115398	1.05	1.3	158	<2	0.12	43.2	12	12	33	1.67	0.35	0.09	141	2	0.01
115399	1.11	4.7	436	<2	0.09	51.9	26	15	63	3.55	0.39	0.08	134	4	0.01
115400	1.53	3.9	1225	3	0.27	37.6	25	31	58	3.78	1.30	0.27	106	5	0.02
115401	1.17	2.9	296	<2	0.20	13.7	24	44	70	2.81	2.26	0.39	98	2	0.03
115402	0.06	19.1	451	15	0.17	153.5	17	39	1260	11.90	1.67	1.08	1460	3	0.04
115403	1.90	4.0	2330	<2	0.28	15.7	20	34	43	3.62	1.32	0.23	160	4	0.02
115404	2.99	3.5	1405	<2	0.25	13.0	30	60	74	3.76	2.05	0.38	108	7	0.03
115405	1.75	1.8	257	<2	0.18	7.8	14	31	28	1.88	1.49	0.36	98	5	0.02
115406	0.41	<0.5	14	3	0.14	1.3	22	11	5	10.45	0.32	0.14	13500	1	0.01
115407	2.86	0.5	64	5	0.33	22.6	29	25	16	16.95	1.41	2.00	35900	1	0.02
115408	3.39	<0.5	30	<2	0.31	14.8	19	18	8	20.6	0.98	2.76	56200	<1	0.02
115409	1.00	1.9	6	7	0.77	36.2	3	1	21	19.75	0.34	4.20	62000	<1	0.01
115410	0.54	<0.5	25	<2	0.18	3.6	26	54	33	5.63	3.06	0.77	5200	1	0.06
115411	2.19	1.9	151	<2	0.13	14.6	38	34	38	7.18	1.80	0.77	8350	2	0.04
115412	0.63	<0.5	100	4	0.28	2.4	36	9	9	16.90	0.49	0.38	22900	<1	0.01
115413	1.28	<0.5	39	<2	0.38	0.5	37	3	5	29.1	0.24	5.36	30100	<1	0.01
115414	2.24	<0.5	106	<2	0.38	6.2	33	2	9	19.30	0.12	8.12	25100	<1	0.01
115415	2.43	<0.5	17	<2	0.32	9.8	1635	16	2840	14.00	0.04	13.85	18600	<1	0.01
115416	1.09	<0.5	6	<2	0.25	2.9	9	1	3.71	3.71	0.02	23.1	4790	<1	0.01
115417	0.77	<0.5	<5	<2	0.01	<0.5	1	15	2	0.60	0.04	0.03	151	<1	<0.01
115418	1.57	<0.5	<5	<2	0.22	4.7	13	5	14	3.02	0.15	20.00	3670	<1	0.01
115419	0.56	<0.5	11	<2	0.26	2.4	14	4	10	3.55	0.22	20.8	4460	<1	0.02
115420	1.07	0.7	107	<2	0.25	7.5	25	6	23	14.50	0.28	2.40	20500	<1	0.01
115421	1.39	10.3	413	2	0.40	3.7	41	9	231	25.7	0.77	1.35	43400	<1	0.03
115422	0.72	0.9	271	10	0.54	2.2	4	<1	12	20.4	0.11	3.79	58100	<1	0.01



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Method Analyte Units LOR	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Pb-OG62 Pb %	ME-ICP61 Ce ppm	ME-ICP61 Nb ppm	ME-ICP61 Y ppm	PUL-QC Pass75um %
115383	49	220	312	24	45	0.36	112	2190	0.001	0.001	70	13	20	0.01
115384	43	120	438	15	38	0.37	119	3150			70	12	10	
115385	69	130	425	27	36	0.29	112	3110			60	10	20	
115386	69	160	338	21	35	0.23	227	1355			50	9	10	
115387	1	10	6	<5	3	0.11	4	23			<50	<5	<10	
115388	77	110	159	24	21	0.15	213	406			<50	6	10	
115389	56	110	874	81	25	0.16	173	1295			<50	6	10	
115390	35	170	912	70	33	0.14	125	1140			<50	5	10	
115391	29	120	435	28	31	0.10	57	2080			<50	<5	<10	
115392	7	30	501	9	4	<0.01	2	2950			<50	<5	<10	
115393	14	30	554	15	5	0.02	10	6570			<50	<5	<10	
115394	24	50	1455	28	11	0.04	26	5760			<50	<5	<10	
115395	19	60	2070	26	9	0.02	11	>10000	1.105		<50	<5	<10	
115396	23	70	2030	33	11	0.01	12	7040			<50	<5	<10	
115397	14	150	480	24	13	0.04	39	1865			<50	<5	<10	
115398	17	520	296	10	38	0.05	32	>10000	1.125		<50	<5	10	
115399	36	390	2660	20	37	0.05	46	>10000	1.405		<50	<5	30	
115400	41	2180	3350	43	151	0.16	137	3750			60	6	20	
115401	42	1390	1480	39	113	0.31	132	1755			80	9	20	
115402	14	380	>10000	96	7	0.15	54	>10000	3.84	1.340	<50	5	10	
115403	39	1410	1705	33	86	0.16	129	3720			50	6	20	
115404	79	1320	1635	42	95	0.25	262	2800			60	8	20	
115405	22	730	1480	17	33	0.17	82	1695			<50	6	10	
115406	21	180	48	6	5	0.03	23	2100			<50	<5	10	
115407	27	320	687	13	33	0.12	95	3800			<50	7	20	
115408	18	140	510	14	16	0.08	77	2450			<50	7	10	
115409	5	140	2290	12	4	0.02	23	9570			<50	8	10	
115410	33	640	52	14	35	0.35	118	883			70	10	20	
115411	46	290	750	17	34	0.18	76	5580			<50	5	10	
115412	35	140	47	9	5	0.04	29	2150			<50	<5	10	
115413	40	180	20	11	7	0.03	49	2050			<50	9	10	
115414	35	190	52	10	9	0.02	49	3150			<50	10	10	
115415	635	140	133	14	6	0.01	41	4420			<50	13	10	
115416	11	110	27	<5	14	0.01	25	569			<50	12	<10	
115417	1	10	3	<5	3	0.12	2	18			<50	<5	<10	
115418	14	140	44	6	22	0.02	25	619			<50	13	<10	
115419	13	170	34	10	25	0.03	28	644			<50	12	<10	
115420	24	130	674	17	14	0.04	32	3780			<50	6	10	
115421	32	230	442	119	15	0.06	38	3050			<50	<5	10	
115422	5	60	915	18	6	0.01	7	970			<50	7	<10	99.1



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. <g> 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 AS ppm 5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01
115423		2.81	0.9	93	<2	0.37	9.4	20	<1	24	27.6	0.09	5.37	35800	<1	0.01
115424		1.13	<0.5	24	<2	0.33	3.6	23	<1	5	27.3	0.05	6.83	29500	<1	0.01
115425		1.10	<0.5	162	<2	0.35	2.9	6	<1	4	23.9	0.05	3.90	62900	<1	0.01
115426		1.08	1.7	2410	3	0.56	25.1	6	<1	39	28.2	0.04	3.88	73800	<1	0.01



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115423		30	120	480	21	3	0.01	40	3300	0.001	0.001	<50	9	10	0.01
115424		31	110	55	11	1	0.01	27	2070			<50	9	10	
115425		10	100	184	15	6	<0.01	5	1050			<50	7	<10	
115426		7	60	1200	28	1	<0.01	5	5480			<50	7	<10	