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Finalized Date: 29-MAY-2012
Account: WEDES

CERTIFICATE AS12108381

Project: LIMBLA

P.O. No.: LI120515

This report is for 78 Rock samples submitted to our lab in Alice Springs, NT, Australia on 16-MAY-2012.

The following have access to data associated with this certificate:

ANDY BENNETT
GAVIN OTTO

GRAHAM BUBNER

CHRIS GAUGHAN

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
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61r	48 element four acid ICP-MS + REEs	

To: WESTERN DESERT RESOURCES
ATTN: CHRIS GAUGHAN
LEVEL 1, 26 GREENHILL ROAD
WAYVILLE SA 5034

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:

Wayne Abbott, Operations Manager, Western Australia



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CERTIFICATE OF ANALYSIS AS12108381

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2
LI11079		1.00		0.04	5.26	0.8	210	0.91	0.02	0.12	<0.02	96.8	0.9	2	0.70	3.1
LI11080		0.47		<0.01	5.28	2.2	250	0.87	0.03	0.10	0.02	116.5	1.5	5	0.55	6.8
LI11081		0.75		<0.01	7.43	2.8	1050	1.98	0.16	2.35	0.05	91.7	14.3	20	4.70	16.6
LI11082		0.49		<0.01	7.15	1.9	1160	1.96	0.13	2.80	0.03	73.6	13.7	24	4.64	16.8
LI11083		0.87		<0.01	7.38	4.9	600	2.04	0.12	4.83	0.12	98.1	32.8	112	3.41	36.6
LI11084		0.73		<0.01	7.32	24	990	1.82	1.94	10.40	0.57	83.2	16.7	39	0.40	6.4
LI11085		0.93		<0.01	6.20	20	330	1.69	1.73	10.15	0.99	69.8	13.9	22	0.10	4.8
LI11086		1.05		0.06	7.90	21	1260	1.84	2.30	10.70	0.72	104.5	13.1	34	0.34	6.4
LI11087		0.63		0.15	6.24	3.6	280	0.27	1.90	7.97	0.21	15.40	86.5	11	0.11	1390
LI11088		0.55	91.2	<0.01	5.30	1.1	90	0.33	0.20	4.15	0.08	11.30	72.3	1720	0.74	262
LI11089		0.38		0.04	5.22	0.9	160	0.22	0.06	4.72	0.06	8.16	55.5	1400	0.19	85.3
LI11090		0.35		0.03	7.44	0.8	190	0.68	0.25	7.07	0.05	31.1	54.4	76	0.29	25.9
LI11091		0.58		0.02	3.86	1.5	60	0.35	0.12	3.94	0.05	22.1	77.3	1670	0.35	53.1
LI11092		0.55		0.03	1.83	2.8	230	0.31	0.21	4.71	0.05	30.1	81.7	2150	0.10	78.4
LI11093		0.59		0.03	8.91	0.8	120	0.24	0.06	8.26	0.06	14.80	57.0	96	0.28	92.8
LI11094		0.33		0.06	7.77	3.8	270	0.51	0.07	6.51	0.08	32.7	61.5	61	0.23	31.4
LI11095		0.56		0.04	1.86	0.5	30	<0.05	0.04	6.19	0.03	9.44	70.0	2240	0.10	65.3
LI11096		0.42		<0.01	0.33	0.8	70	0.11	0.02	2.20	<0.02	4.62	28.9	83	0.15	19.4
LI11097		0.49		0.02	2.74	1.9	50	0.20	0.18	2.12	0.02	17.50	89.7	2350	0.28	59.1
LI11098		0.36		0.02	6.00	1.2	640	1.02	0.22	7.92	0.05	161.0	56.7	131	0.59	16.9
LI11099		0.23		0.02	2.73	1.2	90	0.15	0.11	4.79	0.03	18.40	60.1	2540	0.23	79.2
LI11100		0.26		0.03	1.11	<5	120	0.12	0.07	22.9	0.06	26.5	42.4	1030	0.19	33.7
LI11101		0.24		0.02	0.21	1.8	40	<0.05	0.87	2.58	<0.02	3.87	7.7	150	0.05	25.1
LI11102		0.44		0.04	0.27	2.0	130	0.19	2.39	0.19	0.07	5.46	6.4	19	0.06	70.0
LI11103		0.74		0.02	0.08	<0.2	90	<0.05	0.02	5.94	0.02	2.13	2.8	46	0.25	9.4
LI11104		0.48		0.03	1.97	4.1	90	0.17	0.17	3.56	0.04	15.05	109.5	2070	0.14	160.0
LI11105		0.54		0.03	2.53	1.7	80	0.14	0.19	3.85	0.04	5.89	75.8	1820	<0.05	42.5
LI11106		0.55		0.03	2.43	3.2	50	0.13	0.06	5.96	0.06	7.89	83.4	1760	0.08	79.5
LI11107		0.40		<0.01	0.12	0.8	120	0.07	0.01	0.98	0.02	1.23	18.8	57	0.21	16.5
LI11108		0.51		0.08	3.60	8	180	0.33	0.11	10.35	0.18	25.4	62.0	1980	0.22	37.0
LI11109		0.36		0.04	3.06	0.7	30	0.22	0.04	4.11	0.04	11.85	77.5	903	<0.05	14.1
LI11110		0.42		0.05	5.20	0.6	230	1.45	0.21	7.38	0.04	51.0	105.5	574	1.87	197.0
LI11111		0.40		<0.01	2.92	1.3	30	0.79	0.14	6.85	0.04	20.9	61.2	2890	0.08	31.2
LI11112		0.51		0.26	4.79	0.4	140	0.60	0.14	7.50	0.08	19.10	47.9	497	17.55	262
LI11113		0.52		0.05	7.38	0.9	130	0.41	0.26	8.18	0.12	27.0	58.2	574	1.90	23.2
LI11114		0.43		0.06	6.49	5.1	90	0.69	0.25	7.92	0.12	42.3	62.4	515	0.52	6.3
LI11115		0.32		0.03	0.37	<0.2	90	<0.05	0.02	6.12	0.02	4.21	6.1	29	0.12	9.6
LI11116		0.21		0.03	6.03	<0.2	200	0.27	0.03	2.74	0.05	122.0	84.9	195	0.07	29.9
LI11117		0.31		0.05	5.06	1.4	50	0.15	0.07	2.74	0.04	11.40	103.0	654	0.17	29.7
LI11118		0.62		0.08	3.61	0.3	90	0.10	0.27	4.11	0.10	8.94	98.6	911	0.27	73.8



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CERTIFICATE OF ANALYSIS AS12108381

Sample Description	Method Analyte Units LOR	ME-MS61r Fe %	ME-MS61r Ga ppm	ME-MS61r Ge ppm	ME-MS61r Hf ppm	ME-MS61r In ppm	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm
		0.01	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
LI11079		1.14	12.80	0.19	2.9	0.026	3.84	43.3	4.1	0.05	78	0.38	1.27	11.0	2.0	130
LI11080		1.28	13.20	0.15	2.7	0.028	3.74	10.6	5.7	0.05	131	0.46	1.33	12.5	3.1	250
LI11081		4.58	20.5	0.20	0.8	0.070	3.46	40.1	16.9	0.88	907	0.55	1.98	17.4	13.3	1800
LI11082		4.46	21.0	0.23	1.1	0.080	3.53	34.3	14.2	0.89	794	0.52	2.09	15.2	14.3	1160
LI11083		6.46	22.0	0.26	0.5	0.083	2.08	47.4	20.9	2.30	1260	0.37	1.39	13.5	40.9	2120
LI11084		4.83	21.1	0.40	1.4	0.226	1.50	46.5	2.1	2.24	5690	0.69	0.21	11.3	30.7	670
LI11085		4.81	17.15	0.33	0.9	0.104	0.40	32.8	1.6	2.74	17650	0.45	0.12	8.6	20.1	510
LI11086		4.46	23.1	0.34	1.4	0.221	1.92	54.0	1.5	2.14	6620	0.53	0.18	15.9	23.6	890
LI11087		18.90	15.80	0.95	0.6	0.390	0.76	7.3	7.1	3.32	2550	0.20	0.90	3.8	39.2	670
LI11088		9.13	10.90	0.49	0.3	0.079	0.21	4.7	13.5	9.58	1550	0.16	1.09	0.6	588	450
LI11089		6.69	11.95	0.46	0.3	0.045	0.24	3.6	14.4	9.10	1200	0.18	1.21	0.6	538	450
LI11090		11.65	22.6	0.61	0.8	0.083	0.41	18.0	13.0	4.09	1450	0.69	1.79	3.3	77.9	2310
LI11091		7.22	7.99	0.37	0.6	0.037	0.11	9.9	2.4	14.85	1230	0.11	0.41	2.8	654	780
LI11092		7.65	6.26	0.62	0.5	0.035	0.09	13.5	1.1	14.85	1310	0.15	0.50	3.0	781	650
LI11093		7.21	19.05	0.40	0.4	0.054	0.50	6.2	12.9	5.59	1140	0.05	0.98	0.4	162.5	170
LI11094		8.05	18.95	0.86	0.7	0.067	0.68	17.0	11.8	4.96	1170	0.13	1.83	1.9	144.0	1260
LI11095		7.78	5.26	0.13	0.1	0.019	0.02	4.0	1.6	14.65	1450	0.09	0.04	0.7	678	300
LI11096		1.36	0.84	<0.05	0.1	<0.005	0.05	2.3	1.4	2.21	230	0.17	0.02	0.3	154.5	430
LI11097		7.54	6.34	0.31	0.3	0.036	0.03	8.2	1.2	16.50	1010	0.18	0.04	1.8	1020	570
LI11098		6.74	13.05	0.71	1.2	0.088	0.33	98.7	21.8	5.73	1150	0.75	1.60	13.0	203	3200
LI11099		6.85	9.08	0.24	0.2	0.024	0.06	10.3	3.2	14.50	1590	0.17	0.22	3.3	423	930
LI11100		3.01	3.02	0.08	0.4	0.015	0.10	13.3	1.9	8.53	562	0.10	0.18	1.0	325	330
LI11101		1.24	0.68	<0.05	0.1	<0.005	0.02	2.6	0.6	0.93	209	0.29	0.03	0.2	51.7	80
LI11102		1.91	1.18	<0.05	<0.1	<0.005	0.09	2.3	1.1	0.10	166	167.0	0.01	0.4	12.7	130
LI11103		0.65	0.35	0.11	<0.1	<0.005	0.04	0.9	4.1	22.0	84	1.92	0.03	0.1	16.5	100
LI11104		8.63	6.66	0.52	0.3	0.033	0.06	6.1	0.5	15.00	1410	2.09	0.24	0.9	844	630
LI11105		7.79	7.49	0.52	0.3	0.032	0.05	2.5	1.0	13.25	1170	0.27	0.31	0.8	779	230
LI11106		9.65	6.87	0.19	0.4	0.028	0.04	3.9	1.1	15.85	2810	0.40	0.13	1.0	833	1000
LI11107		1.44	0.40	0.06	<0.1	<0.005	0.03	0.6	1.3	2.66	196	0.45	0.01	0.2	199.0	230
LI11108		6.86	10.25	0.19	1.7	0.073	0.12	9.5	6.3	11.80	1390	0.16	0.46	2.2	446	480
LI11109		4.58	10.50	0.37	0.9	0.030	0.04	5.0	0.7	14.85	834	0.11	0.06	5.1	687	780
LI11110		10.70	13.85	0.72	1.1	0.095	0.47	26.0	8.5	7.35	1480	0.31	1.05	5.7	356	490
LI11111		6.23	8.40	0.58	0.6	0.043	0.07	7.1	0.5	14.05	899	0.07	0.34	2.3	458	320
LI11112		5.95	9.73	0.29	0.5	0.047	0.22	7.8	10.6	8.86	1270	0.15	1.39	1.2	277	690
LI11113		6.65	12.20	0.52	0.4	0.066	0.35	11.6	25.9	8.25	1280	0.17	1.11	0.7	448	230
LI11114		7.13	13.85	0.62	0.6	0.077	0.23	20.6	28.0	7.77	1350	0.17	1.08	2.4	401	180
LI11115		0.45	0.87	0.10	<0.1	<0.005	0.02	2.4	4.2	24.2	87	<0.05	0.06	0.2	51.6	140
LI11116		4.64	11.80	0.50	1.3	0.030	0.03	55.4	1.7	16.45	1500	0.17	0.04	3.4	649	820
LI11117		7.25	10.40	0.40	0.4	0.025	0.03	5.0	3.7	16.45	1210	0.28	0.05	1.4	849	640
LI11118		9.27	5.09	0.19	0.3	0.030	0.11	4.0	5.8	14.95	1370	0.10	0.51	0.7	1130	60



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Sample Description	Method Analyte Units LOR	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.2	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1
LI11079		13.3	268	0.002	<0.01	0.06	2.5	1	1.1	26.7	0.48	<0.05	37.0	0.075	0.88	1.4
LI11080		10.6	254	0.002	<0.01	0.08	3.2	<1	1.3	31.3	0.48	0.05	37.1	0.073	0.65	1.5
LI11081		14.0	173.5	0.002	0.01	0.21	18.3	3	2.4	183.5	1.24	<0.05	9.4	0.509	0.81	1.6
LI11082		12.4	164.0	0.002	<0.01	0.15	17.8	3	2.8	204	1.03	<0.05	10.4	0.476	0.82	1.1
LI11083		14.9	95.1	0.002	0.01	0.26	29.5	3	2.5	239	0.91	<0.05	9.7	0.746	0.53	0.7
LI11084		67.1	43.4	0.002	<0.01	4.66	15.7	3	12.4	214	1.05	<0.05	13.9	0.334	0.19	2.6
LI11085		58.7	12.6	0.002	<0.01	2.82	10.6	3	7.3	123.0	0.89	<0.05	11.6	0.173	0.05	2.1
LI11086		80.7	50.2	0.002	<0.01	4.36	16.6	3	14.0	206	1.52	<0.05	19.9	0.302	0.23	3.2
LI11087		5.1	10.5	<0.002	<0.01	0.93	25.3	2	7.3	64.3	0.24	0.16	0.7	0.428	0.08	0.2
LI11088		1.3	10.2	0.002	<0.01	0.15	31.1	1	1.2	124.0	0.06	0.06	0.5	0.177	<0.02	0.1
LI11089		5.5	14.1	0.002	<0.01	0.09	31.4	2	0.5	103.5	<0.05	<0.05	0.3	0.122	0.08	0.1
LI11090		10.9	10.1	<0.002	0.04	0.10	38.1	2	3.8	429	0.27	<0.05	0.9	1.050	0.07	1.2
LI11091		1.6	5.4	<0.002	<0.01	0.13	24.2	2	0.8	87.8	0.21	<0.05	1.3	0.218	0.04	0.6
LI11092		1.6	1.4	0.002	0.01	0.17	11.9	2	1.0	107.5	0.20	<0.05	1.6	0.202	0.02	0.4
LI11093		13.1	21.3	<0.002	<0.01	0.09	46.0	2	0.6	604	<0.05	<0.05	0.3	0.162	0.15	0.1
LI11094		8.9	36.4	<0.002	<0.01	0.30	39.1	2	1.1	409	0.15	<0.05	1.9	0.517	0.14	0.4
LI11095		0.9	1.3	<0.002	<0.01	0.10	12.7	2	0.3	325	0.05	<0.05	0.7	0.087	0.02	0.2
LI11096		0.7	2.8	<0.002	<0.01	0.10	1.5	1	0.2	41.0	<0.05	<0.05	0.7	0.020	0.02	2.3
LI11097		0.7	2.5	<0.002	<0.01	0.25	16.2	2	0.6	62.4	0.15	<0.05	2.1	0.124	0.03	0.3
LI11098		9.2	2.7	0.002	<0.01	0.10	31.6	3	2.3	1420	0.97	<0.05	11.0	0.828	0.03	2.5
LI11099		2.8	1.7	<0.002	<0.01	0.07	19.9	2	0.5	165.0	0.27	<0.05	1.6	0.277	<0.02	0.4
LI11100		3.6	2.4	<0.002	<0.01	0.08	14.7	2	0.3	433	0.07	<0.05	1.9	0.083	0.05	1.1
LI11101		1.9	0.6	<0.002	<0.01	0.07	1.9	1	0.2	39.1	<0.05	0.48	0.3	0.015	<0.02	0.5
LI11102		2.1	3.9	0.002	0.02	0.07	1.1	1	0.3	13.3	<0.05	1.33	0.4	0.010	<0.02	0.8
LI11103		<0.5	3.3	<0.002	0.01	0.05	0.9	2	0.2	266	<0.05	<0.05	<0.2	0.006	0.02	0.5
LI11104		2.1	2.5	<0.002	<0.01	0.22	10.5	2	0.5	66.9	0.06	0.05	0.5	0.159	0.02	0.3
LI11105		2.5	0.9	<0.002	<0.01	0.28	10.5	2	0.3	76.7	0.05	<0.05	0.2	0.145	0.02	0.1
LI11106		0.6	1.6	<0.002	<0.01	0.26	26.9	2	0.4	164.0	0.07	0.05	0.5	0.249	0.04	0.4
LI11107		<0.5	1.3	<0.002	0.01	0.17	1.1	<1	0.2	37.6	<0.05	0.05	0.2	0.016	<0.02	3.5
LI11108		14.5	3.6	<0.002	0.04	0.07	59.9	3	1.0	170.0	0.15	0.05	0.7	0.464	0.03	0.2
LI11109		2.0	0.2	<0.002	<0.01	0.09	6.4	2	0.6	40.2	0.63	<0.05	18.0	0.257	0.02	1.3
LI11110		269	22.9	0.002	<0.01	0.20	40.8	3	5.2	338	0.54	<0.05	10.0	0.385	0.06	1.1
LI11111		3.0	0.8	<0.002	<0.01	0.22	49.0	3	1.9	57.4	0.18	<0.05	2.4	0.238	<0.02	0.6
LI11112		12.2	17.6	<0.002	<0.01	0.80	39.9	2	1.3	376	0.12	<0.05	1.8	0.203	0.08	0.3
LI11113		7.3	35.5	<0.002	<0.01	0.57	39.5	2	2.4	304	0.05	<0.05	0.7	0.153	0.06	0.4
LI11114		7.9	13.1	<0.002	<0.01	0.57	40.3	2	3.9	403	0.16	<0.05	1.5	0.186	0.03	0.5
LI11115		0.6	1.5	<0.002	<0.01	0.05	1.7	1	0.2	193.5	<0.05	<0.05	<0.2	0.011	0.02	0.1
LI11116		0.5	2.4	<0.002	0.01	<0.05	20.7	2	0.9	31.5	1.02	<0.05	18.1	0.208	0.02	1.0
LI11117		<0.5	1.7	<0.002	<0.01	0.16	22.6	2	0.5	14.1	0.13	<0.05	1.4	0.155	0.03	0.4
LI11118		9.0	3.5	0.002	0.01	0.18	16.8	1	0.4	132.0	0.05	<0.05	0.5	0.069	0.05	0.4



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Sample Description	Method Analyte Units LOR	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01
LI11079		5	0.3	24.6	9	76.4	4.32	2.23	0.41	4.91	0.81	0.28	33.6	9.45	5.89	0.67
LI11080		5	0.3	15.0	8	83.4	2.28	1.51	0.16	1.83	0.45	0.26	9.3	2.49	1.96	0.36
LI11081		67	0.9	32.3	86	28.1	6.30	3.46	2.41	7.06	1.31	0.46	39.0	11.85	8.04	1.18
LI11082		71	0.7	30.5	63	45.2	6.05	3.44	2.04	6.50	1.31	0.46	35.1	10.55	7.25	1.12
LI11083		145	0.5	36.2	119	12.8	7.08	3.91	2.48	7.99	1.50	0.52	45.0	13.75	9.00	1.31
LI11084		81	0.7	38.1	245	35.8	6.60	3.69	1.56	6.82	1.42	0.47	38.5	11.90	7.50	1.18
LI11085		48	0.4	45.4	298	23.8	7.95	5.28	1.27	7.81	1.78	0.96	33.6	10.25	7.74	1.42
LI11086		67	0.7	61.4	257	34.3	10.80	6.07	1.97	10.60	2.35	0.74	49.2	14.75	10.65	1.93
LI11087		181	0.4	26.1	149	8.8	3.98	2.49	1.70	3.72	0.92	0.36	8.2	2.15	2.83	0.69
LI11088		156	0.2	14.2	113	4.6	2.35	1.28	0.71	2.30	0.47	0.19	7.2	1.37	1.93	0.35
LI11089		124	0.6	10.7	97	7.6	1.66	0.99	0.49	1.63	0.38	0.15	4.2	1.09	1.23	0.29
LI11090		435	1.5	23.2	129	20.4	3.83	2.08	1.43	4.28	0.80	0.28	18.5	4.86	4.45	0.73
LI11091		107	0.3	14.8	83	15.1	2.36	1.32	0.79	2.71	0.50	0.18	12.1	3.14	2.94	0.45
LI11092		104	0.5	14.6	84	12.5	2.54	1.33	0.93	3.08	0.52	0.18	16.1	4.17	3.59	0.49
LI11093		228	0.4	11.5	68	7.3	1.97	1.11	0.95	2.11	0.41	0.16	8.2	2.02	2.07	0.36
LI11094		273	0.5	21.4	96	13.5	3.61	1.99	1.35	4.14	0.75	0.26	19.4	5.21	4.38	0.68
LI11095		77	0.3	5.5	79	4.9	0.86	0.51	0.22	1.00	0.19	0.08	4.7	1.25	1.09	0.16
LI11096		11	1.9	2.0	16	4.4	0.35	0.19	0.11	0.44	0.07	0.03	1.9	0.57	0.46	0.07
LI11097		69	0.3	6.9	97	8.6	1.16	0.65	0.37	1.33	0.24	0.10	6.9	2.04	1.48	0.22
LI11098		262	2.8	33.7	105	28.1	7.15	3.73	2.95	10.00	1.44	0.47	63.4	19.15	12.75	1.45
LI11099		139	0.5	13.1	108	5.7	2.12	1.19	0.47	2.26	0.45	0.16	8.4	2.16	2.28	0.39
LI11100		67	0.4	7.6	36	12.7	1.42	0.61	0.84	2.29	0.25	0.08	14.8	3.86	3.22	0.31
LI11101		11	0.2	1.6	7	1.8	0.29	0.17	0.12	0.36	0.06	0.03	2.1	0.61	0.46	0.05
LI11102		21	0.7	2.8	5	1.4	0.43	0.34	0.07	0.38	0.10	0.09	1.5	0.46	0.35	0.07
LI11103		4	0.1	0.7	5	1.4	0.11	0.06	0.05	0.17	0.02	0.01	0.9	0.24	0.18	0.03
LI11104		90	0.5	9.1	93	8.6	1.60	0.86	0.54	1.84	0.34	0.12	7.7	2.00	1.93	0.31
LI11105		82	0.4	6.2	73	8.0	1.09	0.61	0.32	1.12	0.23	0.09	3.4	0.83	0.94	0.19
LI11106		137	0.4	10.5	123	9.5	1.60	0.99	0.35	1.73	0.36	0.16	5.5	1.24	1.51	0.29
LI11107		10	0.3	1.1	15	2.0	0.18	0.11	0.05	0.22	0.04	0.02	0.8	0.16	0.18	0.03
LI11108		179	0.7	27.0	79	51.9	4.57	2.52	1.43	5.03	0.97	0.32	14.8	3.64	4.42	0.84
LI11109		67	1.2	11.5	64	32.1	1.92	1.19	0.42	1.93	0.42	0.16	6.1	1.52	1.66	0.34
LI11110		158	38.1	31.3	122	31.3	4.93	2.96	3.23	5.30	1.06	0.44	22.5	6.39	5.37	0.94
LI11111		130	1.2	19.5	78	11.6	3.15	1.75	0.85	3.52	0.67	0.22	11.9	2.80	3.33	0.58
LI11112		141	1.6	15.8	65	10.5	2.36	1.45	0.65	2.32	0.51	0.20	8.2	2.03	2.14	0.44
LI11113		104	1.4	8.8	66	12.5	1.38	0.81	0.73	1.54	0.29	0.11	8.4	2.37	1.76	0.27
LI11114		119	0.5	15.8	69	17.1	2.51	1.47	1.06	2.77	0.53	0.20	16.2	4.46	3.47	0.50
LI11115		7	0.2	1.0	5	1.4	0.16	0.10	0.06	0.19	0.03	0.02	1.3	0.38	0.24	0.03
LI11116		83	0.1	12.2	107	35.6	2.01	1.10	0.55	3.22	0.40	0.14	40.7	12.00	5.69	0.46
LI11117		90	0.3	9.6	76	12.1	1.42	0.93	0.23	1.34	0.33	0.12	4.8	1.14	1.30	0.26
LI11118		62	0.8	3.4	57	10.0	0.53	0.33	0.26	0.55	0.11	0.05	3.0	0.82	0.64	0.10



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Tm	Yb	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm
		0.01	0.03	0.001	0.005	0.001
LI11079		0.29	1.82	<0.001	<0.005	<0.001
LI11080		0.23	1.47	<0.001	<0.005	<0.001
LI11081		0.50	2.89	<0.001	<0.005	<0.001
LI11082		0.51	3.00	<0.001	<0.005	<0.001
LI11083		0.58	3.41	0.030	<0.005	<0.001
LI11084		0.53	3.02	<0.001	<0.005	<0.001
LI11085		0.90	5.97	<0.001	<0.005	<0.001
LI11086		0.87	4.85	0.001	<0.005	<0.001
LI11087		0.39	2.30	0.003	<0.005	<0.001
LI11088		0.19	1.24	0.004	0.011	0.005
LI11089		0.15	0.92	<0.001	0.005	0.002
LI11090		0.31	1.81	<0.001	<0.005	<0.001
LI11091		0.19	1.13	<0.001	<0.005	0.001
LI11092		0.20	1.14	<0.001	<0.005	0.001
LI11093		0.16	0.99	0.001	<0.005	<0.001
LI11094		0.28	1.67	<0.001	<0.005	<0.001
LI11095		0.07	0.47	0.001	<0.005	0.002
LI11096		0.03	0.17	0.001	<0.005	0.002
LI11097		0.10	0.58	<0.001	<0.005	0.001
LI11098		0.53	3.11	<0.001	<0.005	0.001
LI11099		0.18	1.05	<0.001	<0.005	<0.001
LI11100		0.08	0.49	0.001	<0.005	0.007
LI11101		0.03	0.19	<0.001	<0.005	<0.001
LI11102		0.06	0.47	<0.001	<0.005	<0.001
LI11103		0.01	0.06	0.002	<0.005	0.024
LI11104		0.13	0.75	<0.001	<0.005	<0.001
LI11105		0.09	0.57	<0.001	<0.005	0.001
LI11106		0.15	0.97	<0.001	<0.005	0.001
LI11107		0.02	0.11	0.001	<0.005	0.001
LI11108		0.37	2.13	0.001	<0.005	0.003
LI11109		0.17	1.07	<0.001	<0.005	<0.001
LI11110		0.46	2.81	0.001	<0.005	0.001
LI11111		0.25	1.43	<0.001	<0.005	<0.001
LI11112		0.21	1.31	0.002	0.005	0.001
LI11113		0.11	0.71	<0.001	0.018	0.003
LI11114		0.21	1.34	<0.001	<0.005	0.002
LI11115		0.01	0.09	0.001	<0.005	0.001
LI11116		0.15	0.98	<0.001	<0.005	<0.001
LI11117		0.13	0.83	<0.001	<0.005	<0.001
LI11118		0.05	0.31	0.001	<0.005	0.002



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2
Sample Description															
LI11119	0.99		0.05	0.13	2.2	10	0.06	0.07	0.06	<0.02	5.56	1.6	11	<0.05	26.5
LI11120	0.34		0.05	0.15	4.0	20	0.36	0.40	0.07	0.02	5.03	25.7	10	<0.05	131.0
LI11121	0.17		0.46	0.31	14.0	260	0.72	15.65	0.12	0.08	17.90	546	4	0.15	4900
LI11122	0.54		0.03	6.99	0.9	750	2.48	0.19	0.93	<0.02	62.5	7.7	4	0.45	58.1
LI11123	0.29		0.02	4.46	0.9	300	0.88	0.05	0.12	0.02	14.05	2.4	5	0.18	18.0
LI11124	0.21		0.03	0.16	1.2	20	<0.05	0.02	0.09	<0.02	3.36	2.5	12	<0.05	24.6
LI11125	0.60		1.38	0.37	2.6	730	<0.05	0.54	0.36	20.9	19.60	47.6	4	0.05	1190
LI11125A	0.44		0.13	9.44	2.3	1240	2.27	0.16	3.16	0.71	105.0	22.2	29	4.19	58.9
LI11126	0.38		0.03	0.64	1.2	250	0.28	0.03	0.06	0.11	21.6	1.8	8	0.23	13.2
LI11127	0.41	90.8	0.06	3.59	0.2	390	0.28	0.15	8.19	0.15	14.80	54.6	1050	0.43	146.0
LI11128	0.20		0.02	6.50	0.6	880	1.71	0.02	1.06	0.04	25.0	5.6	66	0.81	13.5
LI11129	0.54		0.04	3.18	<0.2	70	0.62	0.08	6.82	0.09	35.6	59.1	694	0.13	114.0
LI11130	0.41		0.07	3.42	0.8	270	1.11	0.04	1.18	0.10	26.4	6.0	20	0.70	47.6
LI11131	0.66		0.07	0.63	<5	170	0.10	0.04	24.8	0.05	7.53	4.1	9	0.23	16.3
LI11132	3.62		0.04	6.48	6.6	470	1.09	0.16	9.40	0.08	66.0	30.1	69	0.96	42.9
LI11133	3.24		0.08	5.42	10	280	0.67	0.09	11.45	0.09	44.6	28.6	73	1.53	47.4
LI11134	0.63		0.02	6.84	1.5	140	2.22	0.09	1.47	0.02	26.2	2.2	4	1.61	8.4
LI11135	0.38		<0.01	7.11	5.9	1870	5.36	0.22	1.58	0.03	24.7	6.4	8	1.78	6.3
LI11136	0.95		<0.01	7.27	0.6	510	1.15	0.09	3.71	0.05	78.0	24.2	81	0.94	33.6
LI11137	1.38		0.03	4.09	<5	2410	0.52	0.03	22.0	0.03	31.4	16.2	32	1.70	38.7
LI11138	0.76		0.03	4.59	3.4	510	0.78	0.02	1.03	0.03	14.95	3.7	8	0.14	8.2
LI11139	0.77		0.03	6.71	1.7	370	0.25	0.01	0.58	0.02	30.9	48.8	955	0.15	9.8
LI11140	0.79		0.03	9.12	8.0	440	2.37	0.05	3.32	0.05	35.5	10.3	28	0.34	6.0
LI11141	1.88		0.04	7.94	3.9	220	1.01	0.03	4.56	0.04	19.95	19.3	72	0.19	3.2
LI11142	1.08		0.04	1.37	<5	80	0.07	0.03	18.50	0.15	7.38	9.8	9	0.14	3.7
LI11143	0.31		0.03	9.99	1.6	590	1.27	0.11	2.95	0.09	64.5	26.7	66	0.33	47.3
LI11144	0.46		0.07	1.52	<5	180	0.15	0.05	13.65	0.15	9.79	41.9	7	0.15	141.0
LI11145	0.30		0.02	0.75	1.0	80	0.12	0.02	0.29	<0.02	5.94	2.8	11	0.05	8.1
LI11146	0.23		0.02	9.58	1.1	50	0.77	0.01	0.52	0.02	1.65	19.3	49	<0.05	3.7
LI11147	0.76		<0.01	9.74	0.9	240	0.59	0.36	6.92	0.04	29.9	12.2	4	0.17	46.9
LI11148	0.44		0.05	10.15	12	70	0.26	0.65	12.60	0.04	78.1	4.9	39	0.05	15.8
LI11149	0.41		0.02	7.81	3.3	220	1.38	0.10	6.30	0.04	30.1	41.6	80	0.17	25.8
LI11150	0.38		0.02	5.06	1.7	80	0.97	0.28	8.48	0.04	64.7	44.6	447	0.43	22.5
LI11151	0.46		0.09	6.59	2.3	220	0.98	0.08	7.95	0.07	64.3	42.4	70	0.10	648
LI11152	0.48		0.04	6.50	3.0	370	1.26	0.18	4.78	0.04	58.6	20.9	110	3.75	27.4
LI11153	0.61		0.02	7.67	0.6	830	1.33	0.01	2.81	0.06	87.8	11.9	22	0.37	47.2
LI11154	0.46		<0.01	7.79	1.8	1950	0.83	0.03	3.27	0.09	234	14.4	8	0.50	25.7
LI11155	0.91		0.05	7.77	155.5	280	1.13	0.05	6.47	0.21	47.1	51.0	18	0.10	39.3



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Sample Description	Method Analyte Units LOR	ME-MS61r Fe %	ME-MS61r Ga ppm	ME-MS61r Ge ppm	ME-MS61r Hf ppm	ME-MS61r In ppm	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm	ME-MS61r P ppm
		0.01	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
LI11119		1.80	1.48	<0.05	<0.1	0.021	0.01	5.5	0.5	0.13	63	0.59	0.01	0.4	11.4	120
LI11120		2.49	0.73	<0.05	0.1	<0.005	0.03	4.0	0.8	0.06	126	1.82	0.04	0.1	100.5	40
LI11121		40.5	5.26	2.08	0.1	<0.005	0.06	15.3	0.6	0.10	597	35.3	0.01	0.4	469	900
LI11122		1.00	18.15	0.11	0.9	<0.005	2.65	30.5	6.1	0.06	123	0.61	2.64	1.6	9.7	100
LI11123		0.97	12.90	<0.05	0.8	<0.005	1.11	8.1	3.1	0.07	154	0.28	1.66	1.5	4.0	100
LI11124		1.24	0.68	<0.05	<0.1	<0.005	0.03	1.5	0.3	0.09	105	0.31	0.05	0.1	10.5	70
LI11125		33.3	1.36	0.38	<0.1	0.015	0.10	10.1	0.8	0.07	578	7.08	0.05	0.6	60.6	820
LI11125A		7.42	27.1	0.27	0.9	0.102	3.31	45.0	14.5	1.30	1630	1.35	2.23	16.8	18.9	2140
LI11126		1.11	2.39	<0.05	0.1	0.005	0.25	9.4	1.8	0.05	343	0.59	0.06	1.0	3.1	90
LI11127		5.62	8.33	0.13	0.8	0.035	0.21	6.3	8.5	10.75	1230	0.25	0.48	0.9	363	120
LI11128		2.52	18.10	0.11	2.2	0.005	3.86	10.0	4.5	0.41	232	0.93	1.97	1.3	23.9	70
LI11129		6.44	10.70	0.20	1.0	0.060	0.20	15.0	6.7	9.65	1390	0.16	0.52	1.9	527	350
LI11130		1.63	9.04	<0.05	0.9	0.018	0.41	14.4	4.6	0.38	273	0.44	1.46	3.6	16.2	580
LI11131		0.43	1.64	<0.05	0.2	<0.005	0.14	3.9	3.9	7.81	117	0.25	0.11	0.7	4.9	250
LI11132		5.13	14.90	0.40	0.6	0.066	0.98	31.7	12.2	4.04	1030	0.65	1.93	6.0	45.4	750
LI11133		4.46	12.25	0.17	0.5	0.049	0.82	25.7	15.6	4.96	867	0.63	1.32	4.6	37.1	510
LI11134		0.65	14.35	0.07	3.8	0.005	2.85	7.2	2.5	0.28	178	0.16	2.91	7.3	2.3	30
LI11135		1.75	19.65	0.06	2.4	0.014	3.53	10.6	4.1	0.35	305	0.34	2.44	6.1	5.7	280
LI11136		3.83	15.80	0.14	1.6	0.038	1.88	39.6	7.4	1.92	663	0.25	2.32	5.4	46.5	410
LI11137		2.17	8.41	0.05	0.1	0.022	0.44	20.3	9.3	1.46	484	<0.05	0.92	0.6	22.9	250
LI11138		1.10	5.92	<0.05	0.4	<0.005	0.20	8.0	4.3	0.15	186	0.17	2.61	0.8	7.7	40
LI11139		6.83	15.45	0.36	0.7	0.023	0.09	17.7	34.3	8.49	2580	0.15	0.04	4.2	480	430
LI11140		3.37	16.75	0.23	0.2	0.023	1.31	15.5	12.4	1.67	787	0.08	3.55	1.2	53.3	920
LI11141		5.80	15.75	0.31	0.3	0.021	0.59	8.5	25.4	3.87	1120	0.07	1.66	0.9	79.6	790
LI11142		7.51	2.66	0.06	0.1	0.025	0.19	3.3	2.2	5.94	4180	0.17	0.16	0.3	47.5	220
LI11143		5.69	25.3	0.39	0.2	0.068	1.44	26.3	15.5	2.10	879	0.23	2.45	2.9	66.8	3350
LI11144		5.79	2.92	0.07	<0.1	0.017	0.41	5.3	1.9	5.05	3110	0.35	0.28	0.4	19.6	830
LI11145		1.51	1.79	0.06	<0.1	<0.005	0.13	2.7	1.3	0.16	239	0.59	0.12	0.3	9.2	310
LI11146		5.10	20.8	0.11	0.3	0.016	<0.01	0.8	3.1	2.64	302	0.14	1.17	0.3	270	910
LI11147		5.52	35.2	0.20	1.3	0.114	0.72	12.4	4.9	0.75	772	0.08	3.72	15.0	6.7	810
LI11148		7.76	57.5	0.61	0.4	0.287	0.13	39.8	0.6	0.50	1100	0.19	0.23	2.3	4.0	440
LI11149		8.00	21.0	0.34	1.6	0.092	0.88	16.8	5.4	3.04	1290	0.63	2.04	6.8	61.9	770
LI11150		6.87	16.95	0.46	1.3	0.114	0.35	27.5	7.6	9.31	1570	0.10	1.25	6.2	424	570
LI11151		15.60	34.5	1.01	2.6	0.107	0.28	28.0	9.3	4.15	1380	0.58	0.92	6.1	75.4	2410
LI11152		5.73	17.90	0.19	1.7	0.057	1.20	28.3	27.5	2.00	897	0.62	2.52	6.6	65.3	950
LI11153		5.93	23.1	0.25	1.2	0.072	1.77	44.2	6.9	0.84	996	0.93	2.39	17.0	16.7	1440
LI11154		8.10	22.6	0.39	2.5	0.113	3.88	99.3	3.0	0.79	1240	2.19	2.26	30.0	8.7	2560
LI11155		14.60	26.0	0.62	0.9	0.207	0.37	24.1	1.8	2.68	2090	0.44	1.89	10.0	22.5	1270



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U
		ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2	% 0.005	ppm 0.02	ppm 0.1
LI11119		1.2	0.6	<0.002	0.01	<0.05	1.3	<1	0.3	3.6	<0.05	0.12	0.4	0.017	<0.02	0.2
LI11120		13.7	1.6	<0.002	0.01	0.15	0.3	1	0.2	4.2	<0.05	0.38	0.7	<0.005	<0.02	17.6
LI11121		9.7	3.1	<0.002	0.07	0.31	0.5	24	0.2	31.9	<0.05	11.35	0.3	0.007	0.04	52.4
LI11122		23.5	143.0	<0.002	<0.01	0.06	0.6	2	0.4	260	0.18	0.13	43.0	0.025	0.54	7.3
LI11123		8.2	60.5	<0.002	0.01	0.05	0.7	1	0.7	65.4	0.18	<0.05	13.4	0.018	0.16	2.3
LI11124		<0.5	1.8	<0.002	<0.01	0.07	0.3	1	0.2	4.6	<0.05	<0.05	0.9	0.007	<0.02	0.2
LI11125		41.4	4.4	<0.002	0.30	0.07	1.8	8	0.5	43.3	<0.05	1.32	0.5	0.017	0.03	4.4
LI11125A		20.7	182.0	0.003	0.02	0.16	24.3	4	2.5	241	1.05	0.05	10.3	0.680	0.82	2.0
LI11126		6.9	13.7	<0.002	<0.01	0.07	1.0	1	0.8	8.7	0.07	<0.05	1.6	0.021	0.05	0.5
LI11127		3.0	11.9	0.002	0.03	0.09	50.3	2	0.7	73.9	0.09	<0.05	1.7	0.138	0.08	0.4
LI11128		26.5	135.0	<0.002	<0.01	<0.05	2.5	1	1.8	132.5	0.21	<0.05	25.7	0.105	0.51	3.6
LI11129		1.5	4.8	<0.002	<0.01	0.11	49.9	2	1.1	47.9	0.16	<0.05	2.0	0.142	0.02	0.4
LI11130		12.4	29.5	<0.002	<0.01	0.05	4.3	1	1.3	84.2	0.38	<0.05	9.4	0.097	0.13	1.0
LI11131		1.0	10.2	<0.002	0.02	0.08	1.6	2	0.3	838	0.05	<0.05	0.9	0.033	0.05	5.0
LI11132		8.0	53.0	<0.002	0.08	0.23	25.2	3	1.6	806	0.49	<0.05	4.9	0.388	0.22	4.3
LI11133		7.7	49.5	0.002	0.05	0.24	23.0	3	1.0	652	0.35	0.05	4.9	0.314	0.19	13.1
LI11134		46.0	166.5	<0.002	<0.01	0.14	1.8	2	0.7	99.2	2.19	<0.05	46.8	0.036	0.59	10.3
LI11135		20.2	92.0	0.002	<0.01	0.29	7.3	2	1.9	402	4.35	<0.05	7.6	0.110	0.32	1.3
LI11136		9.7	69.7	0.002	<0.01	0.10	19.2	3	1.2	140.0	0.48	<0.05	15.8	0.279	0.24	1.6
LI11137		3.4	36.5	0.002	0.05	<0.05	8.1	2	0.8	299	0.05	<0.05	1.4	0.085	0.16	0.9
LI11138		4.3	9.6	<0.002	0.02	0.17	1.6	1	0.3	128.5	0.06	<0.05	7.8	0.034	0.04	1.3
LI11139		1.4	3.1	<0.002	<0.01	0.08	21.0	2	0.9	13.5	0.32	<0.05	4.6	0.257	0.02	0.8
LI11140		5.7	19.4	0.002	<0.01	0.16	10.8	2	0.9	401	0.08	<0.05	1.9	0.099	0.13	0.4
LI11141		3.2	12.8	<0.002	<0.01	0.10	10.4	2	0.5	226	0.06	<0.05	1.6	0.082	0.06	0.2
LI11142		5.3	6.7	<0.002	<0.01	0.08	9.0	2	0.2	281	<0.05	<0.05	0.2	0.023	0.03	0.4
LI11143		8.7	21.2	0.002	<0.01	0.06	23.9	3	2.5	532	0.19	<0.05	1.6	0.234	0.15	0.7
LI11144		4.1	12.8	<0.002	0.04	<0.05	4.4	2	0.4	218	<0.05	<0.05	0.2	0.034	0.04	0.3
LI11145		5.2	4.1	<0.002	<0.01	0.06	1.5	1	0.3	28.6	<0.05	<0.05	0.3	0.023	<0.02	0.2
LI11146		3.7	<0.1	<0.002	<0.01	0.11	6.7	2	0.5	252	0.05	<0.05	0.2	0.207	<0.02	0.3
LI11147		6.4	13.5	0.002	<0.01	0.08	18.5	4	6.1	757	3.37	<0.05	11.4	0.324	0.16	18.7
LI11148		10.6	4.3	<0.002	<0.01	0.21	22.6	4	14.5	1230	0.38	<0.05	4.2	0.106	0.03	28.7
LI11149		6.3	14.4	0.002	<0.01	0.07	40.2	3	2.9	167.5	0.75	<0.05	2.8	0.669	0.10	1.7
LI11150		9.4	14.1	<0.002	<0.01	0.21	40.1	3	6.5	211	0.79	<0.05	5.2	0.373	0.05	3.9
LI11151		3.7	7.8	0.002	<0.01	0.13	37.5	4	3.7	492	0.35	<0.05	1.3	1.230	0.04	2.6
LI11152		10.2	58.5	<0.002	0.21	0.13	15.7	2	2.3	466	0.66	0.05	11.4	0.520	0.31	3.3
LI11153		10.0	49.8	<0.002	<0.01	<0.05	18.2	3	0.8	235	0.88	<0.05	5.7	0.628	0.25	0.8
LI11154		21.4	139.0	0.002	0.01	<0.05	25.3	5	4.3	598	3.12	<0.05	12.0	0.853	0.58	1.8
LI11155		4.6	8.1	0.002	0.01	0.10	46.1	4	1.2	159.5	0.83	<0.05	1.2	1.535	0.03	0.3



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Sample Description	Method Analyte Units LOR	ME-MS61r V ppm 1	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01
LI11119		6	0.1	0.9	7	1.2	0.18	0.09	0.05	0.20	0.03	0.01	1.6	0.56	0.27	0.04
LI11120		9	0.5	15.8	4	3.2	4.08	1.92	0.17	2.45	0.77	0.18	3.0	0.80	1.28	0.71
LI11121		408	3.4	29.8	22	2.1	4.40	2.37	0.63	4.27	0.90	0.26	9.8	2.65	2.87	0.84
LI11122		10	0.3	8.2	7	28.3	1.62	0.64	0.62	2.69	0.27	0.07	18.9	5.69	4.10	0.40
LI11123		4	1.3	6.8	6	21.8	1.11	0.59	0.20	1.17	0.21	0.07	4.6	1.35	1.21	0.22
LI11124		13	0.1	0.9	2	1.3	0.15	0.09	0.05	0.17	0.03	0.01	0.9	0.27	0.20	0.03
LI11125		32	2.7	9.0	1120	1.5	1.25	0.86	0.45	1.63	0.26	0.23	6.4	1.80	1.58	0.26
LI11125A		97	0.9	39.6	151	35.4	7.31	4.16	2.95	8.57	1.50	0.53	43.2	11.35	9.69	1.46
LI11126		13	3.2	8.1	10	7.4	1.02	0.69	0.22	0.96	0.24	0.11	5.2	1.60	1.05	0.18
LI11127		150	0.4	11.8	47	24.1	1.72	1.10	0.43	1.61	0.38	0.15	5.4	1.37	1.45	0.32
LI11128		25	0.5	6.2	19	60.4	0.93	0.49	0.91	1.20	0.19	0.08	6.6	1.92	1.48	0.21
LI11129		150	0.2	20.4	100	17.4	3.28	1.89	0.78	3.88	0.68	0.24	17.2	4.26	4.28	0.69
LI11130		21	0.2	13.5	22	29.3	2.07	1.22	0.62	2.21	0.44	0.15	9.9	2.72	2.35	0.42
LI11131		11	0.1	3.1	11	7.8	0.43	0.26	0.14	0.48	0.09	0.04	2.7	0.74	0.56	0.09
LI11132		159	0.9	29.7	68	14.4	4.30	2.72	1.39	4.57	0.95	0.38	23.1	6.39	4.78	0.82
LI11133		150	0.9	25.0	59	11.3	3.64	2.33	1.08	3.51	0.81	0.33	17.4	4.84	3.66	0.67
LI11134		20	0.5	15.9	10	83.5	2.43	2.06	0.31	1.79	0.58	0.43	5.7	1.70	1.72	0.40
LI11135		32	4.5	27.1	20	27.1	3.35	2.54	0.51	2.50	0.81	0.48	8.3	2.29	2.09	0.55
LI11136		90	0.5	24.0	47	56.3	3.63	2.18	1.18	3.75	0.77	0.31	23.0	7.17	4.41	0.69
LI11137		60	0.1	10.3	34	4.3	1.57	0.85	0.64	2.01	0.32	0.14	13.4	3.85	2.55	0.32
LI11138		11	0.3	2.2	9	11.9	0.34	0.19	0.34	0.45	0.07	0.04	3.6	1.12	0.62	0.08
LI11139		103	0.2	14.9	152	28.2	2.35	1.39	0.55	2.41	0.50	0.18	12.8	3.62	2.81	0.45
LI11140		86	1.1	12.3	30	6.8	2.21	1.18	0.86	2.89	0.43	0.15	15.5	4.16	3.49	0.49
LI11141		83	0.7	12.2	55	7.4	1.59	1.23	0.43	1.46	0.39	0.23	6.9	1.93	1.51	0.27
LI11142		21	0.2	31.9	35	1.5	3.34	3.88	0.47	1.75	1.03	0.75	3.1	0.79	0.96	0.43
LI11143		174	1.1	23.1	76	7.8	4.02	2.13	1.92	5.17	0.80	0.25	31.4	7.88	6.92	0.85
LI11144		31	0.3	6.2	35	1.2	0.58	0.52	0.24	0.62	0.15	0.12	3.9	1.09	0.71	0.11
LI11145		13	0.1	2.6	7	1.2	0.36	0.25	0.14	0.42	0.08	0.04	2.5	0.65	0.51	0.07
LI11146		236	0.1	2.3	71	11.5	0.36	0.29	0.09	0.29	0.09	0.05	0.9	0.21	0.23	0.06
LI11147		207	0.6	69.9	31	30.5	10.40	7.87	1.67	7.39	2.45	1.06	15.4	3.60	4.89	1.73
LI11148		230	0.4	87.3	6	8.0	13.70	9.55	2.89	11.30	3.20	1.19	36.1	9.52	9.25	2.42
LI11149		299	0.7	36.5	81	40.0	5.54	3.84	1.15	4.61	1.27	0.55	13.7	3.62	3.72	0.98
LI11150		147	5.9	35.0	115	24.5	5.56	3.48	1.84	6.03	1.15	0.47	32.3	8.64	7.12	1.08
LI11151		781	1.4	40.8	104	72.9	7.09	4.03	1.95	7.43	1.48	0.46	37.2	9.01	8.18	1.35
LI11152		122	4.5	30.2	59	48.0	4.39	2.62	1.54	4.70	0.91	0.33	25.5	6.96	5.24	0.87
LI11153		66	0.2	28.2	101	39.6	5.30	2.80	2.38	6.32	1.04	0.33	35.5	9.91	6.99	1.07
LI11154		71	0.4	85.9	133	62.3	14.65	8.34	4.36	15.95	3.01	0.94	103.0	25.1	18.70	2.85
LI11155		503	1.0	56.8	203	15.8	9.56	5.92	2.46	8.61	2.08	0.80	28.2	6.65	7.27	1.74



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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	PGM-ICP23	PGM-ICP23	PGM-ICP23
		Tm	Yb	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm
		0.01	0.03	0.001	0.005	0.001
LI11119		0.01	0.08	<0.001	<0.005	<0.001
LI11120		0.24	1.39	0.001	<0.005	<0.001
LI11121		0.31	1.81	0.001	<0.005	<0.001
LI11122		0.08	0.45	<0.001	<0.005	<0.001
LI11123		0.08	0.51	<0.001	<0.005	<0.001
LI11124		0.01	0.08	<0.001	<0.005	<0.001
LI11125		0.14	1.23	0.023	<0.005	<0.001
LI11125A		0.56	3.46	<0.001	<0.005	<0.001
LI11126		0.10	0.73	<0.001	<0.005	<0.001
LI11127		0.16	0.99	0.004	0.006	0.006
LI11128		0.07	0.46	<0.001	<0.005	<0.001
LI11129		0.27	1.65	0.001	<0.005	0.002
LI11130		0.17	1.06	<0.001	<0.005	<0.001
LI11131		0.04	0.24	0.002	<0.005	0.002
LI11132		0.39	2.51	<0.001	<0.005	<0.001
LI11133		0.33	2.15	<0.001	<0.005	0.001
LI11134		0.34	2.53	<0.001	<0.005	<0.001
LI11135		0.43	3.15	<0.001	<0.005	<0.001
LI11136		0.32	2.09	<0.001	<0.005	<0.001
LI11137		0.12	0.75	0.001	<0.005	0.001
LI11138		0.03	0.19	<0.001	<0.005	0.001
LI11139		0.21	1.28	<0.001	<0.005	<0.001
LI11140		0.16	1.03	<0.001	<0.005	<0.001
LI11141		0.20	1.41	<0.001	<0.005	<0.001
LI11142		0.68	4.92	<0.001	<0.005	<0.001
LI11143		0.29	1.70	<0.001	<0.005	<0.001
LI11144		0.09	0.70	0.001	<0.005	<0.001
LI11145		0.04	0.29	<0.001	<0.005	<0.001
LI11146		0.04	0.32	<0.001	<0.005	<0.001
LI11147		1.15	7.78	<0.001	<0.005	<0.001
LI11148		1.37	8.69	<0.001	<0.005	<0.001
LI11149		0.57	3.97	0.002	<0.005	<0.001
LI11150		0.50	3.37	<0.001	<0.005	<0.001
LI11151		0.55	3.45	<0.001	<0.005	<0.001
LI11152		0.37	2.45	0.001	<0.005	<0.001
LI11153		0.37	2.29	<0.001	<0.005	<0.001
LI11154		1.11	7.19	0.001	0.011	<0.001
LI11155		0.86	5.60	0.021	<0.005	<0.001



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Project: LIMBLA

CERTIFICATE OF ANALYSIS AS12108381

Method	CERTIFICATE COMMENTS
ME-MS61r ME-MS61r	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.