Australian Laboratory Services Pty. Ltd.

32 Shand Street
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www.alsglobal.com/geochemistry

Finalized Date: 28-JUN-2018
Account: FIQUMIEX

QC CERTIFICATE PH18138544

Project: ZURGENEX

P.O. No.: AMA0001-18

This report is for 63 Crushed Rock samples submitted to our lab in Perth, WA, Australia on 11-JUN-2018.

The following have access to data associated with this certificate:

JANHARM GODFROID JEN ROSKOWSKI	ZELJKO GOLUBOVIC TOM WESBY	ALISON RAOS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test
BAG-01	Bulk Master for Storage
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
MS61L-REE	REE Add-on to ME-MS61L	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	ICP-MS

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

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

Signature:

Cameron Brosnan, Laboratory Manager, Perth

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QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ag ppm 0.002	ME-MS61L Al % 0.01	ME-MS61L As ppm 0.05	ME-MS61L Ba ppm 1	ME-MS61L Be ppm 0.02	ME-MS61L Bi ppm 0.005	ME-MS61L Ca % 0.01	ME-MS61L Cd ppm 0.005	ME-MS61L Ce ppm 0.01	ME-MS61L Co ppm 0.005	ME-MS61L Cr ppm 0.3	ME-MS61L Cs ppm 0.01	ME-MS61L Cu ppm 0.02	ME-MS61L Fe % 0.002	ME-MS61L Ga ppm 0.05
STANDARDS																
GBM908-10		2.99	7.27	56.3	1130	1.54	1.190	3.82	1.745	113.0	27.2	140.5	4.01	3710	5.63	21.4
Target Range - Lower Bound		2.61	6.40	50.4	934	1.30	1.120	3.33	1.545	99.0	24.1	125.5	3.48	3350	4.98	18.65
Upper Bound		3.19	7.84	61.7	1265	1.63	1.380	4.10	1.895	121.0	29.5	154.5	4.28	3850	6.10	22.9
MRGeo08		4.50	7.92	32.6	1120	3.38	0.628	2.65	2.32	78.2	21.1	93.8	13.40	641	4.06	19.60
Target Range - Lower Bound		4.01	6.64	29.7	930	3.01	0.608	2.35	2.01	66.2	17.80	82.1	11.25	587	3.56	17.50
Upper Bound		4.91	8.14	36.4	1260	3.73	0.754	2.90	2.47	81.0	21.8	101.0	13.75	675	4.36	21.5
OREAS 24b		0.073	8.03	9.05	760	2.63	0.733	1.07	0.054	86.1	16.30	117.0	11.05	38.4	4.59	20.9
OREAS 24b		0.072	7.86	9.06	740	2.62	0.684	1.05	0.041	85.3	16.50	116.0	11.15	38.7	4.41	20.3
OREAS 24b		0.071	7.75	9.18	730	2.64	0.694	1.04	0.047	87.1	15.95	117.0	10.40	38.1	4.44	21.4
OREAS 24b		0.069	7.44	7.44	710	2.36	0.609	1.00	0.041	86.2	15.45	115.0	10.40	36.7	4.27	19.65
Target Range - Lower Bound		0.066		7.47	608	2.28	0.607	0.96	0.037	76.8	14.45		9.62	35.3		18.05
Upper Bound		0.085		9.24	824	2.83	0.753	1.20	0.061	93.8	17.65		11.80	40.7		22.2
OREAS 601		47.9	6.19	309	251	1.87	20.9	1.27	7.54	62.0	5.10	38.8	6.42	975	2.43	20.9
Target Range - Lower Bound		44.3	5.66	276	747	1.84	18.80	1.17	7.07	56.7	4.62	37.5	6.04	939	2.23	18.30
Upper Bound		54.1	6.94	338	1015	2.30	23.0	1.45	8.65	69.3	5.66	46.5	7.40	1080	2.73	22.5
OREAS-45e		0.255	6.30	14.80	234	0.50	0.220	0.06	0.017	20.4	55.7	895	1.10	737	23.1	15.70
Target Range - Lower Bound		0.278	6.09	14.60	213	0.54	0.247	0.04	0.012	21.1	51.3	881	1.12	725	21.7	14.80
Upper Bound		0.344	7.47	18.00	291	0.70	0.313	0.09	0.034	25.9	62.7	1075	1.40	835	26.5	18.20
BLANKS																
BLANK		0.008	<0.01	<0.05	<1	<0.02	<0.005	<0.01	<0.005	0.01	0.029	<0.3	<0.01	0.17	<0.002	<0.05
BLANK		0.006	<0.01	<0.05	<1	<0.02	<0.005	<0.01	<0.005	0.01	0.011	<0.3	<0.01	0.06	<0.002	<0.05
BLANK		0.003	<0.01	<0.05	<1	<0.02	<0.005	<0.01	<0.005	0.01	0.017	<0.3	<0.01	0.06	0.002	<0.05
BLANK		0.004	<0.01	<0.05	<1	<0.02	<0.005	<0.01	<0.005	0.01	0.008	<0.3	<0.01	0.09	<0.002	<0.05
Target Range - Lower Bound		<0.002	<0.01	<0.05	<1	<0.02	<0.005	<0.01	<0.005	<0.01	<0.005	<0.3	<0.01	<0.02	<0.002	<0.05
Upper Bound		0.004	0.02	0.10	2	0.04	0.010	0.02	0.010	0.02	0.010	0.6	0.02	0.04	0.004	0.10

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Project: ZURGENEX

QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ge ppm 0.05	ME-MS61L Hf ppm 0.004	ME-MS61L In ppm 0.005	ME-MS61L K % 0.01	ME-MS61L La ppm 0.005	ME-MS61L Li ppm 0.2	ME-MS61L Mg % 0.01	ME-MS61L Mn ppm 0.2	ME-MS61L Mo ppm 0.02	ME-MS61L Na % 0.001	ME-MS61L Nb ppm 0.005	ME-MS61L Ni ppm 0.08	ME-MS61L P % 0.001	ME-MS61L Pb ppm 0.01	ME-MS61L Rb ppm 0.02
STANDARDS																
GBM908-10		0.16	3.63	0.076	2.18	55.5	11.1	1.85	819	61.0	2.20	10.70	2320	0.102	2160	173.5
Target Range - Lower Bound		0.13	3.42	0.064	1.87	49.5	9.8	1.61	720	57.9	1.935	9.63	2020		1845	153.0
Upper Bound		0.35	4.18	0.092	2.31	60.5	12.4	1.99	880	70.8	2.37	11.80	2470		2250	187.0
MRGeo08		0.16	3.13	0.179	3.22	41.7	30.1	1.37	570	15.55	2.01	21.5	706	0.108	1100	221
Target Range - Lower Bound		<0.05	2.88	0.155	2.78	31.6	29.5	1.17	502	13.65	1.770	19.10	622	0.093	971	173.5
Upper Bound		0.27	3.52	0.201	3.42	38.6	36.5	1.45	614	16.75	2.17	23.3	760	0.115	1185	212
OREAS 24b		0.14	4.03	0.066	2.87	45.2	55.8	1.63	455	3.96	0.840	14.70	60.4	0.073	22.6	168.0
OREAS 24b		0.14	3.97	0.064	2.83	44.8	56.1	1.59	448	3.90	0.820	14.60	59.1	0.072	22.0	164.5
OREAS 24b		0.12	3.74	0.080	2.82	42.1	55.7	1.57	444	3.88	0.810	14.75	60.0	0.070	22.0	164.5
OREAS 24b		0.12	3.53	0.089	2.67	41.6	52.6	1.51	422	3.77	0.779	14.40	59.7	0.069	21.9	163.0
Target Range - Lower Bound		<0.05	3.51	0.063		38.2	48.4			3.49		13.15	53.9		20.8	147.5
Upper Bound		0.26	4.29	0.091		46.6	59.6			4.31		16.05	66.1		25.4	180.5
OREAS 601		0.13	4.16	1.720	2.05	30.9	17.1	0.36	477	4.00	1.410	13.00	23.6	0.045	345	92.3
Target Range - Lower Bound		<0.05	4.06	1.550	1.88	27.8	18.3	0.34	432	3.46	1.305	11.35	21.8	0.041	296	87.3
Upper Bound		0.27	4.98	1.910	2.32	34.0	22.8	0.44	528	4.28	1.595	13.85	26.8	0.053	362	106.5
OREAS-45e		0.91	2.80	0.102	0.31	10.15	4.7	0.13	514	2.21	0.054	6.34	426	0.032	17.05	19.15
Target Range - Lower Bound		0.64	2.80	0.084	0.28	9.90	5.7	0.13	495	2.14	0.052	6.12	409	0.030	16.35	19.05
Upper Bound		0.92	3.43	0.114	0.37	12.10	7.4	0.18	605	2.66	0.066	7.49	499	0.038	20.0	23.3
BLANKS																
BLANK		<0.05	<0.004	<0.005	<0.01	<0.005	<0.2	<0.01	<0.2	<0.02	0.001	<0.005	<0.08	<0.001	0.93	0.04
BLANK		<0.05	<0.004	<0.005	<0.01	0.005	<0.2	<0.01	<0.2	<0.02	<0.001	<0.005	<0.08	<0.001	0.68	0.02
BLANK		<0.05	<0.004	<0.005	<0.01	0.005	<0.2	<0.01	0.6	<0.02	<0.001	<0.005	<0.08	<0.001	0.98	0.02
BLANK		<0.05	<0.004	<0.005	<0.01	<0.005	<0.2	<0.01	0.2	<0.02	<0.001	<0.005	<0.08	<0.001	0.98	<0.02
Target Range - Lower Bound		<0.05	<0.004	<0.005	<0.01	<0.005	<0.2	<0.01	<0.2	<0.02	<0.001	<0.005	<0.08	<0.001	<0.01	<0.02
Upper Bound		0.10	0.008	0.010	0.02	0.010	0.4	0.02	0.4	0.04	0.002	0.010	0.16	0.002	0.02	0.04

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QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Re ppm 0.002	ME-MS61L S % 0.01	ME-MS61L Sb ppm 0.02	ME-MS61L Sc ppm 0.01	ME-MS61L Se ppm 0.2	ME-MS61L Sn ppm 0.02	ME-MS61L Sr ppm 0.02	ME-MS61L Ta ppm 0.01	ME-MS61L Te ppm 0.04	ME-MS61L Th ppm 0.004	ME-MS61L Ti % 0.001	ME-MS61L Tl ppm 0.004	ME-MS61L U ppm 0.01	ME-MS61L V ppm 0.1	ME-MS61L W ppm 0.008
STANDARDS																
GBM908-10		<0.002	0.38	1.89	19.20	0.6	3.49	304	0.77	0.04	17.35	0.683	1.255	2.21	143.0	3.60
Target Range - Lower Bound		<0.002	0.33	1.43	17.10	0.3	2.95	259	0.73	<0.04	16.55	0.595	1.025	2.06	124.0	2.97
Upper Bound		0.006	0.43	1.98	20.9	1.1	3.65	316	0.92	0.14	20.2	0.729	1.395	2.54	152.0	4.03
MRGeo08		0.009	0.31	5.01	13.60	1.1	4.45	313	1.56	<0.04	21.6	0.506	1.130	5.93	114.0	4.98
Target Range - Lower Bound		0.005	0.27	3.92	11.15	0.6	3.64	277	1.43	<0.04	17.90	0.447	0.906	4.97	98.0	4.18
Upper Bound		0.013	0.35	5.36	13.65	1.5	4.50	339	1.77	0.12	21.9	0.549	1.235	6.09	120.0	5.68
OREAS 24b		<0.002	0.20	1.01	16.00	0.4	4.66	123.0	1.13	0.07	16.85	0.461	0.900	3.07	108.5	3.64
OREAS 24b		<0.002	0.20	0.91	15.85	0.4	4.50	122.5	1.12	0.06	16.60	0.445	0.896	3.08	108.0	3.50
OREAS 24b		<0.002	0.19	0.96	16.20	0.2	3.93	123.0	1.09	0.04	16.15	0.447	0.861	2.90	107.0	3.72
OREAS 24b		<0.002	0.19	0.95	14.80	0.2	3.82	118.5	1.07	<0.04	15.45	0.430	0.839	2.79	103.0	3.38
Target Range - Lower Bound		<0.002		0.79	13.75	<0.2	3.81	111.5	1.03	<0.04	14.75	0.391	0.727	2.74		3.09
Upper Bound		0.006		1.11	16.85	0.9	4.70	136.5	1.29	0.08	18.05	0.480	0.993	3.38		4.19
OREAS 601		<0.002	1.04	31.6	4.70	12.4	3.93	227	0.96	15.65	10.05	0.182	1.200	3.65	25.9	5.58
Target Range - Lower Bound		<0.002	0.95	25.8	4.36	10.6	3.72	207	0.93	14.35	9.81	0.161	1.025	3.59	22.9	4.92
Upper Bound		0.004	1.19	35.0	5.35	13.4	4.60	253	1.15	17.65	12.00	0.199	1.395	4.41	28.3	6.68
OREAS-45e		<0.002	0.05	1.04	89.6	2.8	1.21	14.30	0.55	0.20	11.70	0.520	0.141	2.20	293	1.050
Target Range - Lower Bound		<0.002	0.02	0.83	83.7	2.4	1.17	14.30	0.49	0.07	11.60	0.502	0.124	2.16	290	0.902
Upper Bound		0.006	0.07	1.17	102.5	3.5	1.47	17.50	0.63	0.25	14.20	0.616	0.177	2.66	354	1.240
BLANKS																
BLANK		<0.002	<0.01	<0.02	<0.01	<0.2	<0.02	0.02	<0.01	0.04	<0.004	<0.001	0.085	<0.01	<0.1	<0.008
BLANK		<0.002	<0.01	<0.02	<0.01	<0.2	<0.02	0.02	<0.01	<0.04	<0.004	<0.001	0.044	<0.01	0.1	<0.008
BLANK		<0.002	<0.01	<0.02	0.01	<0.2	<0.02	0.05	<0.01	<0.04	<0.004	<0.001	0.073	<0.01	0.1	<0.008
BLANK		<0.002	<0.01	<0.02	0.01	<0.2	<0.02	<0.02	<0.01	<0.04	<0.004	<0.001	0.040	<0.01	0.1	<0.008
Target Range - Lower Bound		<0.002	<0.01	<0.02	<0.01	<0.2	<0.02	<0.02	<0.01	<0.04	<0.004	<0.001	<0.004	<0.01	<0.1	<0.008
Upper Bound		0.004	0.02	0.04	0.02	0.4	0.04	0.04	0.02	0.08	0.008	0.002	0.008	0.02	0.2	0.016

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Sample Description	Method / Analyte / Units / LOD	ME-MS61L Y ppm 0.01	ME-MS61L Zn ppm 0.2	ME-MS61L Zr ppm 0.1	MS61L-REE Dy ppm 0.005	MS61L-REE Er ppm 0.004	MS61L-REE Eu ppm 0.004	MS61L-REE Gd ppm 0.005	MS61L-REE Ho ppm 0.002	MS61L-REE Lu ppm 0.002	MS61L-REE Nd ppm 0.005	MS61L-REE Pr ppm 0.004	MS61L-REE Sm ppm 0.004	MS61L-REE Tb ppm 0.002	MS61L-REE Tm ppm 0.002	MS61L-REE Yb ppm 0.004
STANDARDS																
GBM908-10		38.3	1080	141.0	7.17	4.09	1.825	7.82	1.405	0.512	45.6	12.10	8.70	1.190	0.559	3.53
Target Range - Lower Bound		35.3	940	118.0	6.08	3.48	1.690	6.92	1.215	0.457	38.4	10.45	7.46	1.060	0.493	3.03
Upper Bound		43.1	1150	160.0	7.44	4.26	2.07	8.46	1.485	0.563	47.0	12.75	9.12	1.300	0.607	3.71
MRGeo08		28.0	809	112.0	5.50	2.89	1.430	5.73	0.974	0.407	33.7	8.89	6.68	0.877	0.424	2.79
Target Range - Lower Bound		23.8	723	92.6	4.27	2.41	1.215	4.92	0.844	0.349	28.2	7.46	5.58	0.718	0.349	2.28
Upper Bound		29.2	885	125.5	5.23	2.95	1.495	6.02	1.035	0.431	34.4	9.12	6.82	0.882	0.431	2.80
OREAS 24b		19.45	109.5	144.0	4.34	2.23	1.345	5.46	0.794	0.346	38.0	10.05	7.51	0.769	0.302	2.13
OREAS 24b		19.55	110.5	143.5	4.32	2.13	1.295	5.47	0.715	0.328	38.3	10.00	7.32	0.770	0.307	2.13
OREAS 24b		19.70	103.5	135.5	4.26	2.12	1.340	5.84	0.769	0.320	38.0	10.00	7.17	0.787	0.314	2.09
OREAS 24b		19.50	102.5	133.0	4.03	2.07	1.305	5.51	0.715	0.324	37.0	9.77	6.97	0.736	0.302	2.03
Target Range - Lower Bound		18.35		114.0	3.83	1.850	1.220	4.98	0.655	0.286	32.6	8.87	6.35	0.682	0.286	1.950
Upper Bound		22.5		154.0	4.69	2.27	1.500	6.10	0.805	0.354	39.8	10.85	7.77	0.838	0.354	2.39
OREAS 601		11.55	1330	161.0	2.52	0.868	0.943	3.92	0.380	0.085	25.7	6.90	5.03	0.504	0.113	0.634
Target Range - Lower Bound		10.05	1195	131.5	2.42	0.824	0.905	3.69	0.358	0.084	24.3	6.79	4.60	0.502	0.097	0.608
Upper Bound		12.35	1465	178.5	2.96	1.015	1.115	4.52	0.442	0.107	29.7	8.31	5.64	0.618	0.123	0.752
OREAS-45e		7.45	44.5	102.5	1.900	1.035	0.479	1.770	0.336	0.160	8.58	2.20	1.955	0.302	0.158	1.125
Target Range - Lower Bound		7.44	41.8	93.4	1.840	1.075	0.491	1.785	0.340	0.151	8.61	2.31	2.05	0.277	0.151	1.065
Upper Bound		9.12	51.6	126.5	2.26	1.325	0.609	2.19	0.420	0.189	10.55	2.83	2.51	0.343	0.189	1.315
BLANKS																
BLANK		<0.01	<0.2	0.1	<0.005	<0.004	<0.004	<0.005	<0.002	<0.002	0.005	<0.004	<0.004	<0.002	<0.002	<0.004
BLANK		<0.01	<0.2	0.1	<0.005	<0.004	<0.004	<0.005	<0.002	<0.002	<0.005	<0.004	<0.004	<0.002	<0.002	<0.004
BLANK		<0.01	<0.2	0.1	<0.005	<0.004	<0.004	<0.005	<0.002	<0.002	<0.005	<0.004	<0.004	<0.002	<0.002	<0.004
BLANK		<0.01	<0.2	0.1	<0.005	<0.004	<0.004	<0.005	<0.002	<0.002	0.009	<0.004	<0.004	<0.002	<0.002	<0.004
Target Range - Lower Bound		<0.01	<0.2	<0.1	<0.005	<0.004	<0.004	<0.005	<0.002	<0.002	<0.005	<0.004	<0.004	<0.002	<0.002	
Upper Bound		0.02	0.4	0.2	0.010	0.008	0.008	0.010	0.004	0.004	0.010	0.008	0.008	0.004	0.004	

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www.alsglobal.com/geochemistry

Finalized Date: 28-JUN-2018
Account: FIQUMIEX

Project: ZURGENEX

QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ag ppm 0.002	ME-MS61L Al % 0.01	ME-MS61L As ppm 0.05	ME-MS61L Ba ppm 1	ME-MS61L Be ppm 0.02	ME-MS61L Bi ppm 0.005	ME-MS61L Ca % 0.01	ME-MS61L Cd ppm 0.005	ME-MS61L Ce ppm 0.01	ME-MS61L Co ppm 0.005	ME-MS61L Cr ppm 0.3	ME-MS61L Cs ppm 0.01	ME-MS61L Cu ppm 0.02	ME-MS61L Fe % 0.002	ME-MS61L Ga ppm 0.05
DUPLICATES																
107286		0.184	3.52	9.02	196	4.34	0.300	0.21	0.446	50.7	240	40.8	7.31	274	29.1	9.32
DUP		0.186	3.56	9.26	196	4.45	0.316	0.21	0.424	49.8	244	40.8	7.35	279	29.4	9.13
Target Range - Lower Bound		0.174	3.35	8.63	180	4.16	0.288	0.19	0.408	47.7	230	38.5	6.95	267	27.8	8.71
Upper Bound		0.196	3.73	9.65	212	4.63	0.328	0.23	0.462	52.8	254	43.1	7.71	286	30.7	9.74
107301		0.023	1.06	0.95	72	0.62	0.117	0.02	0.005	21.9	4.49	14.7	1.86	4.71	0.770	2.26
DUP		0.026	1.06	0.82	66	0.56	0.093	0.03	<0.005	20.9	4.50	16.6	1.69	4.53	0.810	2.29
Target Range - Lower Bound		0.021	1.00	0.79	63	0.54	0.095	<0.01	<0.005	20.3	4.27	14.6	1.68	4.44	0.749	2.11
Upper Bound		0.028	1.12	0.98	75	0.64	0.115	0.04	0.010	22.5	4.72	16.7	1.87	4.80	0.832	2.44
107318		0.012	6.38	0.59	49	0.82	0.018	6.87	0.134	68.2	31.0	20.5	1.16	4.82	8.76	20.8
DUP		0.015	6.53	0.69	47	0.74	0.020	6.90	0.134	70.1	31.0	19.3	1.04	5.04	8.95	21.4
Target Range - Lower Bound		0.011	6.12	0.56	43	0.72	0.013	6.53	0.122	65.7	29.4	18.6	1.04	4.74	8.41	20.00
Upper Bound		0.016	6.79	0.72	53	0.84	0.025	7.24	0.146	72.6	32.6	21.2	1.17	5.12	9.30	22.2
107333		0.008	0.02	0.14	2	0.02	0.007	0.01	<0.005	0.66	0.270	3.6	0.03	0.94	0.244	0.13
DUP		0.011	0.02	0.27	2	<0.02	0.009	0.01	<0.005	0.59	0.284	3.9	0.02	1.15	0.243	0.12
Target Range - Lower Bound		0.007	<0.01	0.14	<1	<0.02	<0.005	<0.01	<0.005	0.58	0.258	3.3	<0.01	0.99	0.229	0.07
Upper Bound		0.012	0.03	0.27	3	0.04	0.010	0.02	0.010	0.67	0.296	4.2	0.04	1.10	0.258	0.18

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QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ge ppm 0.05	ME-MS61L Hf ppm 0.004	ME-MS61L In ppm 0.005	ME-MS61L K % 0.01	ME-MS61L La ppm 0.005	ME-MS61L Li ppm 0.2	ME-MS61L Mg % 0.01	ME-MS61L Mn ppm 0.2	ME-MS61L Mo ppm 0.02	ME-MS61L Na % 0.001	ME-MS61L Nb ppm 0.005	ME-MS61L Ni ppm 0.08	ME-MS61L P % 0.001	ME-MS61L Pb ppm 0.01	ME-MS61L Rb ppm 0.02
DUPLICATES																
107286		0.52	1.505	1.890	1.91	26.2	13.8	0.60	13150	0.41	0.025	3.59	216	0.058	126.5	95.0
DUP		0.66	1.530	1.835	1.94	26.1	13.7	0.61	13250	0.43	0.026	3.51	219	0.059	123.5	97.5
Target Range - Lower Bound		0.51	1.440	1.765	1.82	24.8	12.9	0.56	12550	0.38	0.023	3.37	207	0.055	118.5	91.4
Upper Bound		0.67	1.595	1.960	2.03	27.5	14.6	0.65	13850	0.46	0.028	3.73	228	0.062	131.5	101.0
107301		0.06	1.290	0.013	0.58	11.95	2.5	0.06	43.9	0.79	0.010	1.750	2.28	0.009	3.19	31.7
DUP		<0.05	1.180	0.008	0.58	11.25	2.1	0.05	42.1	0.77	0.010	1.610	2.40	0.008	2.98	29.9
Target Range - Lower Bound		<0.05	1.170	<0.005	0.54	11.00	2.0	0.04	40.7	0.72	0.009	1.590	2.14	0.007	2.92	29.2
Upper Bound		0.10	1.300	0.016	0.62	12.20	2.6	0.07	45.4	0.84	0.012	1.770	2.54	0.010	3.25	32.4
107318		0.16	1.930	0.104	0.18	35.4	10.5	3.08	1885	0.36	2.69	3.79	24.8	0.147	7.33	6.86
DUP		0.14	1.895	0.113	0.18	34.8	10.1	3.11	1880	0.33	2.76	3.82	25.8	0.151	7.33	7.05
Target Range - Lower Bound		0.09	1.815	0.098	0.16	33.3	9.6	2.93	1790	0.31	2.59	3.61	24.0	0.141	6.95	6.59
Upper Bound		0.21	2.01	0.119	0.20	36.9	11.0	3.26	1975	0.38	2.86	4.00	26.6	0.157	7.71	7.32
107333		<0.05	0.254	<0.005	0.01	0.365	3.9	0.01	27.8	0.40	0.002	0.281	0.88	<0.001	1.61	0.34
DUP		<0.05	0.240	<0.005	0.01	0.316	3.9	0.01	27.4	0.44	0.003	0.361	0.87	<0.001	1.56	0.35
Target Range - Lower Bound		<0.05	0.231	<0.005	<0.01	0.318	3.5	<0.01	26.0	0.38	<0.001	0.300	0.75	<0.001	1.50	0.31
Upper Bound		0.10	0.263	0.010	0.02	0.363	4.3	0.02	29.2	0.46	0.004	0.342	1.00	0.002	1.67	0.38

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QC CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Re ppm 0.002	ME-MS61L S % 0.01	ME-MS61L Sb ppm 0.02	ME-MS61L Sc ppm 0.01	ME-MS61L Se ppm 0.2	ME-MS61L Sn ppm 0.02	ME-MS61L Sr ppm 0.02	ME-MS61L Ta ppm 0.01	ME-MS61L Te ppm 0.04	ME-MS61L Th ppm 0.004	ME-MS61L Ti % 0.001	ME-MS61L Tl ppm 0.004	ME-MS61L U ppm 0.01	ME-MS61L V ppm 0.1	ME-MS61L W ppm 0.008
		DUPLICATES														
107286		<0.002	0.50	4.19	13.65	<0.2	2.62	103.5	0.33	<0.04	11.70	0.107	0.622	7.58	35.4	1.380
DUP		<0.002	0.50	4.07	13.40	<0.2	2.62	104.0	0.33	<0.04	11.55	0.109	0.590	7.44	36.9	1.325
Target Range - Lower Bound		<0.002	0.47	3.80	12.85	<0.2	2.47	98.5	0.30	<0.04	11.05	0.102	0.557	7.12	34.2	1.245
Upper Bound		0.004	0.54	4.46	14.20	0.4	2.77	109.0	0.36	0.08	12.20	0.114	0.655	7.90	38.1	1.460
107301		<0.002	0.21	0.13	1.42	<0.2	0.53	7.97	0.16	<0.04	3.21	0.043	0.148	0.73	9.9	0.475
DUP		<0.002	0.21	0.11	1.39	<0.2	0.52	7.33	0.14	<0.04	3.07	0.038	0.132	0.70	9.4	0.437
Target Range - Lower Bound		<0.002	0.19	0.09	1.32	<0.2	0.48	7.25	0.13	<0.04	2.98	0.037	0.126	0.67	9.1	0.414
Upper Bound		0.004	0.23	0.15	1.49	0.4	0.57	8.05	0.17	0.08	3.30	0.044	0.155	0.76	10.2	0.498
107318		<0.002	0.01	0.10	42.2	0.3	2.43	160.0	0.25	<0.04	0.780	1.820	0.126	0.68	475	0.254
DUP		<0.002	0.01	0.13	41.9	0.4	2.53	162.0	0.25	<0.04	0.772	1.855	0.152	0.68	483	0.268
Target Range - Lower Bound		<0.002	<0.01	0.09	39.9	<0.2	2.34	153.0	0.23	<0.04	0.733	1.745	0.125	0.64	455	0.233
Upper Bound		0.004	0.02	0.14	44.2	0.4	2.62	169.0	0.27	0.08	0.819	1.930	0.153	0.72	503	0.289
107333		<0.002	<0.01	0.04	0.07	<0.2	0.06	0.39	0.01	<0.04	0.332	0.014	0.022	0.12	0.6	0.693
DUP		<0.002	<0.01	0.03	0.07	<0.2	0.05	0.38	0.02	<0.04	0.279	0.013	0.031	0.11	0.6	0.858
Target Range - Lower Bound		<0.002	<0.01	<0.02	0.06	<0.2	0.03	0.35	<0.01	<0.04	0.286	0.012	0.021	0.10	0.5	0.709
Upper Bound		0.004	0.02	0.04	0.08	0.4	0.08	0.42	0.02	0.08	0.325	0.015	0.032	0.13	0.7	0.842

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Sample Description	Method / Analyte / Units / LOD	ME-MS61L Y ppm 0.01	ME-MS61L Zn ppm 0.2	ME-MS61L Zr ppm 0.1	MS61L-REE Dy ppm 0.005	MS61L-REE Er ppm 0.004	MS61L-REE Eu ppm 0.004	MS61L-REE Gd ppm 0.005	MS61L-REE Ho ppm 0.002	MS61L-REE Lu ppm 0.002	MS61L-REE Nd ppm 0.005	MS61L-REE Pr ppm 0.004	MS61L-REE Sm ppm 0.004	MS61L-REE Tb ppm 0.002	MS61L-REE Tm ppm 0.002	MS61L-REE Yb ppm 0.004
DUPLICATES																
107286		24.6	517	57.6	4.70	2.65	0.943	5.27	0.871	0.474	23.2	6.10	4.94	0.784	0.413	2.97
DUP		25.0	524	58.4	4.66	2.66	0.967	5.21	0.860	0.501	22.8	5.84	5.04	0.798	0.398	2.95
Target Range - Lower Bound		23.6	494	53.6	4.44	2.52	0.903	4.97	0.820	0.461	21.8	5.67	4.74	0.749	0.383	2.81
Upper Bound		26.1	547	62.5	4.92	2.79	1.005	5.51	0.911	0.514	24.2	6.27	5.24	0.833	0.428	3.11
107301		5.34	2.5	46.1	1.085	0.577	0.317	1.335	0.196	0.092	9.78	2.61	1.710	0.189	0.084	0.586
DUP		4.95	2.3	41.8	1.030	0.553	0.281	1.315	0.183	0.078	9.01	2.49	1.660	0.171	0.076	0.534
Target Range - Lower Bound		4.88	2.1	40.6	1.000	0.533	0.280	1.255	0.178	0.079	8.92	2.42	1.595	0.169	0.074	0.528
Upper Bound		5.41	2.7	47.3	1.115	0.597	0.318	1.395	0.201	0.091	9.87	2.68	1.775	0.191	0.086	0.592
107318		69.2	100.0	62.3	12.50	7.70	3.35	10.85	2.56	0.943	32.2	7.68	8.74	1.875	1.050	6.58
DUP		67.5	101.5	57.8	12.35	7.41	3.30	10.95	2.54	0.917	32.5	7.63	8.83	1.820	1.030	6.41
Target Range - Lower Bound		64.9	95.5	55.4	11.80	7.17	3.15	10.35	2.42	0.882	30.7	7.27	8.34	1.755	0.986	6.17
Upper Bound		71.8	106.0	64.7	13.05	7.94	3.50	11.45	2.68	0.979	34.0	8.04	9.23	1.940	1.095	6.82
107333		0.30	0.6	9.0	0.052	0.037	0.011	0.044	0.010	0.008	0.291	0.074	0.046	0.008	0.006	0.044
DUP		0.30	0.6	8.6	0.045	0.040	<0.004	0.042	0.013	0.007	0.249	0.072	0.066	0.008	0.006	0.039
Target Range - Lower Bound		0.28	0.4	8.0	0.041	0.033	<0.004	0.036	0.009	0.005	0.252	0.065	0.049	0.006	0.004	0.035
Upper Bound		0.33	0.8	9.6	0.056	0.044	0.008	0.050	0.014	0.010	0.289	0.081	0.063	0.010	0.008	0.048

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia

Applies to Method:

BAG-01	CRU-31	CRU-QC	LEV-01
LOG-22	ME-MS61L	MS61L-REE	PUL-31
PUL-QC	SPL-21	WEI-21	