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Finalized Date: 28-JUN-2018
Account: FIQUMIEX

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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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	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
107272		0.20	0.792	5.61	11.05	273	2.28	0.831	1.54	0.538	95.0	31.9	105.5	12.50	163.0	6.48
107273		0.13	0.454	6.08	3.36	580	2.42	0.318	2.09	0.162	85.9	15.10	64.3	10.50	78.1	4.28
107274		0.15	0.098	5.16	9.24	490	1.43	0.102	2.56	0.080	72.4	6.59	43.8	4.28	13.30	2.49
107275		0.12	0.251	7.07	44.7	790	2.35	0.147	1.94	0.066	83.7	14.05	69.0	16.65	41.5	3.82
107276		0.07	0.105	4.58	4.56	650	1.17	0.211	0.25	0.019	44.1	12.45	22.3	3.06	63.4	5.16
107277		0.07	0.301	7.78	15.35	386	3.31	8.33	0.24	0.033	76.2	96.1	63.4	13.75	8830	4.73
107278		0.07	0.008	2.84	4.25	215	0.95	0.074	11.75	0.015	37.9	3.94	20.7	2.63	23.6	3.04
107279		0.11	0.019	5.19	3.58	1450	1.76	0.220	7.21	<0.005	55.2	6.10	35.3	8.20	19.10	2.99
107280		0.06	0.083	3.62	32.9	328	1.75	0.239	11.50	0.032	49.1	8.07	27.4	4.52	244	3.46
107281		0.16	0.135	6.09	32.0	249	2.04	0.650	0.23	0.025	116.5	53.3	38.3	10.75	72.7	6.22
107282		0.07	0.106	8.93	7.99	398	3.21	1.575	0.13	0.007	109.5	25.8	57.9	14.85	24.3	2.90
107283		0.15	0.107	9.82	11.85	357	3.40	0.977	0.05	<0.005	92.0	14.75	68.7	14.05	44.4	5.30
107284		0.08	0.271	9.18	8.25	318	2.97	0.770	0.06	0.013	102.5	14.90	67.7	12.35	506	4.93
107285		0.22	0.624	1.12	66.2	49	2.59	0.179	0.89	0.555	26.9	350	11.7	1.39	28.6	35.2
107286		0.12	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
107287		0.16	0.136	3.75	1.88	202	1.47	0.254	0.03	0.049	67.0	10.10	19.9	6.51	8.33	1.300
107288		0.08	0.089	6.85	8.56	318	3.75	0.293	0.09	0.046	83.5	41.3	37.8	13.05	17.15	2.08
107289		0.31	1.640	8.42	91.3	402	5.36	0.426	0.08	0.006	125.0	246	47.3	15.85	103.5	3.57
107290		0.23	0.150	2.75	0.91	129	1.67	0.084	0.03	0.006	54.8	3.90	20.6	5.15	143.5	0.640
107291		0.18	0.081	1.43	3.92	62	0.64	0.208	0.03	0.011	44.5	7.24	16.4	1.63	14.95	0.390
107292		0.38	0.170	2.16	5.21	107	1.08	0.137	0.03	<0.005	47.5	11.45	24.0	2.78	39.0	0.750
107293		0.27	0.019	2.82	1.57	368	1.33	0.269	0.04	0.010	38.5	3.66	35.8	4.12	15.50	3.00
107294		0.19	0.012	9.54	11.30	690	7.98	0.049	0.08	<0.005	130.5	4.99	48.4	21.2	0.85	2.15
107295		0.40	0.021	1.73	1.56	120	0.89	0.048	0.01	<0.005	20.3	1.780	19.1	3.15	1.97	0.990
107296		0.32	0.146	2.93	4.63	181	1.92	0.113	0.04	0.021	54.6	5.16	31.9	4.62	80.4	0.990
107297		0.19	0.177	1.61	4.09	104	1.45	0.132	0.03	0.023	33.1	5.14	22.5	2.47	130.0	1.020
107298		0.27	0.368	4.13	12.00	152	2.72	0.791	0.01	<0.005	71.2	16.50	29.5	4.49	15.90	3.12
107299		0.22	0.018	4.67	0.69	225	2.89	0.105	0.07	<0.005	102.5	3.29	33.4	5.42	1.27	1.610
107300		0.13	0.558	9.53	15.40	450	5.82	0.181	0.08	0.065	138.0	12.90	46.7	14.05	913	1.610
107301		0.08	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
107302		0.29	0.014	1.60	0.45	163	0.99	0.242	0.02	0.006	27.2	1.200	29.3	3.92	1.33	3.33
107303		0.24	0.013	1.40	0.36	460	0.73	0.100	0.02	<0.005	20.4	1.380	19.1	2.61	4.96	1.190
107304		0.30	0.011	2.05	0.12	95	1.25	0.072	0.02	0.006	24.0	2.39	18.2	3.09	1.67	1.240
107305		0.06	0.011	2.34	0.63	230	0.53	0.032	5.14	0.033	16.15	7.07	20.7	1.71	18.05	2.62
107306		0.07	0.016	3.48	0.84	371	0.41	0.022	0.94	<0.005	31.1	2.05	23.6	1.81	39.6	2.24
107307		0.08	0.124	8.21	5.31	650	4.43	0.515	0.66	0.016	83.9	17.25	63.8	21.5	13.10	2.75
107308		0.08	0.055	5.99	1.81	560	1.70	0.215	1.73	0.043	79.0	8.62	31.3	8.82	48.0	2.82
107309		0.11	0.064	3.78	1.30	373	1.03	0.856	0.20	0.007	47.9	7.55	17.9	3.86	71.5	1.540
107310		0.13	0.008	0.95	0.37	150	0.14	0.042	0.05	<0.005	11.85	0.643	12.4	1.24	2.74	0.410
107311		0.14	0.122	7.22	26.9	810	3.07	0.892	0.16	0.007	101.5	17.15	41.9	12.55	22.0	3.11

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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ga ppm 0.05	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
107272		15.90	0.15	3.48	0.058	3.24	47.4	50.4	1.76	2140	4.02	1.120	12.40	75.1	0.189	26.6
107273		16.40	0.15	3.71	0.030	3.95	43.6	27.2	1.11	1320	1.74	1.200	15.45	34.3	0.162	45.8
107274		12.30	0.13	3.18	0.042	1.73	37.4	47.1	0.76	1515	0.69	1.340	10.35	16.55	0.098	5.46
107275		18.85	0.15	3.73	0.088	3.94	44.5	56.3	1.24	1035	0.77	1.545	15.20	33.4	0.125	18.95
107276		8.58	0.11	2.47	0.028	4.51	23.1	32.4	0.76	285	4.07	0.119	7.50	11.50	0.052	23.6
107277		20.3	0.14	3.93	0.107	4.29	39.4	49.2	1.40	158.0	1.31	0.081	14.45	45.3	0.029	20.2
107278		6.37	0.11	2.22	0.033	2.39	19.90	14.1	6.64	1840	0.61	0.036	5.33	11.60	0.031	5.66
107279		11.95	0.12	2.66	0.051	4.02	28.1	25.2	2.16	349	0.50	0.154	8.24	18.00	0.028	8.70
107280		9.53	0.12	2.72	0.038	3.15	26.3	18.5	5.42	660	3.39	0.065	6.34	20.5	0.034	34.5
107281		14.10	0.22	4.97	0.062	3.55	57.7	14.6	0.60	88.7	1.52	0.044	8.69	48.4	0.023	72.7
107282		23.7	0.16	4.51	0.087	5.29	55.7	21.6	0.80	95.6	2.43	0.060	15.05	21.7	0.024	32.9
107283		26.9	0.25	3.74	0.072	5.57	51.2	18.8	0.78	149.0	1.16	0.051	15.50	28.3	0.017	66.5
107284		24.3	0.20	3.24	0.141	5.31	54.0	16.6	0.76	153.5	0.99	0.042	14.60	56.9	0.024	87.5
107285		3.27	0.27	0.498	0.611	0.59	11.75	3.4	0.40	19050	0.60	0.011	1.360	286	0.294	144.5
107286		9.32	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
107287		9.22	0.10	3.00	0.040	2.49	34.0	7.3	0.28	84.9	0.60	0.030	5.87	12.40	0.016	28.5
107288		17.80	0.11	4.22	0.077	4.01	43.9	14.0	0.56	377	0.55	0.072	13.55	24.9	0.020	32.1
107289		23.9	0.17	6.99	0.084	5.04	71.1	16.5	0.59	105.0	2.40	0.056	16.75	128.5	0.022	77.7
107290		6.43	0.09	2.23	0.017	1.66	27.9	5.5	0.19	34.1	0.92	0.026	5.14	5.79	0.013	6.39
107291		3.21	0.07	1.930	0.017	0.81	22.1	1.9	0.07	41.1	1.02	0.013	2.80	5.74	0.013	5.70
107292		5.13	0.08	2.49	0.020	1.25	23.8	2.8	0.12	48.6	1.36	0.015	3.61	7.34	0.016	5.31
107293		6.52	0.09	3.29	0.013	1.17	21.6	9.7	0.27	56.0	1.82	0.015	5.36	7.46	0.017	4.23
107294		25.3	0.18	4.15	0.055	5.43	63.7	22.8	0.63	44.3	0.31	0.051	16.95	14.70	0.047	13.45
107295		3.56	0.07	2.83	0.014	0.89	12.20	4.7	0.10	37.5	1.13	0.010	2.71	2.68	0.004	4.94
107296		6.77	0.09	1.960	0.017	1.65	27.7	6.0	0.17	47.1	1.85	0.018	4.32	6.52	0.017	3.08
107297		3.88	0.07	1.315	0.021	0.90	17.85	2.8	0.10	27.5	1.05	0.019	2.58	5.55	0.011	4.18
107298		9.38	0.11	3.78	0.027	2.22	35.9	5.0	0.20	45.2	1.02	0.023	6.07	22.0	0.024	18.45
107299		11.35	0.15	3.96	0.030	2.66	48.4	6.4	0.24	45.2	1.27	0.027	8.38	9.58	0.034	2.44
107300		24.0	0.20	6.30	0.049	5.30	68.4	19.2	0.50	34.6	0.34	0.053	17.05	31.9	0.045	5.76
107301		2.26	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
107302		3.83	0.06	1.870	0.015	0.95	15.25	6.7	0.11	44.5	1.69	0.013	2.69	3.35	0.007	5.31
107303		3.24	0.06	1.585	0.014	0.77	11.65	3.2	0.09	15.8	1.27	0.014	2.01	3.31	0.007	1.86
107304		4.68	0.05	1.450	0.009	0.99	12.60	9.5	0.16	26.6	1.07	0.018	3.02	4.29	0.009	2.13
107305		3.83	0.06	0.777	0.068	1.74	7.54	24.2	3.65	1270	0.53	0.042	2.43	9.26	0.013	11.55
107306		7.24	0.08	1.775	0.018	3.08	15.25	22.7	1.32	295	0.76	0.060	3.78	10.60	0.035	12.35
107307		23.2	0.15	4.78	0.047	4.38	39.5	85.3	1.80	153.0	0.57	0.080	16.05	22.7	0.151	18.65
107308		13.35	0.15	2.96	0.049	5.03	36.5	61.7	2.10	437	0.48	0.083	10.05	23.3	0.117	15.05
107309		8.24	0.10	2.11	0.016	3.38	23.2	41.7	0.82	89.7	0.43	0.069	4.06	11.60	0.055	13.55
107310		1.50	0.05	0.953	<0.005	1.18	5.82	3.4	0.05	48.1	0.94	0.026	1.345	1.28	0.008	6.40
107311		17.75	0.15	4.57	0.046	4.24	47.8	84.8	1.46	67.9	1.23	0.077	13.65	27.4	0.058	22.3

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Sample Description	Method / Analyte / Units / LOD	ME-MS61L Rb ppm 0.02	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
107272		195.0	<0.002	2.63	1.56	11.30	3.2	3.39	94.2	0.99	0.24	15.65	0.347	1.515	3.71	183.5
107273		176.5	0.002	1.62	0.79	11.85	2.1	3.83	133.5	1.21	0.13	16.50	0.392	1.520	3.24	113.0
107274		110.5	<0.002	0.47	0.65	8.56	0.3	2.76	105.5	0.85	0.06	15.65	0.307	0.848	2.49	50.8
107275		203	<0.002	0.97	0.67	13.55	0.7	5.13	143.0	1.32	0.08	16.95	0.433	1.880	2.92	82.4
107276		135.0	<0.002	0.03	0.23	6.35	0.6	1.45	47.0	0.57	<0.04	12.95	0.171	0.740	1.71	34.0
107277		170.5	0.128	3.67	0.89	16.00	1.1	4.12	21.7	1.14	0.11	19.00	0.428	1.545	8.39	112.0
107278		69.2	<0.002	0.01	0.33	7.62	0.4	1.12	49.0	0.42	0.05	7.28	0.258	0.321	1.74	58.5
107279		136.0	<0.002	0.57	0.37	8.49	0.2	2.64	41.7	0.70	0.09	9.74	0.274	2.39	2.10	57.5
107280		86.8	<0.002	0.93	1.03	7.24	0.7	1.85	45.8	0.52	0.04	8.94	0.237	3.03	2.38	60.1
107281		171.0	0.003	5.95	2.46	11.20	0.9	3.84	31.7	0.81	<0.04	24.2	0.236	1.350	3.32	60.2
107282		248	0.002	1.44	0.85	17.00	0.4	6.12	38.4	1.37	0.07	24.2	0.398	1.160	2.80	95.0
107283		254	0.002	4.39	1.82	20.3	0.9	6.24	27.6	1.40	0.07	16.50	0.435	1.335	2.73	107.0
107284		242	0.002	3.43	1.11	19.65	3.2	6.21	20.6	1.34	0.05	20.8	0.402	1.180	3.94	96.1
107285		29.2	<0.002	2.41	0.95	7.94	<0.2	0.56	29.5	0.12	<0.04	3.41	0.045	0.218	13.65	14.8
107286		95.0	<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
107287		124.0	<0.002	0.59	0.81	5.58	<0.2	2.34	19.55	0.59	0.04	12.40	0.128	0.561	2.61	26.1
107288		211	<0.002	0.26	1.26	12.85	<0.2	5.19	24.9	1.36	<0.04	20.2	0.278	0.962	3.89	54.7
107289		268	0.005	2.56	5.18	16.20	0.4	6.02	32.4	1.56	<0.04	38.7	0.365	1.415	6.11	66.3
107290		89.1	<0.002	0.04	0.28	4.44	<0.2	1.76	18.55	0.51	<0.04	11.00	0.122	0.401	1.55	22.0
107291		38.1	<0.002	0.05	0.27	2.08	<0.2	0.94	12.70	0.25	<0.04	6.64	0.065	0.179	1.76	10.9
107292		61.2	<0.002	0.17	0.54	3.79	<0.2	1.29	15.40	0.36	<0.04	8.14	0.095	0.272	1.20	17.6
107293		62.7	<0.002	0.49	0.72	4.48	0.2	1.57	9.63	0.51	<0.04	10.70	0.135	0.261	1.89	23.6
107294		296	<0.002	<0.01	1.69	16.95	<0.2	6.08	43.8	1.60	<0.04	25.1	0.386	1.270	3.19	76.8
107295		50.2	<0.002	0.39	0.28	1.85	<0.2	0.95	6.75	0.26	<0.04	6.62	0.061	0.217	0.77	6.7
107296		89.0	<0.002	0.09	0.36	4.59	0.3	1.67	9.77	0.41	<0.04	8.44	0.112	0.370	1.22	20.6
107297		42.9	<0.002	0.73	0.40	2.58	0.3	1.16	10.05	0.25	0.05	5.28	0.066	0.203	1.21	10.6
107298		106.0	<0.002	2.87	0.96	6.14	0.2	2.38	61.7	0.60	<0.04	13.50	0.147	0.464	6.15	36.1
107299		135.0	<0.002	0.73	0.18	7.60	0.2	3.09	10.55	0.81	<0.04	17.50	0.190	0.532	1.34	30.8
107300		297	<0.002	0.17	0.96	15.45	0.3	5.86	32.4	1.59	0.06	27.9	0.398	1.165	3.03	70.0
107301		31.7	<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
107302		56.5	<0.002	0.20	0.34	2.47	<0.2	0.79	20.3	0.26	<0.04	5.98	0.067	0.235	1.52	16.3
107303		43.4	<0.002	0.35	0.20	1.71	<0.2	0.73	15.55	0.19	<0.04	4.51	0.046	0.184	0.66	6.1
107304		54.7	<0.002	0.15	0.14	2.52	<0.2	1.16	9.01	0.30	<0.04	5.48	0.061	0.229	0.69	10.1
107305		65.6	<0.002	0.02	0.16	18.45	<0.2	0.35	41.7	0.20	<0.04	3.30	0.054	0.329	0.72	11.0
107306		106.0	<0.002	<0.01	0.15	5.44	<0.2	1.00	42.6	0.30	<0.04	6.51	0.122	0.532	0.74	28.4
107307		183.5	0.023	0.62	0.53	15.95	0.3	4.16	43.3	1.30	<0.04	20.6	0.457	0.951	3.22	80.7
107308		163.0	0.031	0.11	0.16	10.15	0.2	2.36	52.9	0.79	<0.04	14.40	0.276	0.782	2.02	42.8
107309		115.0	<0.002	0.01	0.11	4.92	<0.2	1.11	41.1	0.31	<0.04	8.60	0.112	0.524	2.10	25.7
107310		40.5	<0.002	0.01	0.06	0.72	<0.2	0.24	17.20	0.09	0.05	3.38	0.031	0.216	0.57	3.0
107311		153.5	0.007	0.48	0.57	11.95	1.3	3.25	39.3	1.03	0.07	24.0	0.323	0.897	2.77	75.5

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Finalized Date: 28-JUN-2018
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Project: ZURGENEX

CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L W ppm 0.008	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
107272		0.816	38.4	181.0	135.0	6.65	3.72	1.350	6.97	1.245	0.533	40.3	10.35	8.00	1.045	0.525
107273		3.17	34.7	120.5	132.0	6.12	3.53	1.355	6.64	1.150	0.442	37.0	9.63	7.43	0.999	0.477
107274		1.445	24.2	40.3	116.0	4.57	2.75	0.926	4.59	0.901	0.400	29.7	7.86	5.66	0.704	0.395
107275		2.42	22.3	95.5	132.5	4.42	2.40	1.240	5.11	0.803	0.356	34.6	9.39	6.50	0.745	0.351
107276		0.749	15.35	12.2	95.8	3.18	1.665	0.768	3.60	0.563	0.227	20.5	5.43	4.31	0.527	0.239
107277		7.70	21.1	18.1	147.5	4.12	2.46	0.851	4.13	0.780	0.365	31.9	8.66	5.72	0.619	0.366
107278		1.065	17.05	10.0	87.6	3.32	1.725	0.808	3.76	0.587	0.236	18.00	4.57	3.97	0.553	0.234
107279		1.445	17.50	8.4	101.5	3.35	1.990	0.879	3.71	0.631	0.274	23.6	6.23	4.37	0.528	0.273
107280		0.806	17.65	10.2	97.2	3.53	1.895	0.893	4.11	0.616	0.255	21.7	5.72	4.66	0.598	0.258
107281		2.17	53.0	32.2	167.5	11.80	5.24	2.49	15.55	1.925	0.609	61.2	14.60	14.85	2.24	0.667
107282		3.84	23.1	31.3	164.0	4.49	2.69	1.200	5.23	0.862	0.461	42.9	11.85	7.63	0.727	0.406
107283		4.17	17.10	42.3	133.0	3.49	2.01	1.465	4.35	0.621	0.350	35.2	9.93	6.03	0.592	0.328
107284		3.50	24.6	36.9	115.5	4.82	2.90	1.470	5.76	0.908	0.440	43.4	11.65	8.20	0.800	0.406
107285		0.567	34.2	577	21.2	5.68	3.05	1.265	6.39	1.045	0.405	14.60	3.39	4.63	0.948	0.400
107286		1.380	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
107287		1.330	12.90	13.6	106.0	2.65	1.410	0.742	3.31	0.465	0.218	27.1	7.41	4.88	0.439	0.201
107288		3.30	20.8	30.6	142.5	4.09	2.21	1.075	4.97	0.738	0.341	34.2	9.47	6.60	0.697	0.319
107289		3.89	34.9	21.7	245	7.17	3.62	1.325	8.29	1.230	0.512	52.1	14.40	10.25	1.220	0.512
107290		1.065	10.30	7.6	77.6	2.28	1.020	0.625	3.36	0.390	0.148	23.3	6.22	4.66	0.417	0.146
107291		0.580	6.71	3.6	69.8	1.370	0.808	0.425	1.785	0.251	0.121	18.40	5.07	3.09	0.231	0.114
107292		0.830	24.5	4.5	93.8	4.80	2.19	0.640	4.02	0.791	0.262	20.0	5.43	3.89	0.830	0.279
107293		2.99	11.25	15.7	120.0	2.30	1.280	0.619	2.87	0.397	0.215	17.25	4.55	3.67	0.414	0.178
107294		3.98	24.8	18.3	147.5	4.95	2.74	1.555	6.65	0.890	0.411	55.8	14.70	9.86	0.890	0.390
107295		0.689	10.65	3.4	101.5	1.920	1.085	0.322	1.820	0.357	0.171	9.22	2.47	1.900	0.304	0.157
107296		2.39	10.70	10.3	71.1	2.24	1.230	0.600	2.81	0.392	0.186	23.8	6.29	4.51	0.382	0.170
107297		0.580	5.36	5.1	44.1	1.105	0.617	0.356	1.500	0.202	0.099	13.20	3.80	2.29	0.182	0.093
107298		1.350	15.15	9.5	140.0	3.13	1.730	0.703	3.39	0.561	0.245	28.8	7.90	4.87	0.491	0.245
107299		2.94	16.00	9.5	139.0	3.45	1.850	1.175	4.96	0.609	0.268	43.2	11.30	7.85	0.626	0.264
107300		3.66	35.6	36.5	217	7.21	3.85	2.03	8.42	1.275	0.556	67.6	17.05	13.40	1.185	0.544
107301		0.475	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
107302		2.51	6.73	6.3	66.1	1.455	0.825	0.458	1.905	0.255	0.129	12.10	3.23	2.65	0.252	0.112
107303		0.498	7.45	4.3	56.3	1.345	0.803	0.322	1.505	0.246	0.117	9.19	2.48	2.02	0.225	0.113
107304		0.741	7.77	4.6	50.9	1.425	0.803	0.342	1.605	0.277	0.107	10.30	2.79	1.940	0.234	0.120
107305		0.151	15.15	19.4	33.0	2.58	1.975	0.412	1.680	0.573	0.321	7.80	1.910	1.695	0.324	0.314
107306		0.379	8.88	10.0	64.7	1.560	0.959	0.624	1.615	0.314	0.156	13.40	3.60	2.15	0.237	0.145
107307		2.51	30.2	23.8	167.0	6.00	3.21	1.495	7.14	1.120	0.431	35.7	9.30	7.86	0.996	0.459
107308		1.450	19.20	18.8	104.5	4.03	2.14	1.205	5.17	0.735	0.290	32.7	8.82	6.35	0.695	0.296
107309		0.491	10.60	8.5	74.2	2.07	1.090	0.668	2.63	0.399	0.171	20.1	5.57	3.35	0.359	0.173
107310		0.151	2.82	2.8	34.6	0.515	0.291	0.236	0.655	0.096	0.042	5.10	1.380	0.932	0.079	0.044
107311		1.620	22.5	13.9	156.0	4.50	2.41	1.105	5.54	0.849	0.340	41.8	11.25	7.47	0.795	0.360

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Project: ZURGENEX

CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method Analyte Units LOD	MS61L-REE Yb ppm 0.004	PUL-QC Pass75um % 0.01	CRU-QC Pass2mm % 0.01
107272		3.49	99.1	76.2
107273		3.13		
107274		2.70		
107275		2.35		
107276		1.495		
107277		2.37		
107278		1.515		
107279		1.840		
107280		1.720		
107281		4.12		
107282		2.94		
107283		2.27		
107284		2.77		
107285		2.59		
107286		2.97		
107287		1.445		
107288		2.17		
107289		3.28		
107290		1.005		
107291		0.776		
107292		1.620		
107293		1.300		
107294		2.71		
107295		1.075		
107296		1.170		
107297		0.628		
107298		1.625		
107299		1.820		
107300		3.57		
107301		0.586		
107302		0.834		
107303		0.769		
107304		0.785		
107305		2.22		
107306		0.960		
107307		2.95		
107308		1.905		
107309		1.165		
107310		0.285		
107311		2.25		

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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	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
107312		0.16	0.046	6.92	0.84	168	0.69	0.031	3.82	0.470	21.7	50.3	124.0	0.42	396	9.77
107313		0.13	0.051	9.36	8.85	600	4.11	0.590	0.47	<0.005	100.5	14.00	69.7	18.75	12.00	3.05
107314		0.26	0.133	5.89	17.85	480	2.89	1.070	0.46	0.013	46.7	20.8	33.0	5.65	1280	2.42
107315		0.27	0.055	4.32	7.91	349	2.35	0.870	5.46	0.058	43.6	14.60	23.7	8.21	36.4	3.64
107316		0.24	0.006	6.85	0.86	152	0.83	0.060	2.26	<0.005	18.90	43.5	101.0	2.39	139.5	9.38
107317		0.15	0.007	7.57	0.73	89	0.60	0.046	1.74	<0.005	17.90	50.7	187.5	1.51	55.8	8.17
107318		0.24	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
107319		0.19	0.021	7.24	0.48	50	0.48	0.029	7.54	0.119	12.30	39.2	76.4	0.79	32.6	8.62
107320		0.16	0.015	7.13	0.31	49	0.77	0.018	6.81	0.129	29.9	37.7	36.0	0.97	1.36	9.72
107321		0.55	0.296	3.49	2.21	264	2.06	0.242	8.15	0.130	81.8	45.0	29.4	12.10	209	14.55
107322		0.29	0.019	3.81	1.76	211	1.22	0.369	13.45	0.014	47.7	6.96	34.5	5.99	26.5	2.30
107323		0.30	0.306	2.55	3.92	199	0.80	0.229	7.07	0.026	32.3	7.03	20.1	3.58	73.8	1.010
107324		0.18	0.168	3.44	16.95	326	1.31	0.716	11.30	14.05	22.8	13.15	23.3	5.26	628	2.83
107325		0.76	1.610	6.87	92.1	520	3.17	0.862	0.80	0.485	93.5	67.7	47.8	11.95	1480	5.37
107326		0.25	0.021	4.05	1.73	144	0.48	0.054	8.69	0.055	15.45	18.60	25.7	0.75	26.0	4.91
107327		0.20	0.014	6.72	1.22	91	0.57	0.057	2.87	0.041	24.3	38.9	123.5	0.93	108.0	9.74
107328		0.18	0.012	6.88	0.81	44	0.63	0.041	2.64	0.014	18.40	46.5	120.5	0.39	57.8	8.96
107329		0.44	1.935	0.29	12.75	117	0.39	0.179	0.04	0.007	19.20	1.350	28.9	0.16	35.5	0.850
107330		0.12	0.673	9.22	2.08	342	2.79	0.486	0.03	<0.005	87.3	0.885	61.3	9.50	23.3	1.190
107331		0.26	0.789	8.59	51.1	335	2.33	0.824	0.02	0.032	104.5	4.32	72.3	8.85	38.3	3.92
107332		0.23	0.072	4.49	12.70	430	2.47	0.711	4.90	0.026	39.8	19.35	25.0	7.92	594	4.53
107333		0.36	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
107334		0.05	1.005	1.26	288	10	0.41	16.70	0.11	0.059	27.2	111.0	55.9	0.27	3920	3.98

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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Ga ppm 0.05	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
107312		20.6	0.25	2.62	0.091	1.03	9.01	61.9	4.74	1070	0.58	2.84	6.99	83.6	0.064	8.46
107313		28.0	0.20	4.20	0.099	5.15	49.2	89.8	1.80	113.0	0.40	0.077	16.20	28.6	0.036	10.55
107314		13.55	0.12	4.04	0.035	3.18	21.5	37.6	0.89	200	1.81	0.983	9.14	22.0	0.057	39.6
107315		11.30	0.13	2.73	0.028	2.53	20.5	38.5	3.50	1800	0.76	0.089	8.04	20.4	0.042	9.84
107316		18.60	0.24	2.39	0.103	4.41	7.89	196.0	6.01	514	0.54	0.197	6.03	62.1	0.062	6.73
107317		22.1	0.29	2.87	0.059	1.39	6.85	141.5	8.07	402	0.71	1.760	6.99	89.5	0.073	4.78
107318		20.8	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
107319		20.1	0.20	0.747	0.084	0.20	3.87	10.3	3.52	1725	0.53	2.20	2.04	30.7	0.070	4.99
107320		22.7	0.17	0.979	0.115	0.21	11.70	13.2	3.88	2080	0.51	2.45	3.69	29.3	0.131	6.15
107321		10.35	0.16	3.06	0.360	2.47	46.9	6.8	1.79	7780	0.40	0.528	9.91	48.4	0.130	9.48
107322		9.51	0.10	1.985	0.047	3.47	24.9	72.0	3.81	442	0.35	0.066	8.21	17.80	0.031	19.10
107323		5.86	0.07	2.67	0.011	1.85	16.15	44.6	4.72	155.0	1.00	0.212	4.43	8.69	0.017	18.15
107324		9.68	0.07	1.520	0.076	1.78	11.25	24.6	6.64	2270	1.34	0.202	6.21	19.55	0.042	247
107325		18.15	0.15	4.00	0.043	3.95	37.7	54.4	1.82	772	5.66	0.144	13.60	57.5	0.073	277
107326		13.10	0.09	1.845	0.029	4.42	7.19	15.5	5.95	1630	0.69	0.043	4.44	40.9	0.034	5.80
107327		16.35	0.15	2.00	0.074	1.79	9.94	51.3	5.25	1075	0.83	2.05	6.75	72.5	0.061	5.70
107328		19.80	0.15	2.43	0.084	0.64	7.43	39.2	5.64	1125	0.88	2.90	6.73	87.1	0.064	6.92
107329		0.71	0.06	0.461	<0.005	0.13	8.91	0.8	0.04	58.4	2.88	0.009	0.390	5.22	0.007	33.7
107330		26.7	0.14	3.23	0.077	4.78	38.7	29.4	0.91	21.6	0.09	0.056	18.10	7.27	0.008	15.95
107331		25.5	0.17	4.20	0.094	4.78	48.6	28.4	0.88	39.5	1.21	0.066	14.10	8.64	0.014	33.0
107332		11.90	0.11	2.48	0.035	2.44	20.0	35.4	3.32	3050	1.59	0.090	8.56	26.4	0.042	10.55
107333		0.13	<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
107334		4.08	0.07	0.796	0.147	0.06	14.50	8.3	2.03	75.1	9.61	0.013	1.585	13.45	0.026	125.0

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

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Finalized Date: 28-JUN-2018
Account: FIQUMIEX

Project: ZURGENEX

CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L Rb ppm 0.02	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
107312		15.85	<0.002	0.04	0.06	37.7	0.4	1.00	164.5	0.45	<0.04	1.490	1.010	0.077	0.32	306
107313		192.5	<0.002	0.27	0.50	19.05	0.2	4.30	25.9	1.30	0.07	18.55	0.422	0.916	2.65	116.0
107314		181.0	<0.002	0.01	0.32	6.99	<0.2	4.48	72.2	1.26	<0.04	11.30	0.243	0.928	13.00	41.8
107315		167.0	<0.002	0.01	0.13	6.53	0.3	3.18	46.8	0.89	0.04	10.75	0.175	1.075	8.78	38.5
107316		54.7	<0.002	0.01	0.06	37.0	<0.2	0.91	40.2	0.39	<0.04	1.240	0.942	0.380	2.47	238
107317		14.95	0.002	0.01	0.07	41.1	0.9	1.06	39.3	0.45	<0.04	1.165	1.055	0.402	2.52	345
107318		6.86	<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
107319		5.59	<0.002	0.09	0.09	49.4	0.4	1.11	157.5	0.15	<0.04	0.161	1.180	0.133	0.06	369
107320		6.36	<0.002	<0.01	0.11	47.6	0.2	1.68	172.0	0.26	<0.04	0.359	1.675	0.111	0.29	415
107321		105.0	<0.002	1.76	0.31	6.50	2.1	3.83	102.0	0.78	0.05	14.80	0.258	0.828	3.30	38.0
107322		105.5	<0.002	0.01	0.33	7.72	0.4	1.87	74.7	0.64	0.08	8.45	0.210	0.352	1.84	54.7
107323		78.8	0.010	0.57	0.27	3.71	0.2	1.42	44.0	0.37	<0.04	8.08	0.126	0.722	1.66	27.2
107324		110.0	0.002	0.94	0.31	6.15	0.7	3.22	100.0	0.59	<0.04	5.27	0.164	1.270	2.42	42.0
107325		209	0.018	1.72	1.34	13.10	0.5	5.41	40.6	1.31	0.08	17.60	0.354	4.96	3.79	79.5
107326		51.2	0.002	0.01	0.16	18.20	0.3	0.80	23.0	0.32	<0.04	2.43	0.601	0.403	3.97	158.0
107327		29.0	<0.002	0.01	0.09	36.7	12.1	0.91	66.0	0.42	<0.04	1.120	0.969	0.134	0.47	340
107328		18.65	<0.002	<0.01	0.08	38.7	1.5	1.04	138.5	0.44	<0.04	1.150	1.050	0.104	0.31	334
107329		5.30	<0.002	0.01	3.29	0.67	1.2	0.15	9.39	0.04	<0.04	2.34	0.014	0.039	2.50	4.1
107330		226	<0.002	<0.01	2.57	22.0	<0.2	5.72	12.20	1.57	<0.04	21.4	0.448	0.988	3.56	112.5
107331		217	<0.002	0.03	1.93	18.90	3.0	5.80	29.7	1.32	0.07	23.6	0.412	0.785	11.55	114.0
107332		157.5	<0.002	0.01	0.13	7.70	0.7	3.26	51.7	0.86	0.07	10.60	0.188	1.205	7.44	48.7
107333		0.34	<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
107334		2.00	<0.002	2.91	6.89	1.37	0.7	0.40	1.14	0.14	<0.04	2.50	0.037	12.80	1.66	10.2

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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method / Analyte / Units / LOD	ME-MS61L W ppm 0.008	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
107312		0.129	23.6	268	97.2	4.78	2.55	1.390	4.70	0.915	0.311	14.65	3.09	4.10	0.749	0.359
107313		2.69	28.3	24.8	151.0	5.58	3.21	1.270	6.17	1.065	0.435	42.7	11.40	7.62	0.926	0.447
107314		2.43	16.05	94.9	161.0	3.12	1.810	0.786	3.22	0.596	0.271	20.0	5.45	3.96	0.511	0.260
107315		1.400	15.30	51.2	101.5	2.79	1.610	0.584	2.66	0.534	0.242	17.30	4.90	3.12	0.433	0.232
107316		0.143	23.9	127.5	99.3	4.65	2.79	1.340	4.30	0.935	0.377	13.05	2.77	3.69	0.708	0.386
107317		0.143	22.1	184.5	110.5	4.20	2.50	0.940	3.97	0.862	0.335	12.35	2.59	3.31	0.630	0.370
107318		0.254	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
107319		0.207	39.1	102.5	13.0	7.34	4.44	1.605	5.95	1.530	0.575	11.80	2.15	4.27	1.060	0.629
107320		0.188	60.0	123.0	27.7	11.00	6.76	2.62	9.50	2.23	0.837	22.3	4.38	7.21	1.585	0.932
107321		0.314	28.2	83.1	112.5	4.94	2.79	1.320	5.13	0.950	0.409	28.3	8.05	5.65	0.786	0.397
107322		1.150	15.30	61.0	74.5	2.81	1.585	0.670	3.06	0.560	0.221	19.55	5.37	3.81	0.447	0.219
107323		0.793	9.13	14.7	103.5	1.770	1.040	0.386	2.05	0.332	0.142	13.20	3.61	2.58	0.311	0.149
107324		1.335	12.15	7300	58.8	2.26	1.170	0.512	2.51	0.419	0.165	11.15	2.73	2.69	0.361	0.160
107325		2.90	22.1	568	154.0	4.43	2.38	1.130	5.86	0.797	0.328	42.8	10.80	7.95	0.777	0.351
107326		0.325	12.75	37.8	70.2	2.40	1.490	0.557	2.24	0.487	0.190	8.19	1.985	2.17	0.369	0.206
107327		0.152	23.3	133.0	70.1	4.62	2.32	1.300	4.80	0.879	0.266	15.95	3.26	4.35	0.737	0.305
107328		0.262	22.1	125.0	85.3	4.55	2.40	1.320	4.57	0.854	0.285	13.65	2.77	3.84	0.706	0.313
107329		0.182	3.51	8.1	15.5	0.650	0.365	0.247	1.150	0.121	0.050	8.79	2.27	1.680	0.127	0.050
107330		3.96	22.4	29.9	119.5	4.67	2.75	1.340	5.42	0.904	0.399	40.2	10.30	8.14	0.787	0.403
107331		3.69	18.40	24.0	151.5	4.08	2.25	1.275	5.34	0.740	0.365	41.1	11.15	7.53	0.709	0.354
107332		1.520	15.30	57.0	101.5	2.75	1.525	0.591	2.73	0.515	0.221	15.70	4.41	2.93	0.435	0.224
107333		0.693	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
107334		1.785	3.09	17.5	31.9	0.686	0.326	0.379	1.525	0.120	0.047	12.05	3.10	2.39	0.143	0.048

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CERTIFICATE OF ANALYSIS PH18138544

Sample Description	Method Analyte Units LOD	MS61L-REE Yb ppm 0.004	PUL-QC Pass75um % 0.01	CRU-QC Pass2mm % 0.01
107312		2.14		
107313		2.96		
107314		1.725		
107315		1.535		
107316		2.44		
107317		2.28		
107318		6.58		
107319		3.84		
107320		5.96		
107321		2.71		
107322		1.480	99.0	
107323		0.984		91.5
107324		1.055		
107325		2.20		
107326		1.300		
107327		1.880		
107328		1.985		
107329		0.348		
107330		2.62		
107331		2.37		
107332		1.445		
107333		0.044		
107334		0.308		

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CERTIFICATE OF ANALYSIS PH18138544

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	