

MINERALS TEST REPORT

CLIENT

LUKE PICKERING
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 AUSTRALIA

JOB INFORMATION

JOB CODE : 2310.0/2402974
 NO. SAMPLES : 147
 NO. ELEMENTS : 61
 CLIENT ORDER NO. : PO 4542848435 (Job 1 of 1)
 SAMPLE SUBMISSION NO. : South32GFE003
 PROJECT : Carrara
 SAMPLE TYPE : Drill core
 DATE RECEIVED : 21/02/2024
 DATE TESTED : 27/02/2024 - 08/03/2024
 DATE REPORTED : 08/03/2024
 DATE PRINTED : 08/03/2024

REPORT NOTES

TESTED BY

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SIGNIFICANT FIGURES

It is common practice to report data derived from analytical instrumentation to a maximum of two or three significant figures. Some data reported herein may show more figures than this. The reporting of more than two or three figures in no way implies that figures beyond the least significant digit have significance.

For more information on the uncertainty on individual reported values, please contact the laboratory.

MEASUREMENT OF UNCERTAINTY

Measurement of uncertainty estimates are available for most tests upon request.

SAMPLE STORAGE

All solid samples (assay pulps, bulk pulps and residues) will be stored for 60 days without charge. Following this samples will be stored at a daily rate until clients written advice regarding return, collection or disposal is received. If storage information is not supplied on the submission, or arranged with the laboratory in writing the default will be to store the samples with the applicable charges. Storage is charged at \$4.00 per m3 per day, expenses related to the return or disposal of samples will also be charged. Current disposal costs including packaging in a Class2 waste disposal facility is charged at \$175.00 per m3.

Samples received as liquids, waters or solutions will be held for 60 days free of charge then disposed of, unless written advice for return or collection is received.

LEGEND	X	= Less than Detection Limit	NA	= Not Analysed
	SNR	= Sample Not Received	UA	= Unable to Assay
	LNR	= Lab Not Received	>	= Value beyond Limit of Method
	DTF	= Result still to come	+	= Extra Sample Received Not Listed
	I/S	= Insufficient Sample for Analysis		

UNITS	ppm for Solid Samples	= mg/Kg
	ppb for Solid Samples	= µg/Kg
	ppm for Liquid Samples	= mg/L
	ppb for Liquid Samples	= µg/L



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	0.006	0.09	762	2.6	7.1	0.13	0.02	19.27%	0.12	2.42
0002 C002	0.006	0.63	1.60%	17.9	80.1	0.79	0.35	14.48%	0.18	20.86
0003 C003	X	X	2.90%	8.3	182.1	1.51	0.40	5.48%	0.03	43.23
0004 C004	X	X	1.92%	7.0	132.2	0.88	0.22	2.15%	0.02	28.55
0005 C005	X	X	5.55%	12.3	260.3	2.57	0.55	4964	X	78.93
0006 C006	X	X	7.41%	10.7	317.0	3.27	0.91	1854	X	106.28
0007 C007	X	X	7.76%	11.0	342.7	3.20	0.66	1910	X	97.51
0008 C008	X	X	7.28%	15.4	346.8	3.11	0.60	2029	0.03	106.02
0009 C009	X	X	7.24%	9.2	361.0	2.82	0.59	2067	X	80.18
0010 C010	X	X	7.14%	7.0	359.8	3.05	0.55	2000	X	93.44
0011 C011	0.011	X	7.11%	10.3	357.3	2.67	0.56	2194	X	105.91
0012 C012	X	X	7.86%	5.9	402.7	2.79	0.56	2306	X	98.44
0013 C013	X	0.11	6.75%	11.4	427.2	2.78	0.57	3101	X	86.37
0014 C014	X	0.09	6.69%	28.9	468.9	2.61	0.71	2796	X	86.42
0015 C015	X	0.13	6.61%	39.5	521.4	2.60	0.57	2557	X	89.99
0016 C016	0.007	0.14	6.63%	27.5	441.6	2.79	0.61	2610	0.03	89.10
0017 C017	X	0.12	6.94%	12.6	471.1	3.16	0.64	3544	0.03	92.69
0018 C018	X	0.13	6.66%	41.2	476.8	3.02	0.58	2518	0.33	87.59
0019 C019	X	0.10	6.54%	11.6	471.1	2.96	0.59	3009	0.23	83.84
0020 C020	X	0.10	6.47%	41.4	459.5	2.47	0.56	4382	0.07	81.13
0021 C021	X	0.09	6.44%	12.2	531.4	2.86	0.52	2240	0.24	83.75
0022 C022	X	0.10	6.41%	10.2	528.3	2.45	0.53	9360	0.03	81.59
0023 C023	X	0.08	6.15%	11.7	582.7	2.42	0.52	3124	0.13	81.42
0024 C024	X	0.08	6.59%	10.8	637.9	2.54	0.43	5145	0.22	82.36
0025 C025	X	0.08	6.29%	11.9	657.1	2.48	0.40	3503	0.18	78.26
0026 C026	X	0.08	5.45%	10.2	550.9	2.30	0.33	2700	0.12	69.05
0027 C027	X	0.07	6.86%	9.5	571.8	2.58	0.48	4145	X	85.15
0028 C028	X	0.08	6.71%	12.1	569.0	2.81	0.47	2576	0.16	85.80
0029 C029	X	0.08	6.48%	11.6	555.6	2.72	0.48	2426	0.15	84.66
0030 C030	X	X	1049	1.0	3.5	0.07	0.02	107	X	2.12
0031 C031	X	0.07	6.38%	8.8	512.0	2.62	0.45	1.35%	0.37	80.04
0032 C032	X	0.10	6.39%	10.6	508.2	2.58	0.47	2490	0.32	78.49
0033 C033	X	0.10	7.37%	9.5	486.6	2.84	0.57	2661	0.21	91.19
0034 C034	X	0.10	7.86%	9.3	508.3	2.86	0.58	4624	0.29	94.01
0035 C035	X	0.10	7.75%	6.8	502.8	2.82	0.59	2786	0.15	93.33
0036 C036	X	0.08	8.02%	6.3	469.5	2.65	0.58	8047	0.07	99.16
0037 C037	X	0.07	7.95%	6.5	468.4	2.71	0.57	2739	0.15	92.49
0038 C038	X	0.12	7.34%	10.0	447.5	2.78	0.58	3794	0.26	88.26
0039 C039	X	0.11	7.39%	9.8	525.7	2.76	0.50	7061	0.49	87.17
0040 C040	X	0.12	8.13%	8.0	476.8	2.76	0.64	5604	0.17	94.67



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	1.3	2	0.07	15.2	0.21	0.11	0.05	0.39	0.20	0.27
0002 C002	18.2	8	2.96	225.2	1.75	0.95	0.40	1.18	4.19	2.18
0003 C003	13.3	13	6.01	18.6	2.88	1.66	0.58	1.63	8.06	3.22
0004 C004	2.6	14	2.89	8.7	1.99	1.17	0.45	1.86	4.83	2.26
0005 C005	7.0	30	13.04	7.1	4.39	2.52	0.98	2.90	13.69	4.58
0006 C006	7.1	42	19.46	4.5	5.83	3.41	1.38	3.39	18.42	6.53
0007 C007	7.1	40	18.36	3.2	5.85	3.45	1.25	3.63	18.79	6.40
0008 C008	7.6	43	16.88	2.8	5.37	3.09	1.30	3.63	17.22	6.11
0009 C009	9.1	38	16.26	3.0	5.37	3.04	1.18	3.68	17.75	5.87
0010 C010	11.3	37	15.80	2.7	5.25	2.93	1.22	3.75	17.00	5.77
0011 C011	13.6	36	13.78	2.5	5.47	2.97	1.25	4.31	16.50	6.32
0012 C012	9.8	42	12.85	1.7	5.58	3.13	1.15	3.43	17.39	5.99
0013 C013	16.2	42	11.91	7.3	5.55	3.12	1.29	3.24	16.65	6.40
0014 C014	13.6	41	11.25	108.3	5.19	2.92	1.13	2.80	15.63	5.89
0015 C015	12.5	38	10.69	42.4	5.73	3.04	1.16	3.05	15.01	5.98
0016 C016	11.7	41	11.02	30.5	5.26	2.98	1.08	2.63	15.55	5.72
0017 C017	9.9	40	11.98	24.3	5.60	3.14	1.15	2.50	15.70	6.00
0018 C018	12.3	43	11.94	27.0	5.15	2.94	1.08	2.49	16.04	5.69
0019 C019	9.8	37	10.85	24.1	4.96	2.74	1.05	2.17	14.54	5.44
0020 C020	9.4	28	8.98	18.8	4.83	2.79	1.06	2.55	13.77	5.25
0021 C021	11.8	40	11.06	23.1	4.78	2.65	1.00	2.51	14.99	5.42
0022 C022	9.1	29	9.71	16.8	4.86	2.70	1.07	2.35	14.13	5.46
0023 C023	8.2	32	9.48	19.5	6.67	2.66	1.01	2.17	13.47	4.96
0024 C024	8.2	37	9.81	16.6	4.88	2.71	1.04	2.23	14.26	5.16
0025 C025	7.8	33	9.26	17.0	4.82	2.76	0.98	2.14	13.87	5.23
0026 C026	6.9	32	8.25	13.5	4.62	2.59	0.85	1.92	13.37	4.58
0027 C027	6.1	28	9.26	11.0	5.36	3.06	1.10	1.99	14.52	5.64
0028 C028	7.6	34	9.88	15.4	5.12	2.89	1.09	2.13	14.35	5.64
0029 C029	7.3	31	9.67	14.6	5.01	2.86	1.03	2.03	14.31	5.53
0030 C030	0.7	7	0.11	8.1	0.13	0.08	0.02	0.35	0.28	0.15
0031 C031	6.7	38	9.37	15.9	4.83	2.72	1.04	2.14	13.82	5.39
0032 C032	7.4	36	9.45	16.4	4.67	2.74	0.97	2.05	14.43	5.27
0033 C033	7.9	34	10.57	18.9	5.94	3.40	1.16	2.22	16.15	6.12
0034 C034	7.6	29	12.07	24.4	5.88	4.56	1.25	2.32	17.27	6.50
0035 C035	6.9	28	11.23	23.3	5.66	3.20	1.24	2.31	16.52	6.10
0036 C036	6.1	23	10.72	20.2	6.20	3.51	1.35	2.22	17.11	6.76
0037 C037	5.5	21	10.27	20.6	6.39	3.70	1.34	2.10	17.02	6.73
0038 C038	6.2	26	10.40	19.3	5.34	3.07	1.14	2.14	15.77	5.86
0039 C039	7.0	30	11.36	18.6	5.40	3.17	1.14	2.27	16.35	5.87
0040 C040	6.8	26	11.03	18.2	6.27	3.46	1.31	2.39	17.65	6.73



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	X	0.10	0.04	X	146	0.84	0.5	0.02	11.10%	2543
0002 C002	0.3	1.70	0.37	0.05	1.14%	9.58	9.9	0.14	8.48%	2291
0003 C003	1.1	3.28	0.61	0.05	1.99%	21.87	22.3	0.26	3.19%	699
0004 C004	1.2	2.37	0.43	0.05	1.24%	13.91	11.9	0.19	1.24%	538
0005 C005	1.6	4.84	0.95	0.06	3.00%	37.02	18.5	0.41	8578	266
0006 C006	2.1	6.00	1.24	0.06	3.69%	50.09	20.1	0.57	8033	89
0007 C007	1.8	6.13	1.25	0.06	3.76%	47.35	22.1	0.56	8819	93
0008 C008	2.1	5.71	1.15	0.07	3.57%	48.63	22.1	0.49	8444	101
0009 C009	1.8	5.53	1.12	0.08	3.56%	40.79	24.5	0.49	8943	102
0010 C010	1.8	5.38	1.08	0.07	3.50%	43.13	27.3	0.47	9631	118
0011 C011	2.0	5.52	1.10	0.06	3.26%	49.83	32.3	0.49	1.11%	158
0012 C012	1.7	6.14	1.13	0.06	3.82%	47.38	28.8	0.50	1.05%	123
0013 C013	1.8	5.28	1.14	0.06	3.14%	41.59	31.8	0.49	9678	146
0014 C014	1.7	5.13	1.06	0.05	2.95%	41.41	28.8	0.48	9508	195
0015 C015	1.8	5.25	1.11	0.05	2.83%	42.28	29.7	0.45	9595	168
0016 C016	1.7	5.20	1.07	0.05	2.90%	42.69	28.0	0.48	9225	173
0017 C017	2.0	5.47	1.14	0.05	3.10%	43.85	29.8	0.49	1.02%	255
0018 C018	1.7	5.31	1.07	0.06	3.04%	42.07	28.5	0.46	9117	190
0019 C019	1.7	5.06	1.02	0.07	2.91%	39.53	27.7	0.46	9340	206
0020 C020	1.4	4.87	1.01	0.05	2.79%	38.82	24.8	0.46	9808	287
0021 C021	1.4	5.22	0.99	0.06	3.02%	40.28	28.4	0.44	8268	169
0022 C022	1.4	5.32	0.99	0.04	2.87%	38.23	27.7	0.42	1.21%	623
0023 C023	1.6	5.44	0.94	0.05	2.91%	39.78	26.7	0.45	8212	225
0024 C024	1.6	5.81	1.01	0.05	3.21%	39.21	29.3	0.44	9487	386
0025 C025	1.6	5.74	1.00	0.05	3.18%	37.58	28.4	0.45	8103	254
0026 C026	1.4	5.30	0.95	0.04	2.73%	33.36	26.0	0.42	7031	196
0027 C027	1.5	6.39	1.12	0.04	3.21%	40.02	26.2	0.50	8978	290
0028 C028	1.7	5.96	1.05	0.06	3.11%	41.17	30.6	0.46	8362	193
0029 C029	1.5	5.89	1.05	0.05	3.07%	40.82	30.8	0.47	8036	173
0030 C030	0.8	0.26	0.04	X	90	0.99	14.8	0.02	73	73
0031 C031	1.6	5.58	0.99	0.06	2.95%	38.57	29.0	0.44	1.24%	1161
0032 C032	1.5	5.42	1.01	0.05	2.86%	37.74	29.0	0.44	8226	181
0033 C033	1.5	6.10	1.25	0.06	3.15%	42.93	28.6	0.54	8966	182
0034 C034	1.6	6.05	1.72	0.06	3.51%	44.21	29.7	0.54	1.08%	312
0035 C035	1.9	5.69	1.15	0.05	3.36%	43.71	29.8	0.53	1.00%	205
0036 C036	1.7	6.36	1.27	0.05	3.42%	45.94	28.1	0.56	1.22%	706
0037 C037	1.7	6.27	1.35	0.07	3.30%	43.09	27.8	0.58	9817	180
0038 C038	1.7	5.33	1.12	0.07	3.06%	41.59	27.2	0.52	9838	294
0039 C039	1.6	5.67	1.15	0.06	3.33%	42.95	28.2	0.49	1.13%	619
0040 C040	1.6	5.94	1.28	0.05	3.45%	45.46	28.0	0.56	1.16%	435



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	0.3	195	0.27	1.51	1.4	373	9.2	0.36	0.81	X
0002 C002	5.4	371	5.75	10.27	14.5	214	41.4	2.49	35.34	0.005
0003 C003	2.3	364	7.30	16.57	10.0	391	5.5	4.54	85.30	X
0004 C004	1.0	222	4.02	10.91	7.9	359	4.2	2.91	61.05	0.004
0005 C005	2.5	393	10.67	30.03	24.1	389	9.5	8.28	162.07	X
0006 C006	5.7	461	14.13	45.64	27.2	482	10.6	11.61	214.73	X
0007 C007	4.1	479	14.79	38.20	22.3	402	11.1	10.23	224.62	0.003
0008 C008	5.2	482	12.96	48.46	21.6	487	10.8	12.16	214.18	X
0009 C009	3.3	494	13.10	26.72	25.1	449	14.4	7.82	213.10	0.005
0010 C010	2.0	471	12.63	41.79	24.6	550	11.7	10.60	212.80	X
0011 C011	4.7	453	12.37	39.62	25.4	642	10.3	11.07	193.27	0.002
0012 C012	1.4	527	13.13	38.34	18.9	526	10.1	10.35	206.63	X
0013 C013	6.4	1235	12.63	34.20	24.0	959	12.2	9.15	195.52	X
0014 C014	3.8	3314	12.51	35.02	22.6	511	10.7	9.30	184.66	0.010
0015 C015	7.7	3166	12.30	37.24	20.0	456	13.5	9.74	175.95	0.008
0016 C016	4.9	4207	12.27	36.09	23.0	470	18.0	9.64	184.02	0.007
0017 C017	5.1	4152	12.57	37.84	20.4	442	19.9	9.92	193.08	0.005
0018 C018	5.4	4714	12.10	35.57	25.1	427	21.6	9.38	193.21	0.004
0019 C019	5.0	4227	11.89	33.87	19.7	397	19.8	8.91	180.93	0.005
0020 C020	5.1	3537	12.08	33.34	16.3	329	21.1	8.68	159.70	0.005
0021 C021	4.3	5161	12.41	32.67	21.1	410	28.9	8.89	185.64	0.005
0022 C022	3.3	4165	11.96	33.68	13.8	424	19.8	8.91	169.27	0.003
0023 C023	5.0	4797	12.00	32.80	15.5	390	24.1	8.87	170.53	0.006
0024 C024	4.3	5089	12.13	33.99	15.4	394	25.0	8.91	187.01	0.004
0025 C025	3.0	5171	12.31	32.09	13.8	373	23.9	8.60	181.09	0.005
0026 C026	2.1	4486	13.50	27.59	12.5	326	21.2	7.44	160.22	0.005
0027 C027	2.1	4640	11.91	34.78	10.0	280	16.6	9.42	178.75	X
0028 C028	2.2	5832	12.11	35.51	12.8	373	24.7	9.43	185.41	0.003
0029 C029	2.0	5727	12.22	34.91	12.4	361	23.2	9.29	181.85	0.003
0030 C030	1.1	33	1.07	0.93	5.0	X	0.8	0.26	0.52	X
0031 C031	4.4	5483	11.47	33.06	12.7	391	26.4	8.84	171.89	0.002
0032 C032	3.0	6100	11.69	31.96	13.6	392	26.4	8.46	169.56	0.003
0033 C033	3.4	6586	12.95	38.19	15.4	409	28.9	10.01	184.36	0.004
0034 C034	2.8	6197	12.78	39.77	17.1	397	31.1	10.46	208.84	0.003
0035 C035	2.8	6393	12.53	38.98	14.9	384	21.2	10.40	203.13	0.003
0036 C036	2.9	5325	12.91	41.77	12.9	383	14.6	10.89	194.06	0.006
0037 C037	2.9	5233	12.57	39.18	11.8	374	16.0	10.21	190.48	0.002
0038 C038	3.4	5987	12.08	37.03	15.0	336	21.1	9.51	181.31	0.006
0039 C039	3.2	6383	11.79	35.90	17.6	379	26.0	9.52	199.35	0.006
0040 C040	2.7	5531	13.46	40.18	14.8	355	23.4	10.49	201.88	0.003



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	0.10	0.14	0.2	X	0.33	X	29.07	0.02	0.04	X
0002 C002	0.47	0.76	3.0	X	2.43	1.1	60.01	0.42	0.35	X
0003 C003	0.11	0.68	4.4	X	3.38	2.0	46.06	0.61	0.51	X
0004 C004	0.08	0.84	2.8	X	2.36	1.2	23.13	0.35	0.35	X
0005 C005	X	2.50	9.0	X	5.07	2.7	51.14	0.93	0.73	X
0006 C006	X	2.84	12.3	0.5	8.17	3.5	166.25	1.22	0.99	0.3
0007 C007	X	2.56	12.1	X	7.30	3.7	150.33	1.26	0.98	X
0008 C008	X	3.03	11.3	X	8.12	3.3	163.24	1.12	0.89	X
0009 C009	X	2.59	11.4	X	5.90	3.2	50.45	1.14	0.94	X
0010 C010	X	2.33	11.1	X	7.29	3.1	75.81	1.11	0.86	X
0011 C011	X	2.63	10.1	0.7	7.15	3.1	75.60	1.05	0.93	X
0012 C012	0.07	1.92	11.1	1.2	6.81	3.1	58.70	1.13	0.91	X
0013 C013	0.82	1.58	10.7	1.2	6.88	3.0	47.37	1.08	0.95	0.2
0014 C014	0.77	2.44	10.7	0.6	6.57	2.9	33.41	1.03	0.90	X
0015 C015	1.00	3.90	9.3	X	6.91	2.9	31.25	1.03	0.91	X
0016 C016	0.84	2.81	10.0	0.6	6.54	2.9	34.65	1.03	0.88	X
0017 C017	0.66	2.15	10.1	0.6	7.01	3.0	36.06	1.03	0.92	X
0018 C018	0.85	3.42	10.3	0.6	6.40	2.9	36.51	1.01	0.86	X
0019 C019	0.57	1.97	9.6	0.5	6.32	2.9	34.50	1.04	0.81	X
0020 C020	1.14	3.00	7.9	1.0	6.19	2.8	31.89	1.00	0.84	X
0021 C021	0.88	2.24	9.5	0.6	6.16	2.8	37.53	1.04	0.81	X
0022 C022	0.52	1.53	8.0	0.5	6.26	2.6	36.56	1.06	0.82	X
0023 C023	0.50	1.79	7.8	0.6	6.00	2.7	37.93	1.02	0.78	X
0024 C024	0.43	1.50	8.0	X	6.16	2.7	41.96	0.98	0.81	X
0025 C025	0.42	1.55	7.5	X	5.85	2.8	40.62	1.00	0.79	X
0026 C026	0.37	1.26	6.8	X	5.27	2.9	34.86	1.09	0.70	X
0027 C027	0.35	1.13	7.5	X	6.67	2.9	38.96	1.08	0.92	X
0028 C028	0.38	1.53	8.1	X	6.67	2.9	40.66	1.03	0.86	X
0029 C029	0.37	1.38	7.5	X	6.35	2.8	40.26	1.05	0.83	X
0030 C030	X	0.17	0.2	X	0.19	0.7	0.76	0.03	0.03	X
0031 C031	0.37	1.46	7.8	0.6	6.18	2.6	42.44	0.97	0.84	X
0032 C032	0.39	1.68	7.5	X	6.02	2.8	39.09	1.02	0.80	X
0033 C033	0.49	1.88	9.7	X	7.35	3.3	43.71	1.15	0.97	X
0034 C034	0.40	1.79	10.6	X	7.44	3.3	45.58	1.10	0.98	X
0035 C035	0.33	1.49	10.2	X	7.39	3.2	46.15	1.12	0.92	X
0036 C036	0.30	1.53	11.0	X	7.82	3.2	45.90	1.13	1.02	X
0037 C037	0.27	1.44	10.5	X	7.38	3.1	42.76	1.11	1.06	X
0038 C038	0.41	1.77	9.7	0.5	6.65	3.0	42.66	1.05	0.89	X
0039 C039	0.39	1.86	9.6	0.6	6.84	3.0	46.54	1.01	0.89	X
0040 C040	0.43	1.96	10.4	X	7.73	3.4	45.43	1.20	1.03	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0001 C001	0.24	56	0.04	0.02	1.07	2	X	1.35	0.10	34
0002 C002	5.14	1047	0.55	0.15	2.19	20	0.7	8.99	0.91	40
0003 C003	10.46	1242	0.36	0.27	2.71	28	1.5	15.38	1.74	21
0004 C004	6.47	763	0.27	0.18	2.07	20	1.3	10.47	1.18	14
0005 C005	16.24	2291	0.71	0.42	5.10	51	2.8	23.37	2.72	39
0006 C006	21.17	2984	0.92	0.54	7.18	72	3.5	30.99	3.72	34
0007 C007	21.81	2945	0.94	0.55	6.48	61	3.4	31.15	3.79	27
0008 C008	19.91	2856	0.85	0.48	5.79	63	3.2	27.87	3.28	27
0009 C009	19.34	2841	0.82	0.50	5.53	58	3.3	28.09	3.30	30
0010 C010	19.06	2857	0.84	0.46	5.05	54	3.3	26.87	3.09	32
0011 C011	18.82	2634	0.72	0.46	4.99	48	3.1	28.06	3.17	28
0012 C012	19.02	2926	0.79	0.47	5.05	54	3.2	28.49	3.27	26
0013 C013	17.97	2717	1.36	0.47	5.31	57	3.1	28.86	3.31	20
0014 C014	17.07	2736	1.14	0.47	5.27	59	3.2	27.71	3.05	18
0015 C015	17.97	2369	1.19	0.49	5.12	49	2.8	27.64	3.20	18
0016 C016	17.69	2501	1.16	0.47	5.55	57	3.2	27.28	3.18	19
0017 C017	18.31	2573	1.14	0.49	5.71	56	3.0	29.62	3.22	22
0018 C018	17.62	2582	1.37	0.46	5.98	61	3.3	27.10	3.07	97
0019 C019	18.32	2327	1.05	0.44	6.00	52	3.0	26.51	3.02	72
0020 C020	18.96	2017	1.08	0.45	5.20	39	2.5	26.91	3.00	25
0021 C021	16.64	2492	1.18	0.42	5.32	54	3.0	24.81	2.87	107
0022 C022	17.67	2190	1.13	0.43	4.71	39	3.0	25.17	2.76	19
0023 C023	17.12	2132	1.04	0.43	5.04	49	2.8	24.00	2.84	51
0024 C024	16.45	2231	1.08	0.42	4.50	49	2.7	25.81	2.84	85
0025 C025	15.94	2058	1.02	0.41	4.21	39	2.4	25.34	2.97	81
0026 C026	14.62	1935	0.95	0.42	4.12	35	2.1	23.49	2.78	57
0027 C027	19.16	2007	1.05	0.49	4.71	30	2.5	27.96	3.33	13
0028 C028	18.02	2133	1.09	0.45	4.77	38	2.5	27.04	3.05	68
0029 C029	17.82	2109	1.04	0.45	4.79	37	2.5	26.52	2.92	66
0030 C030	0.72	305	X	0.02	0.16	2	0.2	0.62	0.11	4
0031 C031	16.78	2103	0.97	0.44	4.56	39	2.5	26.09	2.81	123
0032 C032	18.03	2084	1.02	0.42	5.01	38	2.4	24.79	2.88	92
0033 C033	18.98	2463	1.17	0.55	5.67	44	2.8	31.59	3.60	85
0034 C034	19.40	2635	1.26	0.53	5.66	50	2.8	31.64	3.59	104
0035 C035	19.24	2483	1.20	0.49	5.52	52	2.9	30.18	3.41	64
0036 C036	20.16	2544	1.17	0.55	5.64	49	2.7	32.57	3.75	31
0037 C037	19.93	2636	1.10	0.56	5.62	46	2.8	34.47	3.81	63
0038 C038	18.78	2299	1.28	0.47	5.85	46	2.7	28.90	3.35	87
0039 C039	17.95	2473	1.39	0.50	5.61	54	2.9	29.31	3.27	131
0040 C040	21.45	2540	1.35	0.55	5.83	45	2.9	33.42	3.61	57



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
SAMPLE NUMBERS	

0001 C001	2.7
0002 C002	58.8
0003 C003	113.1
0004 C004	80.3
0005 C005	162.0
0006 C006	200.7
0007 C007	202.8
0008 C008	192.4
0009 C009	188.1
0010 C010	179.1
0011 C011	184.7
0012 C012	205.2
0013 C013	177.3
0014 C014	173.5
0015 C015	174.2
0016 C016	171.1
0017 C017	187.7
0018 C018	177.8
0019 C019	166.2
0020 C020	158.8
0021 C021	176.8
0022 C022	180.1
0023 C023	181.7
0024 C024	203.7
0025 C025	198.4
0026 C026	175.0
0027 C027	200.4
0028 C028	208.4
0029 C029	203.3
0030 C030	7.8
0031 C031	188.0
0032 C032	173.6
0033 C033	196.2
0034 C034	202.2
0035 C035	192.5
0036 C036	185.5
0037 C037	210.0
0038 C038	180.1
0039 C039	191.4
0040 C040	199.8



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	X	0.14	7.55%	11.8	540.3	2.52	0.51	2623	0.20	90.96
0042 C042	X	0.11	7.50%	7.4	577.2	2.62	0.47	4043	0.18	87.97
0043 C043	X	0.12	7.67%	10.1	542.8	2.69	0.48	4725	0.07	92.61
0044 C044	X	0.10	7.80%	11.0	565.9	2.87	0.52	5396	0.19	98.81
0045 C045	X	0.11	7.70%	16.3	607.3	2.65	0.52	3397	0.26	90.98
0046 C046	X	0.08	7.29%	7.9	602.8	2.64	0.53	8944	0.15	98.60
0047 C047	X	0.10	7.82%	9.9	865.3	2.87	0.59	6363	0.11	100.30
0048 C048	X	0.09	7.39%	8.0	637.8	2.59	0.48	5159	0.13	86.22
0049 C049	X	0.11	7.90%	10.3	568.5	2.73	0.57	3419	0.18	98.79
0050 C050	X	0.09	7.21%	9.4	646.3	2.56	0.48	6144	0.16	87.08
0051 C051	X	0.09	7.54%	10.5	653.3	2.58	0.50	4298	0.18	90.13
0052 C052	X	0.08	7.97%	8.8	517.8	2.63	0.56	4007	0.06	99.36
0053 C053	X	0.09	7.26%	12.3	619.5	2.56	0.47	5110	0.10	91.35
0054 C054	X	0.11	7.52%	12.4	650.8	2.61	0.55	3661	0.15	89.61
0055 C055	X	0.10	6.99%	14.2	731.7	2.34	0.51	8833	0.13	85.42
0056 C056	X	0.09	6.80%	11.0	664.5	2.39	0.50	2.25%	0.17	83.30
0057 C057	X	0.07	7.01%	13.6	626.1	2.45	0.52	4695	0.20	89.55
0058 C058	X	0.07	7.34%	9.2	539.2	2.65	0.63	3359	0.12	95.17
0059 C059	X	X	7.49%	4.6	399.2	2.36	0.94	1.46%	X	117.88
0060 C060	X	0.05	7.07%	5.6	408.8	2.23	0.85	1.16%	X	100.85
0061 C061	0.475	0.66	7.93%	221.3	312.0	2.93	4.38	2.88%	0.22	38.09
0062 C062	X	0.07	7.00%	9.7	492.2	2.67	0.62	9702	0.03	98.35
0063 C063	X	0.09	7.18%	10.6	568.4	2.74	0.51	6137	0.11	97.48
0064 C064	0.007	0.07	6.82%	9.9	594.5	2.69	0.52	4389	0.07	99.69
0065 C065	X	0.09	7.20%	16.4	718.4	2.62	0.55	2858	0.15	90.04
0066 C066	X	0.08	7.72%	20.0	642.0	2.66	0.51	4003	0.12	89.47
0067 C067	X	0.08	7.37%	12.3	599.7	2.60	0.52	4206	0.11	91.11
0068 C068	X	0.08	7.04%	24.0	655.1	2.47	0.53	7858	0.08	88.30
0069 C069	X	0.08	7.26%	14.1	678.6	2.60	0.55	4299	0.14	89.15
0070 C070	X	0.08	7.67%	14.3	645.3	2.84	0.59	4188	0.19	97.97
0071 C071	X	0.07	7.15%	17.7	619.6	2.65	0.61	9679	0.20	93.59
0072 C072	X	0.09	7.44%	16.4	668.9	2.97	0.60	4434	0.16	103.83
0073 C073	X	0.08	7.34%	15.2	888.0	2.64	0.58	1.36%	0.10	96.49
0074 C074	4.966	2.89	5.26%	801.4	245.3	0.76	3.79	5.23%	2.50	29.73
0075 C075	0.005	0.09	7.93%	16.8	622.6	2.94	0.57	4724	0.13	102.20
0076 C076	0.005	0.10	7.00%	24.8	611.4	2.54	0.54	4388	0.12	88.14
0077 C077	0.010	0.10	7.19%	19.1	480.4	2.66	0.62	1.14%	0.19	94.21
0078 C078	X	0.10	7.17%	22.5	433.7	2.81	0.64	4349	0.26	95.20
0079 C079	X	0.10	7.30%	15.0	404.2	2.73	0.77	4307	0.11	105.85
0080 C080	X	0.12	7.20%	22.6	389.8	2.88	0.60	3898	0.21	96.54



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	7.7	33	11.27	22.0	5.32	3.10	1.14	2.32	16.52	5.79
0042 C042	6.9	31	11.27	18.9	5.44	3.07	1.15	2.31	16.42	5.90
0043 C043	7.4	27	10.70	16.2	5.69	3.28	1.40	2.34	16.36	6.40
0044 C044	7.9	34	11.21	21.0	6.19	3.59	1.36	2.38	17.21	6.77
0045 C045	9.8	38	11.01	21.2	5.61	3.13	1.23	2.58	17.10	6.08
0046 C046	8.2	34	10.56	18.5	5.47	3.00	1.16	2.36	16.09	5.86
0047 C047	8.9	32	11.10	20.3	5.81	3.36	1.33	2.48	17.38	6.45
0048 C048	8.2	34	10.32	17.2	5.19	2.98	1.17	2.46	16.02	5.72
0049 C049	8.6	30	10.51	19.5	6.44	3.71	1.37	2.48	17.06	6.92
0050 C050	8.4	35	10.08	19.8	5.25	3.07	1.19	2.44	16.18	5.78
0051 C051	8.9	35	10.44	23.0	5.38	3.08	1.17	2.40	16.84	6.23
0052 C052	6.9	25	10.09	21.7	6.15	3.63	1.41	2.43	17.06	6.95
0053 C053	8.2	33	9.78	24.6	5.18	2.92	1.20	2.52	15.89	5.83
0054 C054	9.1	34	10.14	22.2	5.85	3.34	1.22	2.66	16.52	6.08
0055 C055	9.0	32	9.65	17.0	5.17	3.13	1.18	2.69	15.54	5.72
0056 C056	8.2	33	9.45	17.4	4.85	2.91	1.07	2.45	15.14	5.48
0057 C057	9.3	32	9.54	17.3	5.19	3.14	1.20	2.43	15.68	5.82
0058 C058	7.6	28	9.92	19.1	5.30	3.15	1.09	2.17	15.71	5.90
0059 C059	3.9	12	7.62	17.7	6.01	3.44	1.27	1.89	14.96	6.63
0060 C060	4.0	14	7.57	15.2	5.34	3.24	1.10	1.85	14.39	6.00
0061 C061	20.9	160	10.25	245.9	2.09	1.15	0.82	3.96	19.02	2.60
0062 C062	5.6	22	8.99	12.7	5.48	3.22	1.12	1.86	15.52	5.83
0063 C063	7.2	28	9.54	16.1	6.24	3.91	1.10	2.23	17.10	6.66
0064 C064	7.7	30	9.57	14.7	6.44	3.92	1.15	2.37	17.17	6.80
0065 C065	10.5	38	10.26	19.5	4.86	2.96	1.12	2.90	16.60	6.31
0066 C066	8.9	31	10.69	22.7	5.31	3.15	1.27	2.89	17.28	5.93
0067 C067	7.6	30	10.22	16.5	5.05	3.08	1.18	2.46	16.05	5.70
0068 C068	9.6	37	10.21	20.2	5.06	3.01	1.16	3.16	15.74	5.50
0069 C069	9.1	35	10.39	21.8	5.17	3.15	1.19	2.71	16.18	5.79
0070 C070	9.0	34	11.10	23.5	5.68	3.51	1.22	2.72	17.38	6.30
0071 C071	9.3	32	10.57	17.4	5.60	3.38	1.21	2.69	16.56	6.05
0072 C072	8.8	31	11.14	22.6	6.50	4.07	1.32	2.65	17.85	7.07
0073 C073	7.3	29	10.43	24.0	5.83	3.63	1.24	2.72	16.35	6.53
0074 C074	54.7	1320	2.59	718.2	2.51	1.49	0.69	5.80	12.39	2.74
0075 C075	8.3	32	11.23	33.2	6.83	4.12	1.39	3.08	18.73	7.05
0076 C076	8.1	30	10.06	21.1	5.19	3.11	1.11	3.05	15.67	5.84
0077 C077	7.9	26	10.01	21.2	5.90	3.51	1.29	3.01	16.18	6.38
0078 C078	8.0	26	10.19	17.3	5.87	3.57	1.25	2.96	16.22	6.47
0079 C079	6.8	20	9.85	12.7	6.46	4.05	1.30	2.50	16.72	7.07
0080 C080	9.3	26	10.20	15.5	5.55	3.41	1.23	3.00	16.37	6.33



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	1.6	5.62	1.13	0.08	3.38%	43.86	29.0	0.51	9315	202
0042 C042	1.7	5.84	1.13	0.06	3.48%	41.40	29.7	0.49	9120	239
0043 C043	1.7	6.38	1.19	0.05	3.51%	44.55	30.0	0.53	1.03%	376
0044 C044	1.7	6.63	1.29	0.06	3.53%	47.67	29.5	0.55	1.03%	437
0045 C045	1.6	6.29	1.14	0.05	3.59%	43.63	31.2	0.50	9334	249
0046 C046	1.5	5.69	1.11	0.05	3.44%	43.16	29.1	0.49	8673	441
0047 C047	1.7	6.00	1.22	0.06	3.57%	46.50	29.1	0.54	1.06%	486
0048 C048	1.6	5.91	1.08	0.05	3.54%	41.48	28.0	0.49	8543	317
0049 C049	1.6	6.40	1.33	0.06	3.60%	45.70	28.1	0.60	9137	234
0050 C050	1.5	5.99	1.12	0.05	3.53%	41.21	27.0	0.50	8323	336
0051 C051	1.5	6.09	1.12	0.05	3.61%	43.13	26.5	0.50	8421	260
0052 C052	1.6	6.24	1.29	0.05	3.55%	46.31	27.1	0.57	9988	322
0053 C053	1.7	5.71	1.08	0.05	3.41%	43.64	25.6	0.47	8312	298
0054 C054	1.6	6.43	1.20	0.06	3.60%	43.20	26.6	0.54	8242	232
0055 C055	1.6	6.38	1.05	0.05	3.68%	40.85	24.9	0.45	7790	373
0056 C056	1.5	6.02	1.00	0.05	3.52%	39.75	23.9	0.46	7615	577
0057 C057	1.6	6.42	1.08	0.05	3.44%	42.54	23.6	0.49	7615	264
0058 C058	1.7	6.39	1.09	0.05	3.38%	45.38	23.9	0.52	8571	206
0059 C059	1.5	5.37	1.20	0.04	3.11%	53.07	23.2	0.52	1.14%	665
0060 C060	1.5	5.28	1.09	0.04	2.94%	46.52	21.8	0.51	1.08%	670
0061 C061	1.6	2.35	0.40	0.19	1.86%	19.23	27.3	0.16	1.56%	556
0062 C062	1.6	5.98	1.08	0.04	3.17%	45.98	21.4	0.51	8058	305
0063 C063	1.6	6.44	1.31	0.06	3.36%	45.30	22.2	0.56	7899	268
0064 C064	1.6	6.04	1.29	0.05	3.37%	47.61	23.5	0.62	7738	216
0065 C065	1.5	5.83	0.99	0.05	3.85%	42.58	24.1	0.47	7772	207
0066 C066	1.6	6.16	1.10	0.06	3.88%	42.49	24.2	0.47	8465	257
0067 C067	1.6	5.97	1.06	0.05	3.68%	43.66	23.2	0.49	7945	252
0068 C068	1.6	6.17	1.04	0.05	3.77%	42.09	22.9	0.47	7406	316
0069 C069	1.6	6.41	1.05	0.06	3.87%	42.68	24.1	0.48	7787	275
0070 C070	1.6	6.57	1.16	0.05	4.00%	46.25	24.8	0.53	8476	271
0071 C071	1.5	6.34	1.18	0.06	3.74%	44.54	23.1	0.53	7824	340
0072 C072	1.8	7.46	1.34	0.05	3.97%	49.57	24.0	0.62	8171	266
0073 C073	1.6	6.60	1.23	0.05	3.75%	45.39	23.9	0.54	8423	489
0074 C074	0.9	1.45	0.50	0.24	7448	14.71	25.1	0.20	2.44%	1013
0075 C075	1.6	7.37	1.36	0.07	3.98%	47.95	26.2	0.61	9305	298
0076 C076	1.6	6.15	1.11	0.04	3.44%	42.06	22.1	0.47	7672	248
0077 C077	1.5	6.15	1.19	0.05	3.25%	44.36	22.2	0.54	8603	371
0078 C078	1.6	6.36	1.19	0.06	3.10%	45.32	21.5	0.56	8493	242
0079 C079	1.5	6.23	1.36	0.06	3.00%	49.79	21.1	0.64	9138	212
0080 C080	1.5	5.88	1.18	0.06	2.86%	46.48	21.4	0.53	8565	216



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	2.3	6387	12.13	37.27	16.2	355	23.4	9.97	201.61	X
0042 C042	2.4	6325	12.36	37.26	14.9	428	22.8	9.72	207.64	0.002
0043 C043	2.5	6094	12.51	39.04	14.6	353	21.2	10.15	204.45	0.004
0044 C044	2.7	7152	13.27	41.08	16.5	414	29.3	10.70	210.46	X
0045 C045	3.2	6936	12.73	37.41	20.1	430	28.4	9.85	208.43	0.003
0046 C046	3.3	7033	12.34	37.24	16.1	423	28.7	9.78	199.50	X
0047 C047	2.5	7311	12.90	42.07	15.8	457	27.8	10.95	210.82	X
0048 C048	2.6	7681	11.64	35.56	14.5	429	25.9	9.38	202.64	X
0049 C049	2.2	7409	13.06	41.98	14.6	404	38.4	10.73	207.84	X
0050 C050	2.6	7599	11.65	36.05	15.4	433	31.4	9.33	198.17	X
0051 C051	2.4	8466	12.03	36.81	15.4	436	30.1	9.78	205.84	X
0052 C052	2.0	7039	12.95	40.81	11.8	415	23.1	10.76	203.12	X
0053 C053	2.7	8546	11.30	36.81	15.1	470	25.8	9.88	194.39	0.002
0054 C054	2.7	7891	12.07	37.38	16.4	461	32.5	9.79	202.37	0.003
0055 C055	2.4	8277	11.59	35.25	16.6	504	33.3	9.25	198.70	0.003
0056 C056	2.5	8309	11.59	33.77	15.5	448	36.4	9.00	194.64	0.002
0057 C057	2.9	9850	12.87	37.23	16.4	427	32.8	9.83	194.91	X
0058 C058	2.6	9627	13.51	37.73	13.8	425	28.2	10.05	196.50	X
0059 C059	2.3	4884	15.80	46.13	7.7	343	16.0	12.55	172.97	X
0060 C060	1.8	5476	14.47	38.26	7.0	327	12.9	10.64	164.49	0.004
0061 C061	12.9	1.83%	5.66	16.25	288.5	492	75.4	4.20	199.57	0.003
0062 C062	2.1	8443	13.75	39.01	10.3	392	16.3	10.45	181.14	X
0063 C063	2.6	9655	13.93	40.64	14.4	386	30.3	10.68	191.86	X
0064 C064	2.7	7964	14.09	41.00	14.5	412	24.3	10.81	190.07	X
0065 C065	3.6	8424	12.47	36.23	20.7	463	38.0	9.57	211.14	0.002
0066 C066	2.8	7939	12.53	36.88	16.2	596	36.3	9.69	215.87	0.002
0067 C067	2.9	8537	12.41	36.67	15.0	478	32.3	9.87	208.63	X
0068 C068	3.0	8246	12.34	35.88	18.7	528	40.7	9.44	211.46	X
0069 C069	2.8	8117	11.86	37.32	18.0	499	33.7	9.78	214.54	X
0070 C070	3.1	8186	13.92	40.78	17.7	442	34.8	10.73	224.52	0.003
0071 C071	3.0	8194	12.88	37.50	19.5	411	35.3	10.16	209.53	X
0072 C072	3.4	8543	14.67	43.20	20.3	472	38.5	11.27	220.05	0.002
0073 C073	2.5	8733	14.07	39.56	15.0	528	31.5	10.54	212.73	0.004
0074 C074	9.6	7508	2.94	12.92	263.3	277	930.1	3.20	36.76	X
0075 C075	3.3	9249	14.17	43.21	16.4	589	31.1	11.15	229.24	X
0076 C076	3.2	9793	12.04	36.59	17.2	500	33.0	9.56	201.14	0.002
0077 C077	3.4	9833	12.65	38.66	15.3	566	37.3	10.14	195.41	X
0078 C078	3.7	1.13%	12.72	39.14	17.3	478	43.2	10.37	188.49	0.002
0079 C079	3.1	8544	14.63	43.29	14.0	381	31.7	11.50	183.12	X
0080 C080	3.7	1.29%	12.69	39.54	20.0	469	40.0	10.55	180.47	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	0.40	1.97	10.1	0.6	6.88	3.2	46.56	1.10	0.89	X
0042 C042	0.34	1.73	9.9	X	6.87	3.1	46.96	1.06	0.89	X
0043 C043	0.37	1.77	9.5	X	7.18	3.1	46.40	1.06	0.96	X
0044 C044	0.36	1.99	9.7	X	7.70	3.3	50.32	1.16	1.03	X
0045 C045	0.45	2.38	10.5	X	6.86	3.2	47.72	1.05	0.91	X
0046 C046	0.33	1.69	9.7	X	6.87	3.0	51.22	1.07	0.90	X
0047 C047	0.34	1.87	10.6	X	7.86	3.1	61.13	1.13	0.98	X
0048 C048	0.35	1.62	9.8	X	6.64	2.9	52.20	1.00	0.89	X
0049 C049	0.40	2.01	10.0	0.6	7.89	3.3	50.49	1.13	1.03	X
0050 C050	0.43	1.77	9.3	0.6	6.87	2.9	51.61	0.98	0.96	X
0051 C051	0.51	1.82	10.2	X	7.09	3.2	52.92	1.02	0.90	X
0052 C052	0.46	1.52	10.1	X	7.84	3.3	48.64	1.13	1.02	X
0053 C053	0.68	1.82	9.7	X	6.85	2.8	52.00	0.97	0.86	X
0054 C054	0.87	1.93	10.3	X	6.98	3.0	50.34	1.06	0.94	X
0055 C055	0.96	1.96	8.9	X	6.66	2.8	53.04	1.02	0.86	X
0056 C056	0.76	1.71	9.0	X	6.41	2.8	59.49	1.01	0.82	X
0057 C057	0.79	1.89	8.7	X	6.77	2.9	57.44	1.10	0.86	X
0058 C058	0.59	1.53	8.4	X	6.89	3.1	54.21	1.24	0.86	X
0059 C059	0.24	0.70	6.0	X	8.23	3.1	44.34	1.57	1.02	X
0060 C060	0.28	0.83	6.0	X	7.12	2.9	43.40	1.45	0.92	X
0061 C061	0.20	5.31	9.9	X	3.16	13.9	192.03	0.86	0.36	0.2
0062 C062	0.42	1.21	7.2	X	7.20	3.0	52.66	1.28	0.88	X
0063 C063	0.64	1.54	7.6	X	7.82	3.5	56.65	1.22	1.04	X
0064 C064	0.77	1.51	8.1	X	7.86	3.3	49.98	1.11	1.12	X
0065 C065	1.26	2.02	9.7	X	6.57	2.9	53.42	1.05	0.81	X
0066 C066	1.16	2.09	11.7	0.6	6.86	3.1	54.76	1.08	0.88	X
0067 C067	0.79	1.48	9.0	X	6.62	2.9	54.18	1.10	0.84	X
0068 C068	1.60	2.48	9.3	X	6.63	3.0	54.53	1.03	0.83	X
0069 C069	1.04	1.74	9.7	X	6.72	2.8	53.69	1.04	0.86	X
0070 C070	0.90	1.78	9.8	X	7.64	3.2	56.01	1.17	0.93	X
0071 C071	1.01	1.88	8.9	0.6	7.03	3.1	57.20	1.09	0.94	X
0072 C072	0.99	1.85	9.0	X	8.12	3.5	55.69	1.25	1.07	X
0073 C073	0.98	1.66	9.1	X	7.52	3.1	61.61	1.19	0.98	X
0074 C074	0.92	34.19	20.1	0.8	2.78	3.2	87.74	0.52	0.41	0.9
0075 C075	1.23	1.83	10.8	0.5	8.78	3.6	59.35	1.18	1.09	X
0076 C076	1.73	2.29	8.9	X	6.76	2.9	54.75	1.02	0.85	X
0077 C077	1.59	2.00	9.4	X	7.39	3.0	57.45	1.07	0.96	X
0078 C078	1.64	2.39	9.5	X	7.41	3.2	54.74	1.11	0.97	X
0079 C079	1.21	1.72	8.1	0.5	8.26	3.7	47.59	1.30	1.09	X
0080 C080	1.62	2.44	8.9	0.5	7.28	3.2	54.64	1.07	0.93	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0041 C041	17.92	2597	1.57	0.49	5.27	54	2.9	28.81	3.38	72
0042 C042	18.32	2542	1.35	0.47	5.21	50	2.8	28.79	3.17	78
0043 C043	18.75	2504	1.28	0.52	5.06	43	2.7	30.97	3.45	28
0044 C044	20.28	2728	1.32	0.56	5.97	45	3.0	34.12	3.71	85
0045 C045	18.07	3004	1.38	0.49	5.61	55	3.0	29.85	3.32	102
0046 C046	19.36	2506	1.22	0.47	5.69	46	2.8	28.49	3.25	80
0047 C047	19.55	2711	1.17	0.52	5.88	44	2.9	30.67	3.63	70
0048 C048	17.08	2640	1.15	0.45	5.09	43	2.7	28.46	3.18	79
0049 C049	18.59	2652	1.28	0.58	5.38	42	2.6	33.37	3.88	88
0050 C050	16.37	2590	1.14	0.46	5.07	46	2.6	27.89	3.39	82
0051 C051	17.53	2653	1.22	0.48	5.07	49	2.7	29.61	3.34	94
0052 C052	19.87	2529	1.13	0.56	5.32	42	2.7	33.27	3.81	41
0053 C053	17.19	2496	1.20	0.47	5.00	49	2.6	27.84	3.09	58
0054 C054	17.76	2599	1.43	0.53	5.20	47	2.6	29.95	3.60	98
0055 C055	16.43	2625	1.45	0.46	4.78	46	2.6	26.90	3.02	77
0056 C056	16.23	2628	1.28	0.44	4.81	47	2.6	26.05	2.92	103
0057 C057	17.24	2624	1.35	0.46	5.18	44	2.9	27.94	3.27	107
0058 C058	21.80	2423	1.23	0.48	6.15	39	3.4	28.03	3.39	58
0059 C059	31.29	1687	0.85	0.52	8.02	21	2.9	31.55	3.51	10
0060 C060	28.38	1711	0.81	0.48	6.84	22	3.2	29.28	3.36	10
0061 C061	8.04	3122	1.75	0.17	2.38	73	30.1	10.48	1.04	113
0062 C062	22.83	2105	1.03	0.47	5.77	31	3.1	28.24	3.20	15
0063 C063	19.05	2325	1.21	0.57	5.27	38	3.0	33.01	3.79	55
0064 C064	17.55	2330	1.21	0.57	5.05	41	2.7	32.49	3.95	45
0065 C065	17.22	2767	1.39	0.44	5.27	54	2.8	25.96	3.00	91
0066 C066	17.28	3166	1.22	0.47	4.85	58	2.9	27.90	3.13	90
0067 C067	18.51	2658	1.12	0.46	4.93	45	2.8	26.36	3.16	78
0068 C068	16.90	2699	1.29	0.46	4.75	48	2.7	26.60	3.10	90
0069 C069	17.16	2861	1.14	0.46	4.84	50	2.7	27.10	3.18	88
0070 C070	19.48	2808	1.25	0.51	5.41	49	2.9	30.06	3.52	81
0071 C071	17.92	2582	1.31	0.50	5.01	44	2.8	29.74	3.46	98
0072 C072	19.44	2687	1.48	0.58	5.69	46	2.8	33.86	3.98	97
0073 C073	18.44	2707	1.12	0.52	5.00	47	2.9	31.11	3.52	75
0074 C074	3.51	2895	0.37	0.21	0.96	133	41.5	12.73	1.42	842
0075 C075	18.69	3055	1.11	0.59	5.04	59	2.8	35.46	3.98	77
0076 C076	17.14	2739	1.12	0.46	4.62	50	2.8	26.94	3.16	69
0077 C077	17.64	2638	1.17	0.50	4.85	50	2.8	31.10	3.52	105
0078 C078	18.01	2624	1.45	0.53	5.06	44	3.1	30.82	3.72	147
0079 C079	22.61	2116	1.18	0.61	5.89	32	2.6	33.76	4.03	72
0080 C080	17.96	2499	1.56	0.51	5.16	44	2.9	29.78	3.51	122



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0041 C041	187.4
0042 C042	201.8
0043 C043	214.4
0044 C044	225.6
0045 C045	211.7
0046 C046	194.3
0047 C047	204.0
0048 C048	206.2
0049 C049	220.7
0050 C050	206.5
0051 C051	208.8
0052 C052	212.4
0053 C053	198.3
0054 C054	209.9
0055 C055	214.0
0056 C056	206.1
0057 C057	217.6
0058 C058	205.8
0059 C059	162.7
0060 C060	160.9
0061 C061	75.0
0062 C062	189.4
0063 C063	208.9
0064 C064	198.7
0065 C065	198.8
0066 C066	208.0
0067 C067	203.3
0068 C068	208.8
0069 C069	218.9
0070 C070	221.4
0071 C071	220.0
0072 C072	244.1
0073 C073	227.1
0074 C074	52.1
0075 C075	249.1
0076 C076	205.7
0077 C077	209.5
0078 C078	210.9
0079 C079	198.3
0080 C080	199.9



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	X	0.11	6.80%	14.0	345.3	2.70	0.62	3.50%	0.20	95.14
0082 C082	X	0.09	6.99%	11.7	360.8	2.50	0.58	1.43%	0.18	92.48
0083 C083	X	0.09	7.40%	17.7	373.0	2.64	0.62	3965	0.20	96.25
0084 C084	X	0.14	7.14%	58.6	372.3	2.57	0.62	3412	0.19	96.19
0085 C085	X	0.15	7.03%	14.4	461.6	2.57	0.64	3042	0.20	94.41
0086 C086	X	0.10	8.09%	14.9	436.7	2.76	0.66	7276	0.18	104.82
0087 C087	X	0.09	7.77%	15.3	513.5	2.69	0.59	2524	0.30	93.10
0088 C088	X	0.10	7.42%	11.3	632.9	2.72	0.55	4934	0.18	91.24
0089 C089	X	0.08	7.73%	10.5	428.2	2.70	0.83	4825	X	113.26
0090 C090	X	0.10	7.17%	16.1	491.6	2.79	0.67	3531	0.31	93.38
0091 C091	X	0.10	7.04%	15.3	462.4	2.74	0.64	3465	0.39	86.60
0092 C092	0.473	0.63	7.85%	218.2	303.6	2.83	4.40	2.89%	0.19	38.05
0093 C093	X	0.09	7.11%	11.5	534.5	2.67	0.52	1.01%	0.17	85.82
0094 C094	X	0.08	7.16%	10.6	485.0	2.87	0.53	1.15%	0.05	99.30
0095 C095	X	0.14	6.80%	27.3	643.1	2.66	0.52	4192	0.15	98.41
0096 C096	X	0.10	6.93%	20.8	651.3	2.55	0.59	1.05%	0.38	94.35
0097 C097	X	0.11	7.17%	18.1	629.0	2.80	0.64	4691	0.40	110.68
0098 C098	X	0.10	6.83%	24.9	701.1	2.69	0.55	5203	0.32	85.68
0099 C099	X	0.09	7.30%	17.4	439.6	2.89	0.72	3547	0.13	107.92
0100 C100	X	0.08	6.94%	63.8	464.4	2.90	0.77	3044	0.15	100.92
0101 C101	X	0.10	7.51%	13.8	578.4	2.81	0.83	2380	0.24	115.68
0102 C102	X	0.10	7.39%	31.2	528.3	2.69	0.60	3991	0.15	94.41
0103 C103	X	0.13	7.38%	29.0	486.6	2.56	0.62	3751	0.16	97.42
0104 C104	X	0.16	7.27%	17.4	540.3	2.63	0.65	4118	0.56	97.20
0105 C105	X	0.15	7.12%	14.2	531.2	2.50	0.65	6718	0.36	92.30
0106 C106	X	0.13	6.47%	64.0	458.2	2.53	0.67	3654	0.14	96.02
0107 C107	X	0.11	7.39%	39.2	450.8	2.94	0.70	6544	0.15	106.55
0108 C108	X	0.11	7.05%	11.9	574.4	2.72	0.61	2780	0.15	105.56
0109 C109	X	0.09	6.54%	16.5	475.6	2.78	0.77	2.79%	0.19	100.49
0110 C110	X	0.10	6.77%	13.2	638.1	2.72	0.45	2930	0.16	93.66
0111 C111	X	0.09	6.64%	18.7	703.0	2.74	0.43	2028	0.12	88.57
0112 C112	X	0.10	7.51%	13.0	500.4	4.27	0.68	2263	0.04	105.73
0113 C113	X	0.13	6.53%	73.5	556.9	3.70	0.57	6183	X	100.26
0114 C114	X	0.10	6.84%	16.3	1007.9	5.27	0.55	1925	0.02	133.36
0115 C115	X	0.10	8.74%	11.1	372.6	7.11	0.42	1100	X	279.59
0116 C116	X	0.06	6.22%	4.7	660.3	3.56	0.34	1903	X	215.29
0117 C117	X	X	6.25%	3.0	758.6	1.91	0.29	2711	X	230.64
0118 C118	X	X	7.06%	2.3	765.6	3.16	0.33	918	X	246.06
0119 C119	X	X	6.01%	1.8	417.0	1.77	0.27	3626	X	232.99
0120 C120	X	X	5.84%	1.7	319.3	1.71	0.27	3585	X	220.64



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	7.1	20	9.36	12.6	6.53	4.00	1.35	2.52	16.12	6.73
0082 C082	7.0	22	9.36	13.2	6.03	3.72	1.20	2.35	15.87	6.73
0083 C083	6.7	20	9.82	12.9	6.06	3.79	1.25	2.28	16.49	6.65
0084 C084	7.0	21	9.37	12.7	5.65	3.47	1.23	2.81	15.51	6.40
0085 C085	9.6	25	9.53	17.5	7.09	3.41	1.18	2.73	16.27	6.08
0086 C086	7.5	19	10.42	12.5	6.71	4.03	1.42	2.24	17.70	7.26
0087 C087	7.9	22	10.45	17.7	5.72	3.47	1.23	2.41	17.48	6.28
0088 C088	7.2	24	9.71	15.6	5.51	3.33	1.13	2.45	16.28	6.03
0089 C089	4.4	14	8.79	8.8	6.46	3.84	1.40	2.01	16.53	6.96
0090 C090	5.8	20	9.28	11.2	6.00	3.67	1.16	2.20	16.86	6.30
0091 C091	5.7	19	9.16	11.9	5.64	3.50	1.05	2.19	16.05	5.76
0092 C092	20.7	126	9.96	242.4	2.07	1.10	0.79	3.88	18.71	2.62
0093 C093	5.7	23	9.65	12.4	5.67	3.48	1.06	2.18	16.00	6.03
0094 C094	5.3	21	9.54	9.9	6.66	4.06	1.19	2.31	17.05	6.98
0095 C095	7.2	28	9.02	12.8	6.26	3.78	1.06	3.07	16.68	6.58
0096 C096	6.9	28	8.89	15.4	5.45	3.23	1.13	2.83	15.72	6.08
0097 C097	7.0	30	9.01	16.8	7.95	5.09	1.20	2.96	18.09	8.24
0098 C098	7.7	30	9.05	19.1	5.38	3.24	1.03	3.17	15.89	5.87
0099 C099	6.0	21	8.67	12.8	7.40	4.53	1.15	2.71	18.43	7.54
0100 C100	5.7	22	7.95	13.9	5.88	3.63	1.05	2.81	15.73	6.25
0101 C101	6.4	23	8.58	13.0	6.32	3.74	1.20	2.66	16.93	6.94
0102 C102	6.1	23	9.00	13.3	5.78	3.44	1.20	2.65	16.66	6.22
0103 C103	6.4	23	8.38	12.9	6.04	3.57	1.23	2.73	16.52	6.41
0104 C104	6.6	23	8.61	12.8	5.56	3.41	1.21	2.60	15.83	6.17
0105 C105	6.7	28	8.43	12.5	5.35	3.22	1.15	2.56	15.71	5.73
0106 C106	5.4	20	7.07	11.7	5.50	3.29	1.10	2.65	14.34	5.97
0107 C107	4.7	17	7.58	10.2	6.02	3.65	1.07	2.02	15.90	6.42
0108 C108	7.1	25	7.78	14.4	5.98	3.46	1.08	2.05	16.21	6.53
0109 C109	6.7	24	7.98	13.7	5.29	3.13	1.16	2.40	14.97	5.91
0110 C110	8.1	33	7.96	19.0	5.61	3.23	1.24	2.33	15.52	6.28
0111 C111	7.9	34	7.54	18.6	4.99	2.99	1.07	2.29	14.84	5.42
0112 C112	6.2	25	8.94	12.0	5.90	3.56	1.11	2.05	16.29	6.24
0113 C113	7.1	27	7.20	14.5	5.47	3.12	0.93	2.39	14.89	6.18
0114 C114	5.7	24	7.01	27.6	9.08	5.37	0.86	2.18	19.07	9.32
0115 C115	2.7	9	8.19	2.9	22.20	13.06	1.13	1.73	34.56	23.16
0116 C116	2.0	9	3.35	3.1	15.43	9.51	0.76	1.79	26.19	16.78
0117 C117	1.1	6	1.60	1.2	14.79	9.55	0.57	1.66	22.73	15.45
0118 C118	1.1	6	2.50	1.1	18.02	11.25	0.64	1.76	29.69	17.66
0119 C119	0.8	8	1.33	6.4	18.09	11.02	0.55	1.41	20.63	20.67
0120 C120	0.7	8	1.16	1.7	16.70	9.96	0.54	1.39	20.22	16.77



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	1.5	5.85	1.37	0.06	2.76%	45.16	20.6	0.62	8763	1943
0082 C082	1.4	5.79	1.25	0.06	2.79%	45.19	21.4	0.58	1.25%	1014
0083 C083	1.5	6.10	1.27	0.05	2.97%	45.23	22.9	0.58	9599	205
0084 C084	1.5	5.58	1.18	0.05	2.87%	45.27	21.9	0.55	9099	183
0085 C085	1.5	5.73	1.12	0.06	2.90%	45.42	23.3	0.53	8419	180
0086 C086	1.5	6.08	1.37	0.07	3.44%	49.05	22.9	0.63	1.02%	348
0087 C087	1.6	6.03	1.19	0.08	3.49%	44.73	25.2	0.55	9588	198
0088 C088	1.5	5.90	1.15	0.05	3.63%	44.40	24.7	0.54	9504	368
0089 C089	1.4	6.82	1.37	0.04	3.34%	52.90	22.7	0.59	1.04%	300
0090 C090	1.5	6.00	1.25	0.06	3.29%	43.92	24.6	0.54	9336	190
0091 C091	1.4	5.44	1.15	0.07	3.15%	40.95	24.9	0.54	9369	189
0092 C092	1.7	2.07	0.40	0.20	1.86%	19.53	26.9	0.16	1.55%	552
0093 C093	1.5	5.78	1.17	0.05	3.46%	41.62	26.2	0.53	9145	370
0094 C094	1.6	5.97	1.33	0.06	3.40%	46.79	26.8	0.60	9674	449
0095 C095	1.4	6.21	1.30	0.06	3.77%	47.97	24.3	0.56	8152	225
0096 C096	1.5	5.94	1.14	0.06	3.95%	44.81	24.4	0.47	8386	506
0097 C097	1.6	7.20	1.68	0.09	3.84%	53.05	23.5	0.71	8531	244
0098 C098	1.4	5.54	1.12	0.06	3.85%	41.04	23.6	0.48	8055	262
0099 C099	1.6	6.74	1.55	0.06	3.30%	50.94	22.3	0.67	9776	254
0100 C100	1.6	5.89	1.18	0.05	3.12%	48.74	21.9	0.55	9338	220
0101 C101	1.7	6.26	1.29	0.06	3.71%	55.10	22.0	0.56	9104	182
0102 C102	1.5	5.69	1.17	0.07	3.54%	44.71	24.2	0.51	1.04%	361
0103 C103	1.5	6.08	1.26	0.07	3.48%	46.61	22.1	0.54	1.02%	322
0104 C104	1.8	5.73	1.13	0.07	3.55%	46.25	22.1	0.54	9959	334
0105 C105	1.6	5.39	1.11	0.07	3.46%	43.77	22.0	0.49	1.08%	572
0106 C106	1.5	5.36	1.10	0.05	3.01%	46.12	21.1	0.51	9154	259
0107 C107	1.5	5.69	1.23	0.04	3.46%	51.21	20.1	0.57	1.12%	558
0108 C108	1.7	5.79	1.20	0.05	3.70%	51.27	21.7	0.52	8717	213
0109 C109	1.3	5.27	1.06	0.05	3.48%	48.40	21.6	0.47	1.90%	2594
0110 C110	1.6	6.16	1.12	0.06	4.36%	45.98	26.5	0.47	8431	253
0111 C111	1.4	5.68	1.01	0.06	4.37%	42.03	27.2	0.45	7831	188
0112 C112	1.6	5.85	1.16	0.07	4.29%	50.45	31.0	0.54	9473	164
0113 C113	1.4	5.39	1.10	0.15	4.07%	47.95	27.7	0.48	1.01%	479
0114 C114	1.6	6.65	1.88	0.11	4.23%	64.92	34.2	0.77	9430	175
0115 C115	1.5	11.73	4.52	0.13	4.23%	133.31	22.2	1.78	1.10%	92
0116 C116	1.3	8.33	3.14	0.06	3.89%	102.20	17.9	1.25	7754	199
0117 C117	1.0	9.14	3.28	0.04	4.18%	108.94	15.0	1.40	6696	254
0118 C118	1.0	10.45	3.68	0.06	4.21%	116.65	17.4	1.71	7069	130
0119 C119	1.0	8.63	3.78	0.06	1.94%	113.51	12.0	1.51	6040	298
0120 C120	1.1	8.40	3.40	0.05	1.42%	105.68	12.0	1.38	5702	307



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	3.0	9432	12.75	39.65	16.2	410	35.4	10.48	169.53	X
0082 C082	2.8	9959	12.16	38.72	17.1	375	34.9	10.21	169.62	X
0083 C083	3.0	9265	12.61	40.10	15.7	431	33.1	10.59	181.31	0.002
0084 C084	3.2	9656	12.33	39.57	15.6	394	35.4	10.51	173.14	X
0085 C085	3.9	1.23%	12.03	38.75	20.4	434	41.7	10.19	175.27	0.002
0086 C086	2.8	7876	14.28	43.86	14.8	362	38.7	11.36	198.47	0.003
0087 C087	2.6	9508	13.38	39.32	15.8	395	39.4	10.26	202.05	0.002
0088 C088	2.9	1.02%	12.33	37.63	14.9	451	37.9	9.89	201.85	X
0089 C089	2.3	6165	15.15	44.58	8.0	479	15.5	12.11	188.99	0.002
0090 C090	2.2	8199	13.64	38.87	13.3	404	49.1	10.23	195.86	0.002
0091 C091	2.2	8241	13.13	36.08	13.0	390	61.5	9.43	188.49	0.002
0092 C092	11.0	1.82%	5.18	15.90	264.8	483	73.1	4.15	197.13	0.005
0093 C093	2.5	8474	13.67	36.37	13.8	472	30.0	9.53	201.08	X
0094 C094	2.2	8063	18.09	40.83	10.3	534	23.2	10.80	205.70	X
0095 C095	2.7	7515	17.18	40.76	14.9	511	41.0	10.84	205.68	0.003
0096 C096	2.7	6734	14.49	37.77	14.6	541	41.8	10.14	208.82	0.003
0097 C097	3.7	7919	17.23	47.58	15.1	498	45.7	12.20	208.02	0.002
0098 C098	3.6	8852	12.15	34.75	17.8	574	59.1	9.24	210.62	X
0099 C099	3.5	8861	15.63	44.62	12.6	440	46.8	11.69	189.99	X
0100 C100	3.7	9458	14.13	39.73	11.9	456	48.6	10.82	179.48	0.003
0101 C101	3.5	9915	15.33	45.82	12.9	445	34.6	12.43	200.65	X
0102 C102	3.1	9353	12.04	38.31	11.8	468	43.1	10.06	208.38	0.002
0103 C103	3.0	8700	12.29	39.34	12.2	440	64.5	10.63	203.11	0.003
0104 C104	3.0	9157	12.27	38.97	12.9	444	70.5	10.51	204.29	0.003
0105 C105	2.5	1.07%	11.85	37.44	13.7	475	58.1	9.99	201.17	0.005
0106 C106	2.5	7833	11.83	39.08	11.6	564	39.2	10.27	177.16	X
0107 C107	2.7	6835	14.47	42.18	9.1	369	30.0	11.42	194.65	0.004
0108 C108	2.7	8812	13.70	41.80	13.4	413	45.5	11.35	195.65	X
0109 C109	2.9	7477	14.11	38.65	13.0	481	34.5	10.53	193.99	X
0110 C110	2.9	6439	11.49	39.00	16.8	651	48.1	10.16	220.44	X
0111 C111	3.1	6961	11.27	35.91	18.6	579	30.4	9.66	211.47	X
0112 C112	2.8	6342	14.17	41.53	12.8	474	31.2	11.25	238.33	0.002
0113 C113	3.1	5753	14.21	39.14	14.1	472	24.9	10.61	200.09	X
0114 C114	3.2	4338	25.98	54.43	11.7	393	24.5	14.38	220.89	0.003
0115 C115	4.6	2777	70.47	115.88	3.5	213	10.6	30.65	252.29	X
0116 C116	6.2	5297	50.39	89.21	3.8	166	7.0	23.26	158.22	X
0117 C117	3.1	1.27%	60.23	95.28	1.9	110	8.9	25.36	123.42	X
0118 C118	2.9	1.27%	68.58	102.30	2.0	111	7.8	26.76	150.29	X
0119 C119	2.2	2.52%	56.68	97.11	1.5	85	11.1	25.34	81.79	X
0120 C120	3.5	2.81%	56.11	90.69	1.2	68	6.2	24.04	63.21	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	1.16	2.04	8.1	X	7.75	3.0	63.70	1.06	1.06	X
0082 C082	0.79	1.70	8.6	X	7.43	3.1	49.22	1.05	1.01	X
0083 C083	0.81	2.12	8.9	X	7.59	3.1	49.04	1.07	1.02	X
0084 C084	1.45	4.26	8.4	X	7.43	3.1	48.32	1.04	0.93	X
0085 C085	1.28	3.06	9.0	X	7.24	3.0	52.24	1.04	0.91	X
0086 C086	0.56	2.10	9.7	X	8.60	3.3	49.92	1.19	1.12	X
0087 C087	0.60	2.34	8.8	X	7.36	3.3	51.96	1.16	0.94	X
0088 C088	0.65	2.33	9.4	X	6.96	3.2	52.63	1.05	0.92	X
0089 C089	0.46	1.59	8.2	X	8.03	3.8	45.78	1.34	1.07	X
0090 C090	0.55	1.99	7.8	X	7.45	3.3	48.78	1.14	0.99	X
0091 C091	0.51	1.99	7.7	X	6.73	3.0	47.21	1.12	0.91	X
0092 C092	0.20	5.15	10.0	X	3.11	13.4	188.16	0.84	0.38	0.2
0093 C093	0.60	1.77	7.7	X	6.73	3.3	52.15	1.17	0.95	X
0094 C094	0.61	1.60	6.8	X	7.54	3.8	58.32	1.45	1.08	X
0095 C095	1.66	3.08	7.7	X	7.76	3.6	48.69	1.37	1.03	X
0096 C096	1.44	2.24	7.9	X	6.88	2.9	52.36	1.21	0.94	X
0097 C097	1.54	1.95	8.3	0.7	9.09	4.2	51.44	1.41	1.28	X
0098 C098	1.81	2.43	9.0	X	6.45	3.1	52.20	1.06	0.90	X
0099 C099	1.39	2.02	7.9	X	8.50	4.1	47.14	1.36	1.23	X
0100 C100	1.46	3.25	7.9	X	7.14	3.6	45.46	1.21	0.96	X
0101 C101	1.51	2.08	8.7	X	8.18	3.8	47.85	1.36	1.05	X
0102 C102	1.19	2.31	9.1	X	7.13	3.0	48.07	1.04	0.93	X
0103 C103	1.46	2.14	8.9	0.6	7.44	3.1	44.38	1.02	0.98	X
0104 C104	1.33	2.27	8.5	X	7.23	3.0	47.09	1.00	0.93	X
0105 C105	1.29	2.38	9.0	X	6.83	3.0	47.21	0.98	0.88	X
0106 C106	1.42	3.84	7.2	X	6.93	2.9	42.67	1.01	0.89	X
0107 C107	0.79	2.19	7.2	X	7.60	3.2	42.45	1.30	0.97	X
0108 C108	0.66	2.04	7.7	X	7.71	3.5	43.45	1.19	0.98	X
0109 C109	0.46	1.84	7.6	0.5	6.90	3.2	43.02	1.20	0.89	X
0110 C110	0.43	2.18	9.1	0.6	7.11	3.0	42.32	0.96	0.93	X
0111 C111	0.46	2.09	8.5	0.5	6.75	2.8	41.88	0.95	0.83	X
0112 C112	0.40	1.87	8.2	X	7.51	3.2	42.09	1.18	0.96	X
0113 C113	0.77	4.09	7.1	X	7.18	3.5	34.64	1.23	0.92	X
0114 C114	0.32	1.49	7.4	X	10.29	5.3	36.59	1.93	1.50	X
0115 C115	0.19	0.92	5.5	X	23.82	13.5	36.33	4.89	3.58	X
0116 C116	0.16	0.68	4.1	0.9	18.08	11.0	19.55	3.40	2.64	X
0117 C117	0.10	0.59	3.3	0.5	17.97	8.7	15.51	4.06	2.34	X
0118 C118	0.08	0.47	3.7	X	20.02	12.5	19.24	4.67	2.79	X
0119 C119	0.08	0.37	2.9	X	19.48	8.4	23.44	3.95	2.76	X
0120 C120	0.06	0.45	3.0	X	18.09	7.9	25.14	3.82	2.61	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0081 C081	17.67	2249	1.39	0.60	4.88	36	2.5	36.35	4.03	125
0082 C082	17.68	2256	1.29	0.53	4.72	36	2.5	32.92	3.74	101
0083 C083	18.59	2438	1.38	0.55	4.99	38	2.7	32.39	3.80	99
0084 C084	18.35	2194	2.29	0.53	4.85	37	2.4	29.96	3.59	90
0085 C085	17.60	2467	1.93	0.48	4.99	44	2.8	28.65	3.45	118
0086 C086	21.01	2428	1.25	0.59	5.33	32	2.6	35.53	4.18	106
0087 C087	19.58	2461	1.30	0.49	5.12	38	2.6	30.19	3.58	139
0088 C088	18.19	2608	1.36	0.50	4.77	43	2.8	28.67	3.42	98
0089 C089	26.65	2423	1.31	0.58	6.59	29	3.1	35.29	3.88	15
0090 C090	19.09	2163	1.33	0.54	4.97	33	2.6	32.05	3.77	147
0091 C091	18.48	2071	1.39	0.52	4.74	32	2.6	29.44	3.47	197
0092 C092	8.13	2990	1.70	0.16	2.34	76	28.0	9.89	1.03	111
0093 C093	17.73	2277	1.37	0.50	4.99	42	2.7	30.87	3.52	88
0094 C094	19.94	2045	1.31	0.60	4.90	32	2.2	35.79	4.09	39
0095 C095	18.62	2377	1.56	0.58	4.77	42	2.6	32.35	3.80	95
0096 C096	19.41	2402	1.37	0.46	4.63	42	2.7	28.79	3.22	211
0097 C097	20.95	2515	1.58	0.70	5.03	45	2.8	40.77	4.74	243
0098 C098	17.14	2600	1.39	0.47	4.51	51	3.1	28.21	3.24	158
0099 C099	21.75	2435	1.30	0.65	5.41	38	3.0	38.89	4.38	79
0100 C100	23.65	2337	1.62	0.52	6.17	38	3.4	31.08	3.57	69
0101 C101	24.96	2404	1.37	0.52	6.35	39	3.0	32.21	3.65	141
0102 C102	18.12	2521	1.43	0.50	4.28	39	2.8	30.43	3.40	86
0103 C103	18.20	2426	1.62	0.52	4.47	37	2.6	32.01	3.64	104
0104 C104	18.43	2371	1.82	0.48	4.70	37	2.7	29.41	3.46	299
0105 C105	16.64	2490	1.65	0.47	4.40	40	2.9	28.19	3.15	242
0106 C106	18.25	2121	1.90	0.47	4.89	31	2.7	28.70	3.27	75
0107 C107	24.21	2030	1.50	0.54	5.80	26	2.6	31.98	3.74	61
0108 C108	21.50	2216	1.29	0.51	5.51	36	2.8	31.40	3.45	104
0109 C109	22.04	2188	1.21	0.46	5.84	34	2.8	28.22	3.07	105
0110 C110	16.59	2575	1.32	0.47	4.59	44	3.0	28.99	3.16	108
0111 C111	16.24	2519	1.26	0.43	4.67	45	2.9	26.60	3.00	93
0112 C112	22.62	2250	1.31	0.52	5.63	33	3.1	30.90	3.48	26
0113 C113	21.77	2077	1.43	0.46	6.17	34	3.7	28.69	3.11	12
0114 C114	25.61	2065	1.14	0.77	6.35	33	4.8	48.26	5.34	13
0115 C115	50.55	1687	1.07	1.84	12.38	10	2.1	114.52	12.63	6
0116 C116	35.15	1222	0.76	1.30	8.78	9	3.2	78.91	8.47	5
0117 C117	40.03	1123	0.64	1.42	9.80	5	1.6	72.73	9.65	5
0118 C118	45.10	1247	0.72	1.68	11.13	5	2.1	91.48	11.50	6
0119 C119	36.99	921	0.36	1.73	9.54	3	1.4	92.43	10.45	9
0120 C120	36.03	906	0.28	1.46	9.23	3	1.6	85.11	11.11	4



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS
SAMPLE NUMBERS

0081 C081	194.2
0082 C082	199.0
0083 C083	198.8
0084 C084	182.2
0085 C085	189.2
0086 C086	201.6
0087 C087	203.3
0088 C088	199.6
0089 C089	229.1
0090 C090	192.9
0091 C091	177.1
0092 C092	70.3
0093 C093	190.8
0094 C094	190.3
0095 C095	200.4
0096 C096	200.3
0097 C097	232.2
0098 C098	191.6
0099 C099	218.9
0100 C100	193.7
0101 C101	202.2
0102 C102	192.0
0103 C103	205.3
0104 C104	185.4
0105 C105	183.1
0106 C106	183.7
0107 C107	174.5
0108 C108	191.4
0109 C109	172.0
0110 C110	202.1
0111 C111	198.4
0112 C112	187.5
0113 C113	179.8
0114 C114	199.0
0115 C115	321.5
0116 C116	220.7
0117 C117	244.6
0118 C118	271.4
0119 C119	216.3
0120 C120	213.9



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	0.006	X	8.19%	1.9	282.9	6.78	0.38	2073	X	282.90
0122 C122	X	X	8.07%	1.8	275.4	6.95	0.34	957	X	292.28
0123 C123	0.492	0.65	8.03%	225.2	304.2	2.82	4.15	2.97%	0.17	38.15
0124 C124	X	X	5.99%	2.2	251.7	3.58	0.32	8104	X	241.52
0125 C125	X	X	8.99%	3.9	286.7	7.84	0.43	1376	X	255.02
0126 C126	X	X	6.99%	2.5	285.9	4.80	0.33	2837	X	279.56
0127 C127	X	X	11.17%	4.1	367.0	11.34	0.54	1463	X	355.56
0128 C128	X	0.08	6.30%	14.4	572.9	3.81	0.41	1302	X	98.38
0129 C129	X	0.10	7.52%	21.1	571.4	4.38	0.60	1585	0.23	94.16
0130 C130	X	0.08	7.09%	13.4	605.9	3.41	0.44	1595	0.18	92.26
0131 C131	X	0.16	7.38%	46.7	633.6	2.77	0.57	1740	0.11	101.27
0132 C132	X	0.09	6.92%	63.2	619.1	2.53	0.46	2343	0.18	91.20
0133 C133	X	0.12	6.46%	40.4	535.0	2.30	0.54	9341	0.04	85.42
0134 C134	X	0.12	6.23%	18.2	542.2	2.22	0.48	2.10%	0.07	81.51
0135 C135	X	0.11	5.93%	101.4	513.2	2.11	0.48	2.37%	0.10	78.03
0136 C136	X	0.11	6.32%	58.1	540.5	2.19	0.50	2.09%	0.17	84.49
0137 C137	X	X	7.55%	11.7	593.6	2.66	0.46	1787	0.12	99.33
0138 C138	X	0.17	6.30%	180.8	545.1	2.18	0.51	8152	0.02	83.47
0139 C139	X	0.07	6.19%	30.9	513.0	2.16	0.47	2.19%	0.06	83.04
0140 C140	X	0.09	5.80%	28.0	510.8	1.99	0.46	2.23%	0.27	77.73
0141 C141	0.068	0.08	6.13%	45.2	489.0	2.19	0.57	2.38%	0.12	89.49
0142 C142	X	0.08	5.78%	24.1	490.8	2.18	0.43	2.98%	0.14	79.43
0143 C143	X	0.11	5.80%	39.3	481.5	2.17	0.55	2.98%	0.12	81.36
0144 C144	X	0.08	5.80%	21.4	474.3	2.19	0.46	3.12%	0.10	80.98
0145 C145	X	0.06	6.46%	22.1	424.6	2.27	0.48	2.78%	0.11	84.23
0146 C146	X	0.08	5.62%	18.7	440.5	1.91	0.38	3.78%	0.14	73.44
0147 C147	X	0.07	6.74%	17.6	407.5	2.43	0.62	3.09%	0.06	89.11
CHECKS										
0001 C004	X									
0002 C043	X									
0003 C079	X									
0004 C106	X									
0005 C127	X									
0006 C023		0.08	6.35%	11.8	583.7	2.59	0.50	3218	0.13	81.24
0007 C033		0.09	7.61%	9.7	500.8	2.92	0.57	2695	0.24	92.73
0008 C071		0.08	7.21%	17.9	618.6	2.72	0.61	9755	0.17	91.42
0009 C104		0.15	7.01%	17.0	517.7	2.46	0.64	3965	0.51	92.81
0010 C118		X	7.15%	2.4	763.0	3.06	0.33	931	X	246.98



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	0.9	4	6.06	0.9	25.46	15.65	0.73	1.76	40.10	23.95
0122 C122	1.0	3	6.09	1.4	25.16	15.70	0.69	2.15	40.15	23.42
0123 C123	21.0	132	10.00	244.5	2.10	1.08	0.82	3.98	18.81	2.68
0124 C124	0.9	5	3.13	3.1	16.52	10.08	0.71	1.94	24.70	18.18
0125 C125	1.5	5	7.17	1.5	23.71	14.04	0.70	1.98	47.64	20.25
0126 C126	1.3	5	4.74	4.3	18.61	11.97	0.89	2.03	29.79	20.14
0127 C127	2.0	5	12.44	1.6	24.37	14.90	1.28	2.52	44.16	26.65
0128 C128	7.3	40	6.98	13.4	5.89	3.40	0.92	2.06	15.03	6.93
0129 C129	9.4	39	9.53	20.1	4.97	2.83	1.05	2.42	16.82	5.64
0130 C130	8.3	39	9.70	16.8	4.98	2.89	1.10	2.44	16.38	5.47
0131 C131	12.3	41	9.54	16.1	5.30	3.08	1.18	3.67	16.91	6.19
0132 C132	8.9	47	9.56	17.7	5.07	2.85	1.13	2.92	16.24	5.74
0133 C133	7.2	40	9.61	15.5	4.99	2.99	1.10	3.07	14.28	5.43
0134 C134	6.9	39	9.17	14.0	4.70	2.91	1.02	2.73	14.03	5.25
0135 C135	7.1	38	8.86	15.4	4.43	2.72	0.98	3.25	13.75	5.02
0136 C136	7.9	40	9.11	15.1	4.90	2.96	1.11	3.27	14.03	5.68
0137 C137	7.5	45	11.50	15.4	5.40	3.27	1.27	2.54	17.42	6.24
0138 C138	9.2	41	9.02	17.2	4.80	2.87	1.04	5.18	14.71	5.38
0139 C139	6.9	39	9.38	12.4	4.68	2.79	1.03	2.58	13.82	5.35
0140 C140	6.7	39	8.80	13.5	4.64	2.77	1.00	2.37	13.57	5.02
0141 C141	6.9	35	9.02	12.9	5.12	3.07	1.05	2.55	13.99	5.55
0142 C142	6.7	40	8.22	11.8	4.84	2.91	0.96	2.38	13.54	5.29
0143 C143	7.1	36	8.34	12.5	4.56	2.77	0.97	2.74	13.28	5.05
0144 C144	6.9	34	7.98	12.3	4.70	2.81	0.98	2.28	13.66	5.24
0145 C145	6.4	31	8.73	11.9	4.81	2.89	1.01	2.10	14.15	5.29
0146 C146	6.3	27	7.19	12.9	4.50	2.69	1.00	2.24	12.81	5.11
0147 C147	5.2	23	9.33	11.8	5.15	3.13	1.00	2.01	14.84	5.55
CHECKS										
0001 C004										
0002 C043										
0003 C079										
0004 C106										
0005 C127										
0006 C023	8.7	34	9.58	19.9	4.60	2.59	1.00	2.21	14.30	5.02
0007 C033	8.0	35	10.89	18.7	5.93	3.47	1.17	2.31	16.75	6.41
0008 C071	9.4	33	10.84	18.0	5.51	3.36	1.18	2.75	16.53	7.84
0009 C104	6.2	22	8.23	12.5	6.21	3.24	1.20	2.47	15.26	5.94
0010 C118	1.1	7	2.54	1.0	18.59	11.42	0.66	1.77	29.67	17.81



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	1.3	12.74	5.29	0.14	3.48%	135.58	17.9	2.17	1.15%	182
0122 C122	1.3	13.24	5.27	0.14	3.43%	140.44	21.0	2.09	1.21%	112
0123 C123	1.3	2.28	0.40	0.18	1.87%	19.36	26.7	0.16	1.58%	562
0124 C124	1.4	8.75	3.60	0.11	1.89%	113.95	17.6	1.45	1.13%	647
0125 C125	1.4	13.26	4.62	0.12	3.73%	114.95	23.2	2.02	1.21%	141
0126 C126	1.4	10.89	3.86	0.12	2.65%	132.52	20.1	1.75	1.06%	270
0127 C127	1.2	17.51	5.09	0.17	5.21%	157.56	31.0	2.11	1.55%	136
0128 C128	1.5	5.18	1.18	0.07	3.93%	48.26	29.7	0.48	7387	126
0129 C129	1.5	6.00	1.00	0.06	4.62%	45.92	33.0	0.45	9395	136
0130 C130	1.5	6.05	1.00	0.05	4.44%	45.04	32.4	0.43	9327	143
0131 C131	1.5	6.55	1.06	0.05	4.58%	48.67	28.6	0.47	8953	143
0132 C132	1.8	6.16	1.00	0.06	4.43%	44.40	28.4	0.43	9329	170
0133 C133	1.5	5.86	1.02	0.04	4.03%	41.87	23.8	0.45	1.17%	345
0134 C134	1.6	5.71	0.98	0.04	3.88%	40.11	21.8	0.43	1.72%	610
0135 C135	1.5	5.38	0.89	0.04	3.68%	38.82	21.5	0.39	1.83%	595
0136 C136	1.5	6.08	0.99	0.04	3.90%	41.70	22.6	0.44	1.76%	547
0137 C137	1.9	6.71	1.13	0.07	4.62%	48.77	31.0	0.49	1.09%	99
0138 C138	1.4	5.96	0.97	0.04	3.76%	41.51	22.3	0.44	1.12%	231
0139 C139	1.5	6.02	0.96	0.04	3.65%	40.66	24.2	0.42	1.82%	430
0140 C140	1.3	5.77	0.95	0.05	3.45%	38.84	23.9	0.41	1.80%	402
0141 C141	1.2	5.87	1.05	0.03	3.53%	44.04	24.3	0.45	1.93%	396
0142 C142	1.2	5.71	0.99	0.05	3.36%	39.49	23.4	0.44	2.16%	428
0143 C143	1.2	5.47	0.96	0.04	3.43%	40.13	23.0	0.39	2.14%	419
0144 C144	1.0	5.61	0.98	0.04	3.36%	40.40	23.1	0.42	2.27%	442
0145 C145	1.2	5.50	1.01	0.04	3.62%	40.98	23.7	0.44	2.13%	387
0146 C146	1.1	5.14	0.91	0.04	3.33%	37.11	23.5	0.40	2.52%	449
0147 C147	1.2	5.62	1.08	0.05	3.69%	42.98	27.2	0.47	2.36%	367
CHECKS										
0001 C004										
0002 C043										
0003 C079										
0004 C106										
0005 C127										
0006 C023	1.6	5.15	0.95	0.04	3.02%	39.74	27.7	0.41	8548	228
0007 C033	1.5	6.39	1.26	0.06	3.29%	44.46	29.0	0.58	9335	186
0008 C071	1.7	6.34	1.16	0.06	3.81%	43.90	22.9	0.53	7840	342
0009 C104	1.6	5.43	1.10	0.07	3.43%	43.99	21.0	0.48	9685	327
0010 C118	1.2	10.49	3.76	0.06	4.21%	116.49	17.4	1.65	7060	131



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	5.5	4422	89.82	119.36	1.1	77	8.6	31.29	210.48	X
0122 C122	5.1	2859	90.99	121.15	1.2	91	8.2	31.68	210.05	X
0123 C123	11.2	1.86%	5.45	16.52	274.5	553	74.7	4.19	201.34	0.003
0124 C124	3.7	1.59%	60.14	99.40	1.6	107	16.5	26.14	115.82	X
0125 C125	3.2	6605	94.64	106.12	2.0	102	9.0	28.09	238.76	X
0126 C126	5.5	1.09%	71.87	115.26	1.9	104	7.8	30.48	167.74	X
0127 C127	7.1	3248	102.54	151.54	4.0	193	16.0	39.48	304.63	X
0128 C128	3.0	7954	12.66	39.96	16.6	459	15.6	10.59	191.23	X
0129 C129	2.7	7663	12.64	36.70	19.8	498	32.2	9.97	246.68	X
0130 C130	2.9	6905	12.52	36.98	18.4	470	29.6	9.91	239.09	X
0131 C131	3.5	8382	13.91	40.99	21.0	471	39.1	10.88	240.64	0.002
0132 C132	3.7	6944	12.22	37.15	21.9	493	29.2	9.98	239.19	X
0133 C133	5.1	6533	11.11	36.28	19.0	471	32.8	9.38	227.17	X
0134 C134	5.1	6220	10.90	33.51	17.6	444	27.2	8.97	214.31	X
0135 C135	5.9	5867	10.32	32.26	19.0	456	30.3	8.59	205.91	0.002
0136 C136	6.7	6438	10.97	35.30	20.6	466	29.7	9.36	214.71	X
0137 C137	3.6	6808	13.24	41.10	20.4	554	18.0	10.92	266.21	0.002
0138 C138	9.3	7371	11.35	34.55	22.3	456	50.9	9.34	210.12	0.005
0139 C139	6.0	6678	11.81	34.02	17.7	472	23.5	9.13	207.65	X
0140 C140	5.7	6702	10.95	32.52	16.7	433	24.5	8.72	198.51	X
0141 C141	5.8	6678	12.64	36.65	16.5	446	26.3	9.72	206.57	X
0142 C142	6.7	7113	12.28	32.84	16.4	470	27.6	8.87	190.11	0.002
0143 C143	5.4	6960	11.15	32.73	16.3	444	30.2	8.71	194.23	0.003
0144 C144	5.0	7465	11.13	33.55	15.0	484	28.0	8.93	192.68	X
0145 C145	3.8	6708	11.52	34.00	13.2	552	36.2	9.14	210.47	X
0146 C146	3.5	6740	10.24	30.76	14.7	743	25.3	8.21	191.15	X
0147 C147	2.9	6240	12.79	35.17	11.5	622	19.0	9.77	226.02	X
CHECKS										
0001 C004										
0002 C043										
0003 C079										
0004 C106										
0005 C127										
0006 C023	5.0	4928	11.69	33.17	16.1	400	23.2	8.77	175.39	0.007
0007 C033	3.6	6840	13.22	39.01	15.8	452	29.1	10.16	190.34	0.003
0008 C071	3.0	8198	13.06	37.68	19.4	431	36.1	9.81	212.80	0.003
0009 C104	2.9	8858	11.82	37.66	12.2	450	65.1	9.86	196.55	X
0010 C118	3.0	1.28%	69.28	101.61	1.8	102	7.7	26.94	152.90	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	0.07	0.52	4.3	X	24.14	21.3	29.79	6.10	4.00	X
0122 C122	0.08	0.47	4.2	0.6	24.56	19.9	29.67	6.21	3.91	X
0123 C123	0.22	5.06	10.0	X	3.19	13.7	190.85	0.77	0.37	0.2
0124 C124	0.10	0.35	3.4	X	20.17	10.6	28.08	4.06	2.70	X
0125 C125	0.08	0.41	5.2	0.7	21.79	20.9	32.91	6.19	3.45	X
0126 C126	0.10	0.48	3.9	X	22.81	12.9	29.71	4.86	3.03	X
0127 C127	0.14	0.75	6.6	1.1	30.36	18.6	41.25	8.13	4.05	X
0128 C128	0.39	1.52	8.2	0.6	7.82	3.2	40.00	0.96	1.00	X
0129 C129	0.68	2.29	9.0	X	6.71	3.1	49.19	1.16	0.81	X
0130 C130	0.60	1.76	9.0	X	6.84	3.0	49.40	1.10	0.83	X
0131 C131	2.09	4.21	9.3	1.1	7.49	3.4	52.45	1.14	0.90	X
0132 C132	1.32	3.43	9.3	X	6.73	3.2	50.49	1.04	0.84	X
0133 C133	1.94	2.97	8.4	X	6.53	2.9	52.83	1.16	0.80	X
0134 C134	1.49	1.87	7.9	X	6.15	2.8	60.12	0.93	0.79	X
0135 C135	2.10	3.47	7.6	0.7	5.87	2.7	62.75	0.90	0.75	X
0136 C136	2.02	2.79	8.1	0.7	6.49	3.0	60.98	0.95	0.78	X
0137 C137	0.82	1.23	9.7	0.7	7.66	3.3	51.52	1.15	0.92	X
0138 C138	4.28	3.98	8.4	X	6.26	3.1	47.54	0.96	0.80	X
0139 C139	1.29	1.90	7.9	X	6.10	2.9	54.54	1.04	0.79	X
0140 C140	1.10	1.75	7.8	X	5.97	2.6	53.32	0.90	0.75	X
0141 C141	1.28	2.36	7.7	0.5	6.61	3.2	55.81	1.09	0.83	X
0142 C142	1.07	1.94	7.6	X	5.99	3.1	60.24	1.03	0.78	X
0143 C143	1.48	2.57	7.5	X	5.94	3.0	57.17	0.97	0.76	X
0144 C144	1.01	1.78	7.3	X	5.99	2.8	58.53	0.98	0.78	X
0145 C145	0.81	1.57	7.5	X	6.02	2.8	54.96	1.05	0.79	X
0146 C146	0.86	1.56	7.5	X	5.87	2.6	58.14	0.87	0.76	X
0147 C147	0.67	1.26	7.7	X	6.51	3.0	55.31	1.15	0.85	X
CHECKS										
0001 C004										
0002 C043										
0003 C079										
0004 C106										
0005 C127										
0006 C023	0.48	1.73	8.3	X	6.05	2.6	38.91	0.99	0.78	X
0007 C033	0.54	1.92	9.9	X	7.39	3.4	44.70	1.15	0.97	X
0008 C071	1.04	1.98	9.0	X	7.12	3.1	57.61	1.08	0.91	X
0009 C104	1.31	2.13	8.4	X	6.78	3.0	45.80	0.98	0.89	X
0010 C118	0.09	0.51	3.7	0.7	20.41	12.3	19.27	4.59	2.78	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
SAMPLE NUMBERS										
0121 C121	56.85	1271	0.81	2.25	14.67	2	2.1	129.03	15.17	5
0122 C122	57.71	1265	0.78	2.26	14.73	2	1.9	127.60	15.03	6
0123 C123	8.06	2973	1.69	0.16	2.34	74	28.2	9.98	1.08	113
0124 C124	37.63	986	0.46	1.47	9.75	4	2.1	82.37	9.92	5
0125 C125	59.11	1432	0.87	2.06	14.75	5	2.2	110.93	14.09	7
0126 C126	46.51	1214	0.66	1.70	11.65	4	1.9	93.12	11.81	6
0127 C127	76.73	2011	1.32	2.22	18.35	5	1.9	120.18	14.77	7
0128 C128	16.31	2352	1.19	0.49	4.49	41	4.0	34.76	3.29	21
0129 C129	20.47	2661	1.40	0.41	5.39	44	3.7	25.96	2.97	132
0130 C130	18.86	2653	1.37	0.42	5.34	49	2.9	25.75	2.95	107
0131 C131	19.05	2792	1.84	0.48	5.20	48	2.6	27.50	3.08	66
0132 C132	17.77	2721	1.89	0.41	6.19	53	2.6	26.02	2.87	95
0133 C133	17.29	2447	1.91	0.43	8.47	45	2.4	28.69	2.94	27
0134 C134	16.42	2349	1.77	0.41	8.41	47	2.4	26.90	2.75	52
0135 C135	15.61	2299	2.02	0.39	7.67	54	2.2	25.21	2.70	62
0136 C136	16.23	2463	1.89	0.43	8.31	59	2.4	26.84	2.88	71
0137 C137	19.88	2908	1.69	0.48	6.66	59	2.8	28.97	3.24	73
0138 C138	16.86	2492	3.21	0.42	11.32	55	2.4	25.34	2.88	22
0139 C139	16.91	2441	1.89	0.42	8.89	49	2.5	26.17	2.85	37
0140 C140	15.65	2390	1.97	0.41	8.71	48	2.7	25.01	2.67	87
0141 C141	17.58	2420	1.99	0.46	8.97	45	2.7	27.79	3.07	58
0142 C142	15.70	2348	1.81	0.42	8.47	46	2.8	26.54	2.89	72
0143 C143	16.73	2289	1.64	0.40	7.93	47	2.4	24.61	2.68	63
0144 C144	16.31	2266	1.49	0.39	6.87	48	2.3	25.53	2.75	61
0145 C145	18.31	2213	1.26	0.43	6.34	48	2.1	26.10	2.89	52
0146 C146	15.27	2268	1.25	0.38	5.51	52	2.4	24.71	2.64	58
0147 C147	20.37	2188	1.24	0.46	5.83	42	2.1	28.70	3.23	37
CHECKS										
0001 C004										
0002 C043										
0003 C079										
0004 C106										
0005 C127										
0006 C023	16.94	2096	1.05	0.42	5.01	51	2.6	24.31	2.85	49
0007 C033	19.71	2525	1.18	0.56	5.91	46	2.8	32.58	3.75	95
0008 C071	17.61	2617	1.30	0.51	4.97	45	2.7	30.40	3.51	97
0009 C104	17.13	2291	1.73	0.47	4.30	36	2.4	28.60	3.30	313
0010 C118	45.15	1245	0.75	1.69	11.20	6	2.1	91.28	11.50	6



ELEMENTS Zr
UNITS ppm
DETECTION LIMIT 0.1
DIGEST 4A/
ANALYTICAL FINISH MS

SAMPLE NUMBERS

0121 C121	325.1
0122 C122	329.5
0123 C123	68.2
0124 C124	225.3
0125 C125	339.7
0126 C126	277.9
0127 C127	445.5
0128 C128	174.8
0129 C129	199.8
0130 C130	207.4
0131 C131	221.8
0132 C132	211.9
0133 C133	199.1
0134 C134	197.2
0135 C135	185.9
0136 C136	206.8
0137 C137	225.2
0138 C138	204.2
0139 C139	204.4
0140 C140	205.0
0141 C141	205.0
0142 C142	195.8
0143 C143	189.6
0144 C144	191.8
0145 C145	182.9
0146 C146	182.9
0147 C147	188.1

CHECKS

0001 C004	
0002 C043	
0003 C079	
0004 C106	
0005 C127	
0006 C023	176.3
0007 C033	211.8
0008 C071	221.7
0009 C104	180.0
0010 C118	273.0



ELEMENTS	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.05	50	0.5	0.1	0.05	0.01	50	0.02	0.01
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343	0.179									
0002 KLEN75226	0.057									
0003 KLEN74358	4.670									
0004 KLEN79276	2.588									
0005 KLEN81905	0.727									
0006 KLEN80376	1.913									
0007 AMIS0084		5.59	3.08%	94.5	872.9	0.88	0.13	6.75%	17.33	40.74
0008 OREAS 282		0.63	3.09%	2405.0	102.0	0.95	0.98	17.96%	1.17	38.54
0009 OREAS 503c		0.89	7.71%	36.3	986.0	2.75	0.64	2.68%	0.20	67.31
0010 OREAS 45f		0.08	10.56%	9.8	205.5	1.21	0.22	994	X	30.46
0011 OREAS 45h		0.13	8.52%	18.4	341.4	1.25	0.18	1476	0.03	25.96
0012 OREAS 282		0.67	3.14%	2465.6	102.9	0.93	0.93	18.76%	1.18	39.06
BLANKS										
0001 Control Blank	0.010									
0002 Control Blank	X									
0003 Control Blank	0.035									
0004 Control Blank	X									
0005 Control Blank	X									
0006 Control Blank	X									
0007 Control Blank		X	X	X	X	X	X	X	X	X
0008 Control Blank		X	127	X	0.1	X	X	51	X	0.03
0009 Control Blank		X	X	X	0.3	X	0.01	X	X	0.02
0010 Control Blank		X	X	X	X	X	0.02	X	X	X
0011 Control Blank		X	X	X	0.2	X	X	X	X	X
0012 Control Blank		X	X	X	X	X	X	X	X	X



ELEMENTS	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
DETECTION LIMIT	0.1	1	0.05	0.5	0.01	0.01	0.01	0.01	0.05	0.01
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343										
0002 KLEN75226										
0003 KLEN74358										
0004 KLEN79276										
0005 KLEN81905										
0006 KLEN80376										
0007 AMIS0084	8.7	151	1.71	67.1	1.60	1.10	0.62	1.61	8.23	2.45
0008 OREAS 282	3.6	33	8.63	20.0	2.66	1.46	0.70	1.13	7.33	3.15
0009 OREAS 503c	14.5	81	10.67	5402.3	4.59	2.50	1.23	5.36	18.77	4.95
0010 OREAS 45f	43.8	443	3.94	365.3	2.35	1.38	0.64	15.48	28.08	2.43
0011 OREAS 45h	88.1	654	2.52	813.2	2.56	1.45	0.68	21.17	21.97	2.46
0012 OREAS 282	3.7	29	8.58	19.6	2.70	1.49	0.71	1.15	7.58	3.21
BLANKS										
0001 Control Blank										
0002 Control Blank										
0003 Control Blank										
0004 Control Blank										
0005 Control Blank										
0006 Control Blank										
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	X	3	X	0.6	0.02	0.01	X	X	X	0.01
0009 Control Blank	X	X	X	X	0.01	0.01	X	X	X	0.02
0010 Control Blank	X	X	X	X	0.01	X	X	X	X	0.01
0011 Control Blank	X	X	X	X	X	X	X	X	X	X
0012 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	Ge	Hf	Ho	In	K	La	Li	Lu	Mg	Mn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.05	0.01	0.01	20	0.01	0.1	0.01	20	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343										
0002 KLEN75226										
0003 KLEN74358										
0004 KLEN79276										
0005 KLEN81905										
0006 KLEN80376										
0007 AMIS0084	1.2	1.66	0.33	0.05	1.74%	19.53	14.9	0.15	3.65%	501
0008 OREAS 282	0.3	1.78	0.53	0.07	1.79%	20.65	21.8	0.19	3.46%	258
0009 OREAS 503c	1.6	2.49	0.90	0.09	3.18%	33.27	31.5	0.35	1.55%	553
0010 OREAS 45f	1.4	4.48	0.47	0.11	2326	16.66	20.5	0.20	2447	231
0011 OREAS 45h	1.0	3.83	0.51	0.11	2150	13.47	14.1	0.22	2610	409
0012 OREAS 282	0.4	1.63	0.52	0.06	1.84%	21.19	21.9	0.20	3.54%	263
BLANKS										
0001 Control Blank										
0002 Control Blank										
0003 Control Blank										
0004 Control Blank										
0005 Control Blank										
0006 Control Blank										
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	X	X	X	X	47	0.03	X	X	30	3
0009 Control Blank	X	X	X	X	49	0.02	X	X	30	1
0010 Control Blank	X	X	X	X	36	X	X	X	X	X
0011 Control Blank	X	X	X	X	X	0.02	X	X	X	X
0012 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	Re
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	20	0.05	0.01	0.5	50	0.5	0.01	0.05	0.002
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343										
0002 KLEN75226										
0003 KLEN74358										
0004 KLEN79276										
0005 KLEN81905										
0006 KLEN80376										
0007 AMIS0084	2.0	2104	4.34	17.04	12.2	283	2019.8	4.48	72.06	0.003
0008 OREAS 282	13.7	642	5.92	18.17	22.2	311	19.5	4.70	126.67	0.023
0009 OREAS 503c	341.7	2.06%	16.85	29.09	38.8	982	21.3	7.51	185.67	0.006
0010 OREAS 45f	2.3	681	24.25	13.28	253.3	306	13.9	3.56	32.44	X
0011 OREAS 45h	1.6	965	15.89	12.01	429.9	269	11.8	3.01	24.51	X
0012 OREAS 282	13.8	670	5.88	18.81	22.8	320	19.5	4.79	131.10	0.024
BLANKS										
0001 Control Blank										
0002 Control Blank										
0003 Control Blank										
0004 Control Blank										
0005 Control Blank										
0006 Control Blank										
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	0.2	X	X	0.02	0.9	X	X	0.03	0.06	X
0009 Control Blank	X	X	X	0.02	X	X	X	0.02	0.11	X
0010 Control Blank	X	24	X	X	X	X	X	0.02	X	X
0011 Control Blank	X	X	X	X	X	X	X	0.01	X	X
0012 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te
UNITS	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.05	0.1	0.5	0.01	0.1	0.05	0.01	0.01	0.2
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343										
0002 KLEN75226										
0003 KLEN74358										
0004 KLEN79276										
0005 KLEN81905										
0006 KLEN80376										
0007 AMIS0084	0.18	9.64	4.1	0.9	3.20	1.7	67.31	0.33	0.32	X
0008 OREAS 282	0.70	15.27	4.1	2.9	3.46	1.6	284.73	0.43	0.46	0.3
0009 OREAS 503c	0.58	3.67	13.6	3.1	5.72	3.4	346.50	1.27	0.77	0.4
0010 OREAS 45f	0.06	0.64	38.9	2.3	2.71	2.8	26.09	1.59	0.38	X
0011 OREAS 45h	0.07	0.57	62.3	2.4	2.57	2.1	29.33	1.08	0.41	X
0012 OREAS 282	0.74	15.51	4.1	2.3	3.41	1.5	291.91	0.43	0.46	0.3
BLANKS										
0001 Control Blank										
0002 Control Blank										
0003 Control Blank										
0004 Control Blank										
0005 Control Blank										
0006 Control Blank										
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	X	X	X	X	0.03	X	0.15	X	0.01	X
0009 Control Blank	X	X	X	X	0.02	X	0.11	X	X	X
0010 Control Blank	X	X	X	X	0.01	X	X	X	X	X
0011 Control Blank	X	X	X	X	X	X	X	X	X	X
0012 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.01	5	0.02	0.01	0.01	1	0.1	0.05	0.01	1
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS
STANDARDS										
0001 KLEN74343										
0002 KLEN75226										
0003 KLEN74358										
0004 KLEN79276										
0005 KLEN81905										
0006 KLEN80376										
0007 AMIS0084	6.20	1170	0.71	0.13	1.89	93	0.8	9.73	0.88	5064
0008 OREAS 282	5.73	1603	29.20	0.22	7.57	108	27.3	15.83	1.32	127
0009 OREAS 503c	17.14	4569	0.89	0.36	4.82	129	4.5	22.89	2.38	91
0010 OREAS 45f	10.29	1.14%	0.22	0.20	2.08	260	1.3	10.95	1.33	36
0011 OREAS 45h	7.87	9471	0.16	0.21	1.73	265	1.0	11.23	1.51	43
0012 OREAS 282	5.72	1677	29.24	0.22	7.34	114	27.2	16.13	1.36	128
BLANKS										
0001 Control Blank										
0002 Control Blank										
0003 Control Blank										
0004 Control Blank										
0005 Control Blank										
0006 Control Blank										
0007 Control Blank	X	X	X	X	X	X	X	X	X	X
0008 Control Blank	0.02	6	X	X	0.02	X	X	0.06	0.01	X
0009 Control Blank	0.03	7	X	X	0.02	X	X	X	0.01	1
0010 Control Blank	0.02	X	X	X	X	X	X	X	X	X
0011 Control Blank	0.01	X	X	X	X	X	X	X	X	X
0012 Control Blank	X	X	X	X	X	3	X	X	X	X



ELEMENTS	Zr
UNITS	ppm
DETECTION LIMIT	0.1
DIGEST	4A/
ANALYTICAL FINISH	MS
STANDARDS	

0001 KLEN74343

0002 KLEN75226

0003 KLEN74358

0004 KLEN79276

0005 KLEN81905

0006 KLEN80376

0007 AMIS0084 61.2

0008 OREAS 282 55.5

0009 OREAS 503c 81.2

0010 OREAS 45f 169.0

0011 OREAS 45h 130.4

0012 OREAS 282 62.0

BLANKS

0001 Control Blank

0002 Control Blank

0003 Control Blank

0004 Control Blank

0005 Control Blank

0006 Control Blank

0007 Control Blank X

0008 Control Blank 0.3

0009 Control Blank 0.2

0010 Control Blank 0.3

0011 Control Blank 0.3

0012 Control Blank X



METHOD CODE DESCRIPTION

Method Code Date Tested	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
4A/MS 05/03/24 13:03	Intertek Genalysis Townsville 3244 20462 Multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids in Teflon Tubes. Analysed by Inductively Coupled Plasma Mass Spectrometry.	MPL_W002, MS_IM_001(Per), *(AdI)
FA25/OE 05/03/24 08:54	Intertek Genalysis Townsville 3244 20462 25g Lead collection fire assay. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	FA_IM_001, GL_W006, ICP_IM_001

* Denotes not on Scope of Accreditation