



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

CERTIFICATE PH18134486

Project: THOMAS CREEK

P.O. No.: SSF001

This report is for 94 Drill Core samples submitted to our lab in Perth, WA, Australia
on 7-JUN-2018.

The following have access to data associated with this certificate:

ANDY RUST

Page: 1

Total # Pages: 4 (A - D)

Plus Appendix Pages

Finalized Date: 2-JUL-2018

This copy reported on 5-JUL-2018

Account: ACCELE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRSPEC-20	Spectral Scan VNIR and SWIR
CRU-31	Fine crushing - 70% <2mm
SPLIT-D	Create D Split
CRU-QC	Crushing QC Test
SAM-COR01	Sample Core from Boxes - Regular
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-AA25	Ore Grade Au 30g FA AA finish AAS

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 PH18134486

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA25	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Pass75um	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TCD001		2.11	93.1	0.01	0.09	7.80	6.8	2500	2.15	0.16	0.30	<0.02	117.5	30.3	33	1.12
TCD002		2.16		0.09	0.34	7.24	15.5	850	2.43	0.57	0.99	0.03	134.0	205	100	1.79
TCD003		1.96		<0.01	0.31	8.71	8.8	640	1.79	0.13	1.30	<0.02	58.8	46.6	69	2.72
TCD004		2.12		<0.01	0.11	8.09	13.1	740	1.67	0.41	1.15	<0.02	93.9	149.0	94	3.31
TCD005		2.22		<0.01	0.24	8.16	10.3	650	1.48	0.47	0.87	<0.02	50.7	98.2	113	2.71
TCD006		2.14		<0.01	0.14	7.85	10.8	480	1.43	0.40	0.77	0.03	35.8	103.0	111	1.69
TCD007		2.42		<0.01	0.12	7.95	8.0	420	1.32	0.27	0.78	<0.02	54.2	58.5	95	2.05
TCD008		2.09		<0.01	0.11	7.77	7.2	520	1.47	0.30	1.26	<0.02	42.1	58.8	92	3.64
TCD009		2.24		<0.01	0.05	7.56	7.1	800	1.44	0.21	1.49	0.03	63.8	55.0	115	4.34
TCD010		2.00		<0.01	0.68	7.36	8.8	1020	1.31	0.30	1.14	<0.02	142.5	70.9	141	2.79
TCD011		2.34		<0.01	0.07	7.50	8.0	1410	1.42	0.19	0.99	<0.02	52.3	45.2	69	2.09
TCD012		2.08		<0.01	0.05	7.79	6.3	2350	1.43	0.17	0.28	<0.02	54.5	17.0	31	1.01
TCD013		2.24		<0.01	0.53	7.48	6.5	2330	1.40	0.24	0.21	<0.02	46.3	21.3	32	1.05
TCD014		1.95		<0.01	0.03	7.55	6.2	2560	1.04	0.08	0.18	<0.02	45.3	19.3	29	0.99
TCD015		2.21		<0.01	0.06	7.98	6.9	2530	1.28	0.09	0.21	<0.02	52.7	18.7	33	1.06
TCD016		1.92		<0.01	0.03	7.64	7.6	2390	1.44	0.11	0.28	<0.02	56.0	15.1	34	1.05
TCD017		1.75		<0.01	0.08	7.50	12.4	1760	1.62	0.23	0.32	<0.02	154.5	76.2	85	1.15
TCD018		2.46		<0.01	0.10	7.56	12.2	690	1.31	0.29	0.59	<0.02	107.0	68.8	129	1.63
TCD019		1.89		<0.01	0.07	7.67	11.6	820	1.23	0.37	0.79	<0.02	64.9	79.1	127	1.71
TCD020		1.74		<0.01	0.07	7.66	10.9	710	1.45	0.21	0.99	<0.02	76.7	68.6	126	2.76
TCD021		2.44		<0.01	0.06	7.48	9.4	800	1.44	0.24	1.02	<0.02	82.9	88.4	131	3.29
TCD022		1.96		0.01	0.06	7.41	9.6	1050	1.27	0.19	0.85	0.02	227	139.5	165	2.92
TCD023		2.07		<0.01	0.06	7.53	8.1	720	1.48	0.25	1.20	<0.02	81.7	43.1	139	3.68
TCD024		2.29		<0.01	0.09	7.79	10.1	690	1.35	0.36	0.96	<0.02	97.4	66.9	133	2.27
TCD025		2.26		<0.01	0.12	7.51	11.7	710	1.29	0.38	0.98	0.02	95.9	81.3	113	2.31
TCD026		1.75		<0.01	0.05	7.73	11.9	710	1.38	0.19	1.26	<0.02	83.7	46.5	107	2.15
TCD027		2.10		<0.01	0.08	7.92	8.2	750	1.24	0.18	1.01	0.04	82.7	51.8	113	2.37
TCD028		2.17		<0.01	0.08	7.39	10.5	1000	1.37	0.26	0.97	<0.02	165.5	73.2	113	2.41
TCD029		1.97		<0.01	0.11	7.42	11.4	1110	1.27	0.31	0.84	0.02	289	95.0	82	2.47
TCD030		1.78		<0.01	0.13	7.16	11.9	1030	1.25	0.35	0.79	<0.02	120.0	113.5	89	2.69
TCD031		2.39		<0.01	0.13	6.46	16.4	960	1.23	0.33	0.95	<0.02	149.5	113.0	94	3.49
TCD032		2.02		0.01	0.10	6.61	15.1	820	1.17	0.35	0.91	0.08	111.0	113.0	101	3.20
TCD033		1.95		<0.01	0.09	7.34	8.5	1550	1.05	0.15	0.74	0.07	160.0	58.4	114	2.22
TCD034		2.04		0.01	0.12	7.33	17.3	1030	1.29	0.31	1.31	0.02	208	121.5	117	1.94
TCD035		2.14		0.02	0.08	7.44	12.3	1180	1.47	0.23	1.58	<0.02	83.1	71.6	92	2.94
TCD036		1.95		0.01	0.25	7.08	9.9	1140	1.41	0.28	1.50	0.02	142.5	107.0	93	3.21
TCD037		2.13		0.02	0.07	7.33	9.3	1750	1.44	0.22	1.24	0.02	>500	79.6	82	3.20
TCD038		2.18		0.01	0.05	7.90	8.0	1410	1.33	0.24	1.79	<0.02	244	51.0	84	2.81
TCD039		2.00		0.01	0.06	7.94	6.6	1050	1.48	0.22	1.75	<0.02	208	55.6	68	4.54
TCD040		2.79		0.01	0.08	7.50	7.0	1430	1.22	0.23	1.04	<0.02	295	69.5	80	2.39



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD001		386	3.32	15.65	0.13	3.3	0.022	7.52	64.5	10.5	0.92	361	2.72	1.02	19.1
TCD002		1760	8.03	17.50	0.14	3.7	0.056	3.16	76.9	23.2	1.96	656	25.0	1.46	113.5
TCD003		118.0	5.49	17.45	0.15	3.0	0.027	2.22	34.2	32.0	2.63	887	5.38	1.88	55.1
TCD004		32.9	8.59	17.55	0.13	3.6	0.028	2.46	50.9	26.4	2.43	667	4.55	1.82	119.0
TCD005		34.1	7.92	16.10	0.10	3.8	0.025	2.34	27.7	26.5	2.48	642	3.09	2.23	63.4
TCD006		122.5	8.30	16.00	0.08	4.0	0.040	2.05	19.5	25.4	2.37	555	5.59	3.09	98.4
TCD007		66.8	6.52	16.00	0.09	3.5	0.036	1.82	29.3	25.7	2.50	529	3.84	3.00	70.8
TCD008		28.8	7.45	15.60	0.09	3.8	0.024	2.09	23.1	23.7	2.23	480	2.27	2.12	53.7
TCD009		19.7	7.50	15.55	0.13	3.9	0.022	2.65	33.0	23.5	2.47	420	2.42	1.55	31.0
TCD010		21.7	8.17	15.45	0.15	3.5	0.025	2.88	74.3	23.3	2.44	564	2.38	1.52	42.0
TCD011		35.5	6.67	15.15	0.11	3.3	0.023	4.15	29.0	23.4	2.20	635	1.54	1.35	34.2
TCD012		154.5	3.61	16.10	0.10	3.6	0.023	7.60	29.4	12.7	1.10	406	1.24	0.98	23.3
TCD013		118.5	3.68	15.40	0.11	3.5	0.025	7.53	26.5	13.3	1.09	469	1.74	0.82	25.6
TCD014		19.4	3.76	14.05	0.10	3.3	0.029	8.23	24.6	12.0	1.00	484	1.29	0.46	21.1
TCD015		61.9	4.03	15.70	0.12	3.6	0.030	7.66	28.7	13.8	1.15	545	1.29	0.71	24.1
TCD016		169.5	3.61	14.25	0.10	3.4	0.025	6.48	30.5	12.1	1.16	556	1.66	0.89	24.2
TCD017		62.1	6.51	16.45	0.20	3.6	0.048	4.97	85.6	19.5	1.92	694	7.63	1.45	68.8
TCD018		27.6	8.55	17.15	0.17	3.5	0.038	2.25	59.2	23.0	2.58	764	5.60	2.45	73.5
TCD019		37.1	7.35	15.00	0.11	3.9	0.031	2.51	36.0	21.8	2.41	707	1.98	2.06	55.3
TCD020		28.3	7.84	16.15	0.11	3.9	0.026	2.38	43.0	27.2	2.71	793	2.01	1.64	44.5
TCD021		37.7	7.85	16.05	0.14	4.0	0.027	2.64	47.2	24.9	2.56	679	1.84	1.35	53.7
TCD022		487	9.46	17.50	0.22	3.6	0.034	3.15	133.5	28.8	3.05	792	3.95	1.23	71.0
TCD023		23.2	7.27	14.95	0.13	3.7	0.022	2.51	45.1	25.3	2.63	675	0.78	1.59	42.5
TCD024		28.2	7.72	15.85	0.14	3.9	0.033	2.44	54.6	20.6	2.26	681	2.98	2.55	89.2
TCD025		38.6	7.83	15.65	0.14	3.9	0.031	2.45	55.1	22.8	2.26	783	1.85	2.30	102.0
TCD026		69.5	6.27	15.65	0.12	3.9	0.042	2.32	47.2	25.0	2.61	989	1.44	2.63	61.4
TCD027		60.7	5.86	15.95	0.12	3.7	0.031	2.60	47.0	28.1	2.54	982	3.20	2.38	55.9
TCD028		99.9	9.22	16.75	0.17	3.7	0.041	3.09	94.1	28.6	3.04	999	5.65	1.65	81.4
TCD029		93.9	7.78	17.65	0.26	3.9	0.038	3.22	167.0	35.0	3.61	1010	6.43	1.48	102.5
TCD030		36.1	8.71	14.95	0.15	3.6	0.039	3.23	67.9	26.5	2.82	822	5.80	1.70	141.5
TCD031		61.7	10.50	14.45	0.19	3.0	0.033	2.85	83.5	30.9	3.52	973	3.86	1.17	183.0
TCD032		182.0	9.78	14.10	0.16	3.2	0.038	2.66	62.8	33.1	3.60	924	2.61	1.36	188.5
TCD033		214	7.12	14.95	0.18	3.6	0.036	4.08	92.4	26.1	3.15	782	11.45	1.32	87.5
TCD034		409	8.79	15.10	0.22	3.1	0.038	4.29	120.0	23.6	3.11	783	6.96	1.22	194.5
TCD035		384	8.75	13.85	0.14	2.9	0.041	3.83	48.5	23.4	2.95	759	2.04	1.49	88.4
TCD036		192.0	9.60	14.80	0.18	3.2	0.036	3.80	83.4	24.9	3.26	727	2.07	1.25	119.0
TCD037		572	9.46	17.40	0.42	2.4	0.040	4.82	331	27.7	3.29	744	6.70	0.79	93.5
TCD038		320	7.94	16.45	0.29	2.5	0.056	4.52	150.0	27.8	3.56	820	2.30	1.16	74.4
TCD039		459	7.96	16.40	0.22	2.6	0.036	3.60	128.0	25.3	3.01	728	4.50	1.48	68.5
TCD040		259	7.32	17.35	0.32	2.7	0.030	4.01	175.0	26.0	2.51	642	4.48	1.62	81.5



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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD001		550	6.4	209	0.002	0.17	0.66	7.3	<1	2.5	136.0	1.15	<0.05	16.55	0.212	0.43
TCD002		530	44.9	162.0	0.020	1.61	0.73	22.1	1	19.1	147.0	0.58	0.27	9.96	0.297	0.33
TCD003		420	58.0	158.5	0.002	0.28	0.57	22.6	<1	7.4	193.0	0.49	<0.05	10.65	0.382	0.28
TCD004		550	10.9	169.0	0.003	1.63	0.65	29.3	1	6.4	180.0	0.47	0.15	10.05	0.368	0.30
TCD005		540	22.8	159.0	0.002	1.44	0.65	24.2	1	4.0	159.5	0.47	0.10	10.40	0.373	0.29
TCD006		610	5.8	124.0	0.003	1.20	0.61	25.3	1	4.1	134.5	0.46	0.12	9.59	0.346	0.28
TCD007		380	4.6	112.0	0.002	0.65	0.55	26.8	1	3.5	131.0	0.43	0.09	9.57	0.351	0.22
TCD008		500	16.6	146.0	0.002	0.85	0.47	22.8	<1	2.0	177.5	0.42	0.07	10.45	0.343	0.24
TCD009		500	8.7	157.5	<0.002	0.71	0.44	23.8	1	2.3	182.5	0.45	0.07	8.96	0.354	0.23
TCD010		490	17.2	149.5	<0.002	0.94	0.55	23.3	<1	3.0	148.5	0.42	0.09	10.85	0.343	0.22
TCD011		520	5.1	154.5	<0.002	0.38	0.61	19.8	<1	3.2	154.5	0.66	0.05	11.65	0.323	0.28
TCD012		570	3.4	223	<0.002	0.07	0.60	9.4	<1	2.7	145.0	1.09	<0.05	16.85	0.223	0.44
TCD013		510	3.0	226	0.002	0.11	0.58	9.2	<1	3.3	107.0	1.06	<0.05	16.30	0.215	0.48
TCD014		520	2.5	247	<0.002	0.10	0.55	8.7	<1	3.6	91.6	1.02	<0.05	15.60	0.212	0.53
TCD015		560	2.5	244	<0.002	0.08	0.61	10.1	<1	3.4	104.5	1.09	<0.05	16.30	0.228	0.55
TCD016		540	2.9	189.0	<0.002	0.13	0.57	9.2	<1	2.7	133.0	1.01	<0.05	15.30	0.223	0.47
TCD017		590	3.6	145.0	0.003	0.70	0.72	18.0	1	10.5	124.0	0.80	0.10	12.80	0.292	0.29
TCD018		570	8.4	119.0	0.002	0.76	0.75	23.5	<1	6.6	119.5	0.44	0.07	10.90	0.351	0.23
TCD019		510	9.6	138.5	<0.002	1.38	0.80	21.0	1	3.5	146.0	0.48	0.12	9.75	0.371	0.26
TCD020		510	10.1	147.5	<0.002	1.00	0.78	25.0	1	2.5	168.5	0.47	0.06	9.01	0.362	0.24
TCD021		460	22.1	152.5	0.002	0.97	0.69	22.1	<1	3.1	158.0	0.46	0.08	8.56	0.359	0.22
TCD022		470	4.3	144.0	0.005	1.11	0.69	24.8	<1	4.5	143.5	0.47	0.09	9.40	0.360	0.27
TCD023		480	14.6	142.5	<0.002	0.78	0.60	23.0	<1	1.7	164.0	0.45	0.05	10.40	0.343	0.25
TCD024		530	20.1	128.0	0.002	1.22	0.63	22.9	1	3.3	148.0	0.50	0.11	9.15	0.354	0.25
TCD025		600	3.9	142.5	0.002	0.95	0.64	19.1	1	3.2	171.0	0.43	0.11	9.97	0.328	0.28
TCD026		690	4.2	128.0	<0.002	0.36	0.74	31.5	<1	3.9	168.0	0.49	0.09	11.90	0.355	0.25
TCD027		220	9.2	147.5	<0.002	0.40	0.57	20.9	<1	3.2	193.5	0.49	0.06	12.75	0.336	0.25
TCD028		640	3.2	138.0	0.002	0.63	0.67	30.0	1	4.4	152.0	0.48	0.10	11.45	0.331	0.28
TCD029		770	5.9	137.5	0.003	0.83	0.64	26.7	<1	4.5	148.5	0.48	0.15	18.15	0.322	0.27
TCD030		460	7.5	147.0	0.002	1.30	0.64	18.4	1	4.3	158.5	0.47	0.20	13.00	0.321	0.26
TCD031		1300	7.0	114.0	0.003	1.39	0.61	21.8	1	4.0	118.0	0.46	0.16	19.90	0.314	0.21
TCD032		1100	7.1	121.0	0.002	1.40	0.65	20.8	1	3.2	133.5	0.44	0.15	14.40	0.326	0.21
TCD033		280	3.4	145.0	0.003	0.58	0.58	25.4	<1	4.3	175.0	0.48	0.06	10.55	0.348	0.27
TCD034		960	4.0	171.5	0.004	1.67	0.91	31.8	1	3.5	204	0.46	0.18	11.15	0.330	0.28
TCD035		610	4.5	186.0	0.002	0.79	0.72	38.1	<1	3.2	258	0.46	0.11	12.00	0.336	0.31
TCD036		660	3.7	168.0	0.003	1.10	0.64	47.5	1	3.8	196.5	0.47	0.17	14.85	0.341	0.26
TCD037		840	4.0	171.0	0.003	0.75	0.75	43.9	<1	6.5	177.5	0.49	0.12	12.30	0.337	0.29
TCD038		440	6.4	196.5	0.002	0.47	0.73	47.3	<1	4.7	241	0.50	0.09	13.85	0.365	0.31
TCD039		390	10.2	198.0	0.002	0.46	0.67	37.1	<1	4.1	253	0.52	0.08	12.60	0.368	0.29
TCD040		430	6.1	161.0	0.002	0.58	0.80	36.2	<1	5.1	210	0.54	0.11	12.50	0.350	0.31



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CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD001		7.2	63	1.1	17.9	28	106.0	95.6
TCD002		5.2	154	1.8	22.4	61	127.5	
TCD003		4.0	91	1.4	13.8	74	108.0	
TCD004		5.2	201	1.3	16.1	60	123.5	
TCD005		3.8	168	1.1	12.1	56	139.5	
TCD006		4.5	197	1.2	10.5	54	141.5	
TCD007		4.6	178	1.1	11.9	47	132.0	
TCD008		3.0	189	1.1	10.2	35	135.0	
TCD009		2.8	181	0.9	12.4	29	141.0	
TCD010		3.0	160	0.9	17.5	41	137.0	
TCD011		4.6	165	0.8	15.9	48	119.0	
TCD012		8.2	75	1.0	17.4	30	122.0	
TCD013		8.4	74	1.5	14.9	34	117.0	
TCD014		8.4	72	1.8	13.7	35	109.5	
TCD015		8.8	81	1.8	15.4	40	119.5	
TCD016		7.6	77	1.8	14.4	41	110.5	
TCD017		6.6	151	2.9	20.1	65	119.0	
TCD018		4.7	230	2.3	15.5	73	131.5	
TCD019		4.9	159	1.7	13.2	76	144.0	
TCD020		3.4	173	1.4	13.6	86	146.5	
TCD021		3.5	161	1.0	14.1	61	144.0	
TCD022		3.3	181	0.8	15.2	91	134.0	
TCD023		3.2	160	0.7	12.9	63	133.5	
TCD024		3.8	164	1.5	13.6	71	139.0	
TCD025		4.2	156	1.9	13.5	84	137.0	
TCD026		4.8	122	2.1	17.3	89	138.5	
TCD027		5.4	97	1.8	11.9	89	138.5	
TCD028		4.9	132	2.3	20.3	87	135.0	
TCD029		6.0	128	2.1	21.0	105	139.5	
TCD030		6.4	100	1.6	14.1	74	129.0	
TCD031		4.9	122	1.4	15.6	90	109.5	
TCD032		4.4	128	1.7	13.3	124	116.0	
TCD033		5.4	125	1.4	12.6	103	127.5	
TCD034		6.1	129	2.0	16.7	92	106.0	
TCD035		5.1	133	2.3	15.4	76	108.5	
TCD036		7.1	157	2.1	18.0	78	110.5	
TCD037		10.5	146	3.8	26.3	84	92.8	
TCD038		6.3	155	3.6	20.8	81	88.0	
TCD039		8.8	145	1.9	19.8	58	99.8	
TCD040		7.6	120	3.5	26.3	78	104.0	



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CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-AA25 Au ppm 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
TCD041		1.79		0.01	0.09	8.32	8.5	1480	1.30	0.29	2.03	<0.02	75.3	44.1	66	3.03
TCD042		1.90		0.01	0.05	7.89	6.5	1110	1.46	0.23	2.02	<0.02	132.5	47.0	90	3.58
TCD043		2.74		0.08	0.97	5.27	31.9	70	1.84	1.73	1.70	0.10	>500	2500	61	1.91
TCD044		2.66		0.04	0.49	6.05	35.8	70	2.42	1.40	2.44	0.10	>500	3330	58	0.85
TCD045		2.21		0.03	0.37	5.92	24.3	80	2.62	0.85	2.14	0.20	>500	1140	89	1.09
TCD046		2.14		0.03	0.23	6.95	14.4	1130	1.64	0.44	1.21	0.37	292	127.5	117	2.27
TCD047		2.28		<0.01	0.25	7.40	8.1	640	1.53	0.29	1.17	0.02	141.0	77.1	102	1.49
TCD048		2.07		<0.01	0.08	6.71	8.1	870	1.14	0.28	1.00	0.02	103.0	72.3	95	2.19
TCD049		1.79		0.01	0.17	7.08	8.7	800	1.32	0.21	1.08	0.03	312	178.0	119	1.91
TCD050		1.91		0.11	0.65	6.33	23.0	190	1.75	1.03	2.18	0.17	>500	1520	99	1.02
TCD051		2.18	94.0	0.02	0.10	6.91	5.6	1480	1.00	0.17	0.72	0.02	169.5	70.8	128	1.74
TCD052		1.84		0.01	0.07	7.68	4.9	800	1.09	0.12	0.81	<0.02	125.0	45.5	110	1.55
TCD053		1.86		0.03	0.19	7.68	8.3	1170	1.24	0.24	1.01	0.02	318	72.0	106	2.14
TCD054		2.20		0.02	0.07	7.94	5.9	1150	1.19	0.11	1.01	<0.02	203	41.7	120	1.79
TCD055		2.32		0.01	0.34	7.92	8.1	1190	1.15	0.21	1.20	0.06	329	71.8	98	2.58
TCD056		1.95		0.07	0.89	7.80	9.6	1060	1.23	0.24	1.20	0.18	484	153.0	129	2.26
TCD057		1.90		<0.01	0.09	8.53	9.4	1110	1.32	0.10	1.67	0.02	102.0	44.7	48	3.18
TCD058		2.56		0.14	0.61	6.26	22.9	60	0.95	0.91	0.75	0.11	500	658	84	1.52
TCD059		1.94		<0.01	0.19	7.18	9.9	1360	1.31	0.50	0.67	<0.02	108.0	92.3	75	1.82
TCD060		2.09		0.01	0.03	7.61	5.7	2840	1.04	0.08	0.40	<0.02	85.3	11.3	33	0.93
TCD061		1.94		<0.01	0.06	7.40	6.1	2800	1.17	0.10	0.35	0.03	90.6	17.2	44	0.83
TCD062		2.02		0.01	0.05	7.44	5.7	2190	1.43	0.10	0.36	<0.02	62.4	7.7	34	0.87
TCD063		2.15		0.01	0.15	6.99	10.6	1140	0.97	0.27	0.65	0.02	129.5	123.0	110	1.95
TCD064		1.78		0.01	0.07	7.39	7.9	1850	0.90	0.15	0.85	<0.02	126.0	80.0	114	2.23
TCD065		1.96		0.02	0.10	7.27	7.7	1550	0.96	0.22	0.82	<0.02	130.0	75.8	126	1.86
TCD066		2.06		<0.01	0.08	7.84	7.4	1760	0.92	0.31	0.82	<0.02	23.0	64.6	74	1.68
TCD067		1.99		<0.01	0.09	7.36	7.3	1370	0.90	0.39	0.84	<0.02	67.2	67.1	79	1.54
TCD068		2.33		<0.01	0.10	8.38	7.9	680	1.32	0.21	1.00	0.02	60.0	46.2	118	2.79
TCD069		1.90		0.01	0.08	7.78	9.4	640	1.34	0.26	1.47	<0.02	122.0	48.6	126	2.96
TCD070		2.07		<0.01	0.10	7.58	9.4	920	1.06	0.23	1.07	0.03	212	111.5	173	2.77
TCD071		2.32		0.02	0.13	7.30	9.2	1370	0.96	0.24	1.26	0.03	75.7	50.0	123	1.92
TCD072		1.89		<0.01	0.04	7.69	7.8	1280	0.89	0.17	1.00	<0.02	175.5	40.9	103	1.32
TCD073		2.13		<0.01	0.10	7.69	7.6	940	0.98	0.24	0.91	0.02	82.0	56.8	98	1.28
TCD074		2.31		0.02	0.13	7.60	7.6	2390	0.66	0.28	0.71	<0.02	65.1	67.4	84	1.13
TCD075		1.88		<0.01	0.05	7.64	7.4	1540	0.74	0.27	0.67	<0.02	72.5	57.9	76	1.12
TCD076		2.60		0.02	0.04	7.67	9.4	1960	0.85	0.24	0.78	<0.02	44.6	74.8	98	1.20
TCD077		1.59		0.02	0.09	7.04	15.6	1030	0.95	0.33	1.08	0.02	69.4	149.5	108	2.49
TCD078		1.96		0.02	0.13	7.64	22.1	1360	0.76	0.31	1.00	0.03	60.5	111.0	106	1.94
TCD079		2.22		<0.01	0.03	7.43	8.0	1400	1.08	0.11	1.17	<0.02	19.45	29.3	99	1.70
TCD080		2.08		<0.01	0.02	7.84	6.9	1580	1.00	0.11	0.97	0.02	23.5	23.3	107	1.58



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CERTIFICATE OF ANALYSIS PH18134486

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
TCD041		249	7.97	14.10	0.16	2.0	0.055	4.83	45.7	19.3	2.74	728	0.79	1.32	5.5
TCD042		434	8.31	14.30	0.19	2.4	0.048	3.67	78.3	23.9	3.02	781	2.31	1.32	5.7
TCD043		1250	21.7	17.00	0.52	1.6	0.057	2.26	387	15.4	2.18	547	137.0	0.41	3.6
TCD044		557	18.05	27.8	1.37	2.4	0.077	2.50	1320	17.0	2.13	563	59.7	0.29	5.3
TCD045		800	13.50	17.45	0.49	2.5	0.067	3.69	409	28.8	2.33	701	56.3	0.13	5.5
TCD046		1210	10.60	16.50	0.25	2.8	0.042	4.15	176.0	38.4	3.88	1180	5.69	0.63	7.1
TCD047		245	7.16	15.20	0.15	3.2	0.037	2.74	84.0	25.5	2.96	716	11.30	2.28	6.6
TCD048		162.0	7.93	13.80	0.15	2.8	0.030	3.08	61.3	29.8	3.20	891	4.52	1.52	6.6
TCD049		659	8.45	16.15	0.30	3.1	0.040	2.91	193.0	33.7	3.43	879	8.32	1.61	6.2
TCD050		3120	14.50	22.9	1.09	2.2	0.113	3.68	930	29.7	2.49	695	35.9	0.27	4.4
TCD051		525	7.12	14.20	0.20	3.3	0.031	3.76	102.0	25.0	2.86	703	9.15	1.45	6.1
TCD052		282	6.24	14.95	0.13	3.6	0.038	2.76	75.3	25.0	2.83	730	7.94	2.61	6.9
TCD053		1580	7.59	16.85	0.29	3.4	0.044	3.56	199.5	26.7	2.75	767	11.75	1.87	6.9
TCD054		232	7.13	16.50	0.22	3.6	0.034	3.49	121.0	28.1	2.95	845	5.62	2.23	6.9
TCD055		433	7.62	16.95	0.27	3.0	0.030	3.63	199.5	31.6	3.16	930	8.10	1.61	6.7
TCD056		3850	9.71	19.20	0.38	3.2	0.052	3.54	291	35.4	3.31	970	13.75	1.35	6.7
TCD057		536	7.42	16.50	0.25	2.6	0.024	3.51	60.4	30.3	2.90	966	3.56	1.41	6.5
TCD058		2610	13.30	16.45	0.43	2.9	0.059	4.23	299	21.2	2.54	658	49.7	0.55	6.3
TCD059		322	7.14	14.50	0.15	3.1	0.035	4.35	61.8	20.4	2.10	589	4.77	1.71	7.2
TCD060		151.0	3.87	15.20	0.15	3.4	0.036	8.54	47.8	11.3	1.20	451	1.15	0.37	9.7
TCD061		235	3.65	15.50	0.17	3.2	0.040	7.84	49.5	10.4	1.08	415	2.64	0.53	10.0
TCD062		453	3.41	13.95	0.15	3.2	0.030	7.44	33.9	9.8	1.05	390	1.11	1.04	9.3
TCD063		589	8.25	13.50	0.20	3.1	0.037	5.85	74.5	21.4	2.41	790	5.54	0.61	7.3
TCD064		184.0	5.99	13.70	0.16	3.4	0.027	4.43	72.9	25.6	2.91	688	3.01	1.33	6.3
TCD065		356	5.88	14.40	0.18	3.4	0.038	4.14	73.9	23.3	2.59	613	2.84	1.58	6.2
TCD066		62.5	5.23	13.65	0.09	4.0	0.028	4.98	12.7	18.4	2.19	535	3.78	1.61	6.4
TCD067		26.5	5.09	13.00	0.14	3.9	0.027	3.77	40.3	19.0	2.25	498	2.96	2.05	6.2
TCD068		318	5.70	16.20	0.12	3.4	0.033	2.61	36.3	31.4	3.09	694	4.73	2.69	6.5
TCD069		251	5.77	15.65	0.16	3.3	0.034	2.68	70.3	26.1	2.72	737	9.66	2.08	6.4
TCD070		344	5.68	15.45	0.19	3.4	0.036	2.97	119.0	34.6	3.21	995	24.3	1.78	6.2
TCD071		1000	5.12	14.40	0.13	3.8	0.033	3.46	43.2	26.8	2.68	768	5.34	1.66	6.5
TCD072		49.6	4.57	15.20	0.17	4.2	0.037	3.30	102.0	19.7	2.29	609	5.30	2.51	6.8
TCD073		274	4.28	13.85	0.12	4.3	0.038	2.65	45.4	16.6	1.94	517	8.03	3.01	6.5
TCD074		751	4.62	13.30	0.13	4.0	0.038	5.25	36.3	16.1	1.88	548	17.75	1.38	6.6
TCD075		89.4	4.30	12.25	0.11	4.3	0.032	4.83	41.0	11.2	1.34	424	31.0	2.12	5.8
TCD076		29.9	4.53	13.20	0.11	4.2	0.035	4.73	24.7	13.1	1.57	463	17.35	1.89	6.0
TCD077		130.5	7.20	14.40	0.12	3.7	0.029	3.44	38.8	27.2	2.63	867	13.40	1.43	6.3
TCD078		340	6.03	14.30	0.10	4.0	0.026	5.60	33.9	26.9	2.73	841	8.09	0.81	6.7
TCD079		52.4	4.66	14.50	0.08	4.1	0.022	3.68	10.4	23.2	2.03	759	4.31	1.68	6.0
TCD080		19.1	5.10	14.70	0.10	3.7	0.030	4.28	12.2	28.4	2.31	834	5.40	1.73	5.3



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
TCD041		530	19.7	248	0.002	0.78	0.78	45.6	1	5.7	289	0.45	0.14	11.00	0.327	0.39
TCD042		430	15.8	180.5	<0.002	0.40	0.79	45.7	<1	4.3	249	0.44	0.07	11.65	0.327	0.27
TCD043		520	853	86.6	0.110	>10.0	1.60	61.2	4	16.4	174.0	0.34	0.61	14.85	0.205	0.18
TCD044		750	481	120.0	0.060	>10.0	3.03	69.5	3	15.1	410	0.86	0.52	26.8	0.266	0.28
TCD045		1000	200	161.5	0.029	6.28	1.96	37.4	2	6.4	248	0.44	0.54	13.25	0.303	0.36
TCD046		990	36.4	163.0	0.005	1.43	0.96	35.8	1	4.2	172.5	0.52	0.20	16.10	0.359	0.33
TCD047		540	31.3	138.5	0.004	0.64	0.65	22.5	<1	3.2	135.5	0.51	0.08	11.90	0.341	0.28
TCD048		530	10.0	147.0	0.004	0.93	0.58	25.3	1	3.2	139.5	0.45	0.10	15.90	0.340	0.29
TCD049		520	13.5	137.0	0.007	1.15	0.90	31.7	1	3.4	174.5	0.50	0.14	13.05	0.326	0.26
TCD050		540	142.0	157.5	0.034	7.53	3.76	49.9	2	7.7	489	0.35	0.73	18.80	0.240	0.34
TCD051		230	7.8	141.5	0.003	0.60	0.49	19.7	<1	3.0	136.0	0.46	0.08	9.24	0.317	0.26
TCD052		150	3.6	132.5	0.003	0.36	0.50	20.3	<1	3.1	137.0	0.54	0.08	8.65	0.359	0.24
TCD053		450	5.9	157.0	0.007	0.69	0.83	25.1	<1	4.1	161.5	0.49	0.07	11.15	0.347	0.30
TCD054		300	2.8	144.0	0.002	0.33	0.59	26.1	<1	3.4	139.0	0.52	<0.05	11.70	0.357	0.28
TCD055		600	4.3	175.5	0.005	0.89	0.60	25.6	<1	3.5	177.5	0.49	0.10	13.40	0.367	0.31
TCD056		450	5.3	178.5	0.018	1.81	0.85	32.3	1	5.2	187.0	0.48	0.18	11.20	0.358	0.29
TCD057		550	4.4	184.0	0.002	0.42	0.56	24.4	<1	2.9	221	0.46	<0.05	8.41	0.414	0.31
TCD058		430	11.7	130.0	0.027	6.34	1.78	36.3	3	7.3	121.5	0.48	1.13	13.10	0.319	0.26
TCD059		820	7.4	154.5	0.004	1.39	0.70	16.9	<1	3.2	137.5	0.63	0.16	13.60	0.277	0.28
TCD060		570	2.6	239	<0.002	0.07	0.81	9.8	<1	3.5	128.0	1.14	<0.05	15.65	0.227	0.50
TCD061		530	2.6	220	<0.002	0.14	0.73	9.2	<1	3.2	145.0	1.01	<0.05	16.15	0.214	0.39
TCD062		550	2.3	203	<0.002	0.09	0.77	8.9	<1	2.8	138.0	1.09	<0.05	15.50	0.216	0.40
TCD063		690	7.5	170.5	0.004	1.23	0.65	19.2	1	4.3	126.0	0.52	0.12	13.75	0.311	0.28
TCD064		260	4.7	157.0	0.003	0.65	0.59	23.3	<1	2.4	130.0	0.48	0.09	11.55	0.344	0.30
TCD065		250	4.6	154.0	0.002	0.73	0.62	27.2	<1	2.6	124.5	0.48	0.11	11.80	0.331	0.27
TCD066		250	3.7	181.0	0.006	1.02	0.57	20.3	<1	2.3	141.5	0.50	0.10	13.10	0.357	0.34
TCD067		350	3.2	146.0	0.008	1.34	0.57	19.0	<1	1.8	120.0	0.47	0.14	10.60	0.342	0.28
TCD068		350	3.5	145.0	0.005	0.62	0.64	25.7	<1	2.2	144.0	0.51	<0.05	11.00	0.372	0.26
TCD069		570	6.3	169.0	0.009	0.90	0.55	28.2	<1	1.7	182.0	0.48	0.11	8.66	0.371	0.26
TCD070		280	8.7	142.0	0.007	1.03	0.55	25.7	1	3.0	143.0	0.46	0.08	9.69	0.324	0.24
TCD071		520	6.0	132.5	0.003	0.77	0.53	24.1	<1	2.0	141.5	0.49	0.09	9.91	0.329	0.24
TCD072		490	2.9	120.0	0.003	0.66	0.50	23.7	<1	1.7	118.5	0.51	0.07	11.10	0.375	0.23
TCD073		200	4.7	105.5	0.004	0.81	0.49	21.5	1	1.6	108.5	0.51	0.11	12.15	0.350	0.20
TCD074		390	4.7	151.5	0.009	1.13	0.47	20.1	<1	2.0	126.0	0.50	0.10	12.50	0.363	0.31
TCD075		460	3.4	151.5	0.007	1.13	0.66	17.9	<1	2.3	115.0	0.46	0.12	9.54	0.342	0.31
TCD076		500	3.6	156.0	0.010	0.94	0.50	20.1	<1	2.9	131.5	0.48	0.08	11.05	0.353	0.28
TCD077		1150	5.4	138.0	0.006	1.72	0.60	24.1	1	2.2	138.5	0.49	0.16	12.95	0.363	0.23
TCD078		1200	14.9	164.5	0.009	1.19	0.57	21.3	1	2.9	153.5	0.48	0.15	14.90	0.363	0.29
TCD079		250	4.6	159.5	0.003	0.19	0.44	20.8	<1	2.1	174.0	0.48	<0.05	9.75	0.329	0.29
TCD080		240	2.2	171.0	0.002	0.19	0.43	23.5	<1	1.8	183.0	0.44	<0.05	7.92	0.319	0.33



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
TCD041		6.4	121	2.9	23.5	63	68.7	
TCD042		4.9	131	1.9	18.2	82	86.7	
TCD043		101.5	155	4.4	29.3	56	56.2	
TCD044		8.6	192	1.2	41.6	56	89.5	
TCD045		5.9	158	2.2	18.4	75	95.6	
TCD046		8.1	145	3.8	15.8	153	110.0	
TCD047		5.9	109	1.8	13.5	107	122.5	
TCD048		5.4	114	2.3	11.3	117	111.5	
TCD049		6.7	128	1.9	15.8	128	127.0	
TCD050		7.2	187	2.8	35.3	84	81.2	
TCD051		4.1	123	1.0	12.3	97	116.5	94.8
TCD052		4.7	113	1.5	14.8	105	137.0	
TCD053		4.1	135	1.6	18.1	102	133.5	
TCD054		4.6	127	1.5	16.7	115	135.0	
TCD055		4.9	137	2.0	18.0	114	118.0	
TCD056		6.8	169	2.4	20.8	114	118.0	
TCD057		3.7	174	1.7	13.6	100	97.9	
TCD058		6.1	172	2.1	16.7	72	111.0	
TCD059		7.1	110	3.0	13.5	53	118.5	
TCD060		8.3	78	2.1	16.3	31	113.0	
TCD061		7.5	73	1.9	17.2	29	118.5	
TCD062		7.4	68	1.9	16.3	26	112.0	
TCD063		11.5	113	2.0	12.5	67	121.0	
TCD064		12.9	121	1.2	9.5	69	133.0	
TCD065		12.8	111	1.1	11.1	60	132.5	
TCD066		4.8	101	1.5	7.9	45	157.5	
TCD067		3.7	105	1.5	8.2	44	146.0	
TCD068		5.9	126	1.5	7.2	70	128.5	
TCD069		10.8	135	1.6	15.0	75	122.5	
TCD070		8.2	120	1.8	11.2	97	122.0	
TCD071		4.4	127	1.5	11.4	64	132.0	
TCD072		4.5	141	1.5	11.0	48	160.0	
TCD073		5.7	98	1.5	8.4	42	151.0	
TCD074		9.9	96	1.6	9.6	42	152.5	
TCD075		11.5	87	3.0	12.3	28	160.0	
TCD076		10.3	116	2.4	12.3	28	149.0	
TCD077		5.8	121	2.0	9.0	53	130.0	
TCD078		7.0	124	1.5	10.1	58	144.0	
TCD079		5.2	129	1.1	7.6	50	150.0	
TCD080		3.7	127	1.5	6.9	60	134.0	



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA25	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Pass75um	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TCD081		1.72		<0.01	0.04	7.87	9.7	1740	0.81	0.21	0.85	<0.02	40.6	55.8	87	1.14
TCD082		2.36		<0.01	0.03	7.98	7.5	1150	1.09	0.16	1.21	<0.02	48.1	41.8	121	1.67
TCD083		2.24		<0.01	0.02	7.94	8.4	1280	0.99	0.16	1.23	<0.02	29.2	29.5	128	2.45
TCD084		1.81		<0.01	0.06	7.60	14.7	1790	0.85	0.24	1.08	<0.02	60.7	74.3	131	1.54
TCD085		2.18		<0.01	0.08	6.66	13.0	1890	0.71	0.25	0.72	<0.02	22.6	87.5	146	1.34
TCD086		1.50		<0.01	0.05	7.91	12.6	1880	0.86	0.21	0.91	<0.02	33.1	37.9	94	1.51
TCD087		1.99		0.01	1.29	7.58	11.6	1330	0.69	0.33	0.70	<0.02	30.6	67.5	86	1.13
TCD088		1.69		0.02	0.20	7.41	10.6	1850	0.87	0.17	0.68	0.02	69.6	38.1	93	1.39
TCD089		1.90		<0.01	0.03	7.43	7.4	530	1.22	0.10	1.45	<0.02	94.6	29.2	119	2.33
TCD090		2.58		<0.01	0.13	7.33	7.6	910	1.07	0.26	1.22	<0.02	70.6	39.9	135	2.53
TCD091		1.80		<0.01	0.06	7.68	8.7	1670	0.93	0.13	0.88	<0.02	154.5	44.5	77	1.47
TCD092		2.01		<0.01	0.07	7.45	15.4	1410	0.91	0.13	1.34	<0.02	103.5	47.8	107	1.44
TCD093		2.50		<0.01	0.05	7.14	8.3	1590	0.99	0.13	0.95	0.02	116.0	35.6	121	1.51
TCD094		2.19		<0.01	0.02	7.17	8.8	1640	0.92	0.11	0.99	<0.02	70.8	35.3	120	1.95



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
TCD081		25.4	4.30	12.70	0.09	4.0	0.027	4.62	23.6	16.6	1.61	525	2.29	2.07	5.5	66.5
TCD082		64.0	5.46	15.60	0.11	3.5	0.031	3.52	26.8	23.9	2.28	715	3.79	2.22	7.1	56.7
TCD083		42.3	6.08	14.55	0.10	4.2	0.027	3.91	16.4	22.6	2.16	646	4.07	1.47	6.2	49.7
TCD084		90.3	5.21	14.45	0.12	4.1	0.028	4.70	34.1	20.9	2.07	651	5.13	1.43	6.7	95.0
TCD085		84.5	5.23	12.30	0.08	3.8	0.031	4.55	12.4	16.6	1.79	595	11.55	1.16	6.6	82.2
TCD086		24.7	4.93	13.30	0.10	4.2	0.028	4.99	18.1	13.7	1.65	494	6.87	1.58	6.5	80.9
TCD087		57.0	4.58	12.75	0.10	4.3	0.030	5.64	16.8	14.7	1.59	471	12.15	1.47	6.4	112.0
TCD088		700	4.61	13.25	0.14	4.2	0.031	4.68	40.0	16.2	1.75	472	11.15	1.38	6.5	44.5
TCD089		35.4	5.75	16.80	0.15	4.4	0.028	2.35	53.3	24.9	2.31	603	3.42	1.84	7.1	42.9
TCD090		22.2	6.88	15.20	0.11	4.1	0.021	2.88	38.5	22.4	2.33	643	3.01	1.52	6.7	64.4
TCD091		65.2	4.98	15.45	0.17	4.5	0.035	4.33	89.1	25.3	2.41	819	10.30	1.74	7.3	56.0
TCD092		41.1	5.29	14.95	0.15	3.8	0.040	3.68	57.0	23.0	2.40	757	6.09	1.97	7.1	62.9
TCD093		39.4	5.71	14.85	0.14	3.7	0.038	3.95	65.7	21.0	2.00	686	8.59	1.58	6.7	47.8
TCD094		21.4	6.30	15.25	0.15	4.0	0.027	3.97	39.6	21.9	2.29	661	7.39	1.27	7.1	42.8



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TCD081		850	3.4	165.0	<0.002	0.72	0.52	23.0	<1	2.0	143.0	0.43	0.08	12.60	0.314
TCD082		500	2.3	153.0	0.002	0.38	0.49	24.3	<1	2.2	147.5	0.46	0.05	9.58	0.357
TCD083		560	3.5	185.0	<0.002	0.32	0.51	23.8	<1	1.3	171.0	0.49	<0.05	10.35	0.356
TCD084		1160	5.9	180.0	<0.002	0.81	0.59	20.4	<1	1.9	159.0	0.49	0.09	12.15	0.350
TCD085		630	6.3	154.0	0.004	0.90	0.55	17.8	<1	1.7	133.0	0.48	0.08	11.05	0.322
TCD086		680	3.6	177.5	0.008	0.96	0.60	19.5	1	2.4	153.0	0.47	0.08	10.30	0.375
TCD087		790	5.0	169.5	0.015	1.23	0.50	20.1	<1	3.1	129.5	0.47	0.12	10.10	0.350
TCD088		610	7.5	170.0	0.007	0.40	0.66	19.9	<1	2.3	151.5	0.48	0.06	10.85	0.348
TCD089		570	4.7	148.5	<0.002	0.27	0.61	24.7	<1	1.3	175.0	0.52	<0.05	10.75	0.349
TCD090		490	10.1	136.5	0.002	0.63	0.57	24.5	<1	1.2	150.0	0.46	0.07	11.35	0.352
TCD091		510	3.3	154.5	0.004	0.48	0.61	23.7	<1	1.7	141.5	0.50	0.07	10.25	0.352
TCD092		2360	5.0	134.5	<0.002	0.40	0.61	23.7	<1	2.5	136.5	0.48	0.05	10.70	0.350
TCD093		700	3.2	156.0	0.002	0.27	0.61	20.6	<1	3.1	150.0	0.46	<0.05	11.70	0.314
TCD094		700	2.7	155.0	0.002	0.20	0.57	23.9	<1	1.9	158.5	0.47	<0.05	14.15	0.332



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC
		U	V	W	Y	Zn	Zr	Pass2mm
		ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	1	0.1	0.1	2	0.5	0.01
TCD081		4.9	99	3.5	11.9	31	144.0	
TCD082		5.1	131	1.5	10.1	48	137.0	
TCD083		4.2	210	1.1	9.6	41	150.5	
TCD084		6.3	128	1.7	12.2	43	143.5	
TCD085		6.3	116	6.0	9.6	39	144.5	
TCD086		7.2	140	1.7	14.0	31	160.0	
TCD087		7.8	123	1.8	15.0	36	160.5	
TCD088		14.2	147	1.8	15.3	34	159.5	
TCD089		3.4	207	0.7	11.3	50	165.5	
TCD090		3.5	206	0.6	10.7	52	148.5	
TCD091		5.6	132	1.7	12.7	67	165.5	
TCD092		5.8	132	1.8	18.7	59	151.0	
TCD093		6.9	161	2.1	18.1	51	131.5	
TCD094		4.8	195	0.8	12.7	54	149.5	



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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

Project: THOMAS CREEK

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Finalized Date: 2-JUL-2018
Account: ACCELE

CERTIFICATE OF ANALYSIS PH18134486

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

REE's may not be totally soluble in this method.
ME-MS61

ACCREDITATION COMMENTS

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-AA25 ME-MS61

LABORATORY ADDRESSES

Applies to Method:

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

Au-AA25	BAG-01	CRU-21	CRU-31
CRU-QC	LEV-01	LOG-22	ME-MS61
PUL-23	PUL-QC	SAM-COR01	SPL-21
SPLIT-D	TRSPEC-20	WEI-21	