

MINERALS TEST REPORT

CLIENT

TODD RIVER METALS PTY LTD

PO Box 2019
SUBIACO, W.A. 6904
AUSTRALIA

JOB INFORMATION

JOB CODE	: 2039.0/1807039
NO. SAMPLES	: 42
NO. ELEMENTS	: 34
CLIENT ORDER NO.	: Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO.	: 18MH05
PROJECT	: MH
SAMPLE TYPE	: RC Chip
DATE RECEIVED	: 21/05/2018
DATE REPORTED	: 06/06/2018
DATE PRINTED	: 06/06/2018

REPORT NOTES

TESTED BY

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This report relates specifically to the sample(s) tested that were drawn and/or provided by the client or their nominated third party to Intertek. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment. This report was prepared solely for the use of the client named in this report. Intertek accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. The results provided are not intended for commercial settlement purposes.

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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.

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 be charged at cost. Current disposal cost is charged at \$150.00 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
	*	= Result Checked	>	= Value beyond Limit of Method
	DTF	= Result still to come	+	= Extra Sample Received Not Listed
	IS	= Insufficient Sample for Analysis		



ELEMENTS	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180610	0.018	X	6.05%	X	468	X	1770	X	100	9
0002 MH180611	X	X	5.36%	X	531	X	2160	X	94	6
0003 MH180631	X	X	5.69%	X	363	X	3401	X	81	6
0004 MH180632	X	X	9.05%	X	396	X	2152	X	89	8
0005 MH180634	X	X	7.16%	X	265	X	2261	X	84	15
0006 MH180635	0.007	X	5.93%	X	228	X	2719	X	81	17
0007 MH180636	X	X	7.17%	X	296	X	2446	X	79	9
0008 MH180637	X	X	6.82%	X	244	X	2612	X	75	13
0009 MH180644	X	X	9.05%	11	387	X	1864	X	93	25
0010 MH180645	X	X	7.47%	X	264	X	2058	X	81	23
0011 MH180669	X	X	6.49%	X	459	X	2736	X	74	6
0012 MH180738	0.016	X	7.00%	X	173	X	2113	X	X	X
0013 MH180747	X	X	11.00%	13	751	X	2011	X	92	12
0014 MH180760	X	X	5.70%	X	527	X	3255	X	81	5
0015 MH180761	0.009	X	5.33%	X	520	X	3245	X	76	5
0016 MH180768	0.010	X	9.18%	15	665	X	2089	X	90	9
0017 MH180769	X	X	4.92%	X	433	X	974	X	59	5
0018 MH180770	X	X	7.58%	13	527	X	1211	X	144	13
0019 MH180771	X	X	6.73%	11	484	X	5621	X	90	8
0020 MH180772	X	X	5.85%	X	469	X	7868	X	78	6
0021 MH180773	X	X	5.72%	10	448	X	1.29%	X	70	7
0022 MH180774	X	X	5.51%	X	412	X	1.11%	X	70	5
0023 MH180775	0.343	0.5	4.81%	X	10	X	1232	0.6	X	X
0024 MH180776	X	X	8.00%	X	691	X	3660	X	78	10
0025 MH180777	X	X	5.74%	X	472	X	3772	X	76	5
0026 MH180778	X	X	5.13%	X	430	X	3283	X	78	4
0027 MH180779	X	X	7.38%	X	714	X	3048	X	94	6
0028 MH180780	X	X	7.35%	10	601	X	2911	X	70	8
0029 MH180781	X	X	5.93%	X	452	X	3267	X	68	5
0030 MH180782	X	X	7.35%	X	595	X	3270	X	85	8
0031 MH180783	X	X	5.16%	X	386	X	2981	X	77	4
0032 MH180784	X	X	5.61%	X	506	X	3025	X	78	5
0033 MH180785	X	X	8.21%	X	782	X	2858	X	82	9
0034 MH180786	X	X	6.26%	X	511	X	3487	X	81	7
0035 MH180787	X	X	5.81%	X	468	X	3595	1.0	76	6
0036 MH180788	X	X	8.33%	X	655	X	2821	X	79	8
0037 MH180803	X	X	9.79%	13	792	X	2102	X	92	16
0038 MH180804	0.005	X	6.92%	X	516	X	2694	X	79	13
0039 MH180805	X	X	7.95%	X	542	X	2369	X	66	12
0040 MH180806	0.025	X	7.70%	X	380	X	2549	X	78	8



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180610	36	16	2.61	1.96%	45	19	4541	308	X	5514
0002 MH180611	30	10	2.15	1.88%	46	13	4313	246	X	8089
0003 MH180631	35	9	1.91	1.57%	42	12	5614	158	X	1.57%
0004 MH180632	57	1	2.85	2.92%	44	23	1.44%	227	X	1.42%
0005 MH180634	44	3	2.15	2.01%	39	19	1.14%	176	X	1.43%
0006 MH180635	37	9	1.97	1.35%	40	18	1.05%	135	X	1.47%
0007 MH180636	43	6	1.99	1.94%	41	19	1.27%	115	X	1.44%
0008 MH180637	42	10	2.01	1.73%	39	18	1.26%	118	X	1.47%
0009 MH180644	59	5	2.90	2.86%	40	26	1.40%	172	X	1.38%
0010 MH180645	44	3	2.01	2.14%	44	22	1.33%	131	X	1.40%
0011 MH180669	42	6	2.19	2.35%	38	13	6778	196	X	1.25%
0012 MH180738	24	11	1.05	2.62%	X	18	1646	425	2	3.08%
0013 MH180747	73	42	3.96	5.25%	47	39	1.04%	533	X	7728
0014 MH180760	55	14	2.36	2.42%	42	16	4887	387	4	1.05%
0015 MH180761	41	13	2.03	2.19%	38	14	4404	341	2	1.08%
0016 MH180768	67	31	3.42	4.50%	38	29	8994	484	X	4672
0017 MH180769	33	15	2.01	2.12%	32	11	2853	225	X	2163
0018 MH180770	50	21	3.74	2.29%	33	25	4885	463	X	1764
0019 MH180771	39	13	2.56	2.04%	46	19	6095	288	X	8425
0020 MH180772	33	13	2.19	1.78%	41	14	6031	228	X	1.14%
0021 MH180773	31	18	2.29	1.70%	40	13	8012	227	X	1.22%
0022 MH180774	36	18	2.20	1.78%	39	13	7512	210	X	1.19%
0023 MH180775	15	200	0.21	4.36%	X	8	357	45	X	1.21%
0024 MH180776	58	19	3.35	3.48%	34	22	9014	356	X	9502
0025 MH180777	35	16	2.20	2.02%	42	14	5286	299	X	1.31%
0026 MH180778	30	5	1.90	1.74%	37	12	4502	261	X	1.32%
0027 MH180779	42	22	2.59	2.94%	45	18	6675	321	X	1.24%
0028 MH180780	44	3	2.81	2.93%	39	19	6840	377	X	1.32%
0029 MH180781	37	6	2.24	2.18%	35	14	5123	263	X	1.31%
0030 MH180782	54	15	3.21	2.94%	40	20	8015	405	X	9050
0031 MH180783	31	5	2.02	1.84%	39	12	4759	221	X	1.18%
0032 MH180784	36	13	2.20	2.04%	40	13	4919	273	X	1.20%
0033 MH180785	56	7	3.10	3.41%	40	21	7775	351	X	9976
0034 MH180786	42	4	2.43	2.25%	40	16	5768	272	X	1.30%
0035 MH180787	39	2	2.37	2.05%	34	15	5244	256	X	1.41%
0036 MH180788	54	4	3.20	3.52%	38	23	9086	329	X	1.14%
0037 MH180803	67	35	4.01	4.00%	48	24	1.09%	386	X	8811
0038 MH180804	49	42	2.79	2.64%	42	16	6795	242	X	1.08%
0039 MH180805	61	5	3.42	2.93%	34	18	9399	273	X	1.14%
0040 MH180806	54	9	2.60	2.34%	35	17	1.11%	232	X	1.61%



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH180610	19	215	30	51	X	7	X	51	X	2299
0002 MH180611	14	234	27	X	X	6	X	55	X	2073
0003 MH180631	14	465	15	X	X	6	7	61	X	2064
0004 MH180632	29	540	9	X	X	12	7	30	X	2393
0005 MH180634	19	500	12	X	X	9	6	33	X	1521
0006 MH180635	14	467	20	X	X	7	X	41	X	1125
0007 MH180636	16	502	15	X	X	8	7	35	X	1252
0008 MH180637	22	512	19	X	X	8	19	34	X	1197
0009 MH180644	24	543	8	539	X	12	7	24	X	1558
0010 MH180645	21	516	10	X	X	9	5	25	X	1284
0011 MH180669	17	458	18	188	X	7	X	44	X	2173
0012 MH180738	6	947	136	71	X	5	24	27	X	650
0013 MH180747	31	621	26	106	X	14	9	29	X	3156
0014 MH180760	16	473	39	223	X	6	X	44	X	2266
0015 MH180761	13	445	46	185	X	5	X	44	X	2029
0016 MH180768	26	553	50	216	X	12	9	25	X	2883
0017 MH180769	12	191	30	X	X	6	X	32	X	2096
0018 MH180770	27	192	39	X	X	9	6	41	X	2655
0019 MH180771	22	279	34	X	X	7	X	65	X	2272
0020 MH180772	18	319	35	X	X	6	X	72	X	2258
0021 MH180773	16	306	32	X	X	6	X	94	X	2269
0022 MH180774	16	308	28	X	X	6	X	86	X	2158
0023 MH180775	11	478	26	585	X	X	X	20	X	205
0024 MH180776	25	505	23	X	X	10	8	51	X	2967
0025 MH180777	14	450	27	X	X	6	X	71	X	2212
0026 MH180778	12	429	24	X	X	5	X	68	X	1949
0027 MH180779	17	465	27	X	X	8	7	62	X	2440
0028 MH180780	19	483	16	X	X	9	X	65	X	2511
0029 MH180781	16	445	18	X	X	6	X	72	X	1945
0030 MH180782	22	503	23	X	X	9	7	54	X	2811
0031 MH180783	14	441	13	X	X	5	X	60	X	1993
0032 MH180784	15	463	15	X	X	6	X	61	X	2086
0033 MH180785	25	542	14	X	X	10	6	53	X	2747
0034 MH180786	19	480	18	X	X	7	7	65	X	2343
0035 MH180787	17	472	15	X	X	6	X	69	X	2333
0036 MH180788	24	583	33	X	X	10	8	51	X	2784
0037 MH180803	34	557	21	X	X	13	17	33	X	3119
0038 MH180804	22	457	17	72	X	8	9	46	X	2462
0039 MH180805	29	468	12	96	X	11	7	37	X	3061
0040 MH180806	24	502	15	60	X	9	6	38	X	2334



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
SAMPLE NUMBERS				
0001 MH180610	X	44	X	187
0002 MH180611	X	37	X	247
0003 MH180631	X	32	X	230
0004 MH180632	X	60	5	433
0005 MH180634	X	43	X	285
0006 MH180635	X	36	X	447
0007 MH180636	X	43	X	106
0008 MH180637	X	42	X	110
0009 MH180644	X	60	6	44
0010 MH180645	X	46	X	375
0011 MH180669	X	36	X	34
0012 MH180738	X	12	8	63
0013 MH180747	X	67	7	87
0014 MH180760	X	33	8	84
0015 MH180761	X	30	5	75
0016 MH180768	X	58	5	134
0017 MH180769	X	40	X	77
0018 MH180770	X	78	7	168
0019 MH180771	X	48	X	548
0020 MH180772	X	40	X	873
0021 MH180773	X	39	X	819
0022 MH180774	X	38	X	770
0023 MH180775	10	3	X	311
0024 MH180776	X	50	X	444
0025 MH180777	X	33	X	134
0026 MH180778	X	29	X	73
0027 MH180779	X	43	X	77
0028 MH180780	X	43	X	66
0029 MH180781	X	34	X	61
0030 MH180782	X	50	X	135
0031 MH180783	X	28	X	46
0032 MH180784	X	30	X	117
0033 MH180785	X	50	X	593
0034 MH180786	X	36	X	332
0035 MH180787	X	34	X	140
0036 MH180788	X	53	7	91
0037 MH180803	X	65	10	754
0038 MH180804	X	43	X	277
0039 MH180805	X	55	9	166
0040 MH180806	X	48	6	261



ELEMENTS	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.005	0.5	50	10	2	5	50	0.5	20	1
DIGEST	FA25/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180871	0.009	X	6.00%	X	329	X	2727	X	81	5
0042 MH180877	0.018	X	8.81%	14	631	X	2192	X	84	10
CHECKS										
0001 MH180778	X	X	5.21%	X	435	X	3313	X	76	4
STANDARDS										
0001 OREAS 135		55.9	5.00%	924	185	X	1.88%	62.8	67	24
0002 OREAS 202	0.753									
0003 OREAS 136		149.8	4.26%	2237	398	X	2.25%	108.0	92	24
0004 OREAS 214	2.986									
BLANKS										
0001 Control Blank	X	X	74	X	X	X	X	X	X	1
0002 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	Cr	Cu	Fe	K	La	Li	Mg	Mn	Mo	Na
UNITS	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	0.01	20	20	1	20	1	2	20
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180871	48	7	2.48	2.03%	36	15	7437	270	X	1.35%
0042 MH180877	65	14	3.38	4.09%	43	24	9426	295	X	7767
CHECKS										
0001 MH180778	29	6	1.92	1.78%	38	12	4558	262	X	1.33%
STANDARDS										
0001 OREAS 135	46	284	9.33	4.37%	32	46	9841	4479	8	1808
0002 OREAS 202										
0003 OREAS 136	39	316	11.87	3.71%	X	40	8895	9759	6	1557
0004 OREAS 214										
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	300	X	X	X	X	X	X



ELEMENTS	Ni	P	Pb	S	Sb	Sc	Sn	Sr	Te	Ti
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	5	1	5	1	5	5
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH180871	16	470	22	72	X	6	5	38	X	2219
0042 MH180877	26	514	16	78	X	11	6	35	X	2855
CHECKS										
0001 MH180778	12	430	23	X	X	5	X	67	X	1947
STANDARDS										
0001 OREAS 135	34	896	>1.00%	7.08%	33	8	8	168	X	1518
0002 OREAS 202										
0003 OREAS 136	30	957	>1.00%	7.73%	97	7	X	159	X	1289
0004 OREAS 214										
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	6
0002 Control Blank	X	X	X	X	X	X	X	X	X	X



ELEMENTS	Tl	V	W	Zn
UNITS	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE
SAMPLE NUMBERS				
0041 MH180871	X	33	5	44
0042 MH180877	X	55	X	66
CHECKS				
0001 MH180778	X	29	X	76
STANDARDS				
0001 OREAS 135	32	76	X	>2.00%
0002 OREAS 202				
0003 OREAS 136	32	65	X	>2.00%
0004 OREAS 214				
BLANKS				
0001 Control Blank	X	X	X	2
0002 Control Blank	X	X	X	X



METHOD CODE DESCRIPTION

Method Code	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
4A/OE	Intertek Genalysis Perth 3244 3237 Multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids in Teflon Tubes. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	4A/ : MPL_W002, OE : ICP_W004
FA25/OE	Intertek Genalysis Perth 3244 3237 25g Lead collection fire assay. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	FA25/ : FA_W001, OE : ICP_W004