

MINERALS TEST REPORT

CLIENT

TODD RIVER METALS PTY LTD

PO Box 2019
SUBIACO, W.A. 6904
AUSTRALIA

JOB INFORMATION

JOB CODE	: 2039.0/1809202
NO. SAMPLES	: 47
NO. ELEMENTS	: 34
CLIENT ORDER NO.	: Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO.	: 18MH12
PROJECT	: MH
SAMPLE TYPE	: Drill core
DATE RECEIVED	: 25/06/2018
DATE REPORTED	: 10/07/2018
DATE PRINTED	: 10/07/2018

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 MH181291	X	X	7.92%	X	668	X	5578	X	94	13
0002 MH181292	0.047	X	6.58%	X	454	X	4855	1.0	75	12
0003 MH181293	X	X	7.73%	X	701	X	4965	0.8	74	10
0004 MH181294	X	X	7.93%	X	825	X	2988	X	87	10
0005 MH181295	0.006	X	9.73%	X	898	X	2925	X	106	13
0006 MH181296	X	X	8.30%	X	667	X	1808	X	80	11
0007 MH181297	X	X	5.10%	X	416	X	2826	X	88	10
0008 MH181298	X	X	5.81%	X	385	X	2514	X	72	7
0009 MH181299	X	X	5.55%	X	306	X	2782	X	71	9
0010 MH181300	0.467	2.5	7.43%	56	1103	X	3.79%	1.8	109	28
0011 MH181301	0.008	X	11.03%	X	739	X	1781	X	98	14
0012 MH181302	X	X	12.74%	X	933	X	1820	X	89	17
0013 MH181303	X	X	11.40%	X	921	X	2591	X	96	12
0014 MH181304	0.006	X	5.55%	X	365	X	3175	X	71	11
0015 MH181305	X	X	5.72%	X	421	X	3427	X	80	8
0016 MH181306	X	X	5.69%	X	488	X	3619	X	81	7
0017 MH181307	X	X	6.19%	X	482	X	3811	X	68	18
0018 MH181308	X	X	7.45%	X	597	X	3162	X	71	7
0019 MH181309	X	X	8.06%	X	569	X	2719	X	89	11
0020 MH181310	X	X	6.44%	X	508	X	2839	X	74	9
0021 MH181311	X	X	7.25%	X	476	X	2637	2.7	81	11
0022 MH181312	X	X	7.67%	X	532	X	2768	X	78	10
0023 MH181313	X	X	5.45%	X	296	X	1.33%	X	72	8
0024 MH181314	0.006	X	5.71%	X	486	X	5322	X	66	7
0025 MH181315	X	X	10.81%	X	642	X	2328	X	98	16
0026 MH181316	X	X	9.46%	X	671	X	2784	X	96	15
0027 MH181317	X	X	1.39%	X	145	X	833	X	23	4
0028 MH181318	0.010	X	6.80%	X	684	X	3437	1.3	87	9
0029 MH181319	X	X	7.30%	X	826	X	3528	3.7	80	12
0030 MH181320	X	X	9.39%	X	865	X	3003	X	92	13
0031 MH181321	X	X	4.49%	X	768	X	3145	X	66	6
0032 MH181322	0.022	1.2	4.38%	X	968	X	2920	0.7	59	7
0033 MH181323	X	X	5.55%	X	1234	X	3117	X	75	7
0034 MH181324	X	X	6.97%	X	980	X	3143	0.9	68	10
0035 MH181325	X	X	17.55%*	22	50	X	198	X	X	X
0036 MH181326	0.007	X	4.80%	X	1140	X	2649	7.0	50	12
0037 MH181327	0.018	14.2	2.45%	X	496	43	988	60.0	51	36
0038 MH181328	0.009	1.6	6.52%	37	1041	X	2200	8.2	64	25
0039 MH181329	0.014	39.1	1.12%	26	81	191	76	117.5	X	88
0040 MH181330	0.050	124.4*	8866	334	90	496	91	260.3	X	149



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 MH181291	56	2	3.63	3.08%	39	28	1.00%	709	X	1.84%
0002 MH181292	47	10	3.46	2.04%	27	24	8146	673	X	1.96%
0003 MH181293	57	133	3.02	1.98%	28	18	5896	511	X	3.02%
0004 MH181294	57	1	3.18	2.89%	35	28	9413	556	X	1.90%
0005 MH181295	63	X	4.08	4.03%	40	34	1.16%	608	X	1.35%
0006 MH181296	55	12	3.52	3.76%	35	28	8861	357	X	6130
0007 MH181297	33	46	2.32	1.72%	44	14	5272	238	X	8903
0008 MH181298	40	39	2.52	2.48%	31	14	6096	289	X	7903
0009 MH181299	44	27	2.41	2.08%	26	15	6107	276	X	7926
0010 MH181300	160	3683	5.94	2.21%	56	13	1.84%	871	67	2.25%
0011 MH181301	72	49	4.42	5.31%	49	37	1.11%	398	X	5310
0012 MH181302	85	85	4.58	6.01%	48	45	1.16%	417	X	5757
0013 MH181303	78	4	4.35	5.23%	27	50	1.14%	389	X	1.08%
0014 MH181304	38	66	2.51	2.26%	30	23	5658	276	X	9889
0015 MH181305	38	5	2.22	2.23%	35	21	5100	259	X	1.14%
0016 MH181306	35	5	2.06	2.13%	41	20	4713	283	X	1.33%
0017 MH181307	40	140	2.69	2.59%	33	23	5712	361	X	1.35%
0018 MH181308	46	4	2.73	3.70%	31	32	6791	345	X	6457
0019 MH181309	51	5	2.93	3.94%	36	35	7203	354	X	6149
0020 MH181310	43	13	2.67	2.86%	39	17	6150	289	X	8476
0021 MH181311	49	24	3.06	3.21%	33	19	7273	281	X	8259
0022 MH181312	52	8	3.18	3.64%	33	23	8298	374	X	8354
0023 MH181313	36	63	2.13	1.80%	29	13	4500	641	X	1.13%
0024 MH181314	39	11	2.23	2.62%	34	16	5205	438	X	1.06%
0025 MH181315	73	43	4.68	5.26%	49	45	1.10%	684	X	6571
0026 MH181316	62	53	4.31	4.57%	46	44	1.04%	720	X	6361
0027 MH181317	14	5	1.16	4919	X	6	1275	191	X	2841
0028 MH181318	46	12	2.66	2.60%	37	23	5767	473	X	1.32%
0029 MH181319	47	52	3.16	3.05%	32	33	7249	552	X	9833
0030 MH181320	65	17	3.94	4.35%	40	44	1.01%	694	3	7232
0031 MH181321	30	14	2.53	1.33%	26	16	4539	384	X	1.30%
0032 MH181322	31	12	2.17	1.38%	27	15	3771	326	X	1.29%
0033 MH181323	36	11	2.61	1.91%	28	23	5382	442	11	9557
0034 MH181324	58	157	3.17	2.86%	34	25	6700	525	11	9568
0035 MH181325	165	10	16.18	1532	X	12	209	358	20	111
0036 MH181326	33	132	2.21	1.72%	21	14	3564	348	2	8623
0037 MH181327	16	5147	3.41	7275	26	7	1903	343	27	5716
0038 MH181328	49	1777	5.10	2.64%	25	28	6515	658	X	9286
0039 MH181329	12	2044	3.94	3633	X	8	1968	355	X	256
0040 MH181330	5	1.34%	7.71	3000	X	7	1741	556	X	819



ELEMENTS	Ni	P	Pb	Pb-Rp1	S	S-Rp1	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	50	0.01	5	1	5	1
DIGEST	4A/	4A/	4A/	4AH/	4A/	4AH/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH181291	27	575	46		883		X	10	6	61
0002 MH181292	26	503	148		1969		X	8	X	62
0003 MH181293	22	564	339		5966		X	9	X	94
0004 MH181294	24	519	65		X		X	10	6	57
0005 MH181295	31	586	50		X		X	13	7	48
0006 MH181296	26	533	24		133		X	10	6	28
0007 MH181297	13	456	43		95		X	5	X	42
0008 MH181298	18	452	21		81		X	7	X	29
0009 MH181299	16	455	39		109		X	6	X	35
0010 MH181300	2126	1014	2105		3887		X	18	X	275
0011 MH181301	35	602	24		296		X	14	9	24
0012 MH181302	38	572	28		354		X	16	11	28
0013 MH181303	36	607	23		X		X	15	7	35
0014 MH181304	16	430	25		144		X	6	X	42
0015 MH181305	15	462	29		X		X	6	X	47
0016 MH181306	13	485	27		67		X	6	X	44
0017 MH181307	18	483	131		1181		X	7	X	47
0018 MH181308	19	576	18		51		X	8	X	30
0019 MH181309	21	525	23		74		X	9	6	26
0020 MH181310	19	488	27		X		X	7	X	45
0021 MH181311	23	556	38		X		X	9	X	42
0022 MH181312	23	509	23		X		X	9	7	33
0023 MH181313	13	478	25		1265		X	5	X	64
0024 MH181314	15	439	17		268		X	6	X	45
0025 MH181315	34	659	78		742		X	13	28	31
0026 MH181316	31	823	152		1329		X	12	30	30
0027 MH181317	4	140	77		93		X	1	X	12
0028 MH181318	17	579	184		408		X	8	18	47
0029 MH181319	22	539	443		1236		X	9	22	41
0030 MH181320	31	638	129		143		X	12	33	37
0031 MH181321	11	370	121		87		X	4	8	65
0032 MH181322	11	351	967		320		X	5	9	76
0033 MH181323	16	483	147		100		X	6	16	61
0034 MH181324	22	445	460		1017		X	9	7	55
0035 MH181325	8	125	10		498		X	11	X	4
0036 MH181326	10	347	434		2244		X	5	X	77
0037 MH181327	8	228	>1.00%	1.55%	3.44%		X	2	16	33
0038 MH181328	16	399	1914		8937		X	8	14	68
0039 MH181329	5	X	>1.00%	2.12%	5.10%		X	X	38	3
0040 MH181330	12	X	>1.00%	7.86%	>10.00%	13.87	9	X	74	4



ELEMENTS	Te	Ti	Tl	V	W	Zn	Zn-Rp1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	5	5	1	5	1	10
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4AH/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS							
0001 MH181291	X	3192	X	51	X	73	
0002 MH181292	X	2892	X	39	X	442	
0003 MH181293	X	3361	X	48	X	474	
0004 MH181294	X	3110	X	52	X	64	
0005 MH181295	X	3615	X	61	X	70	
0006 MH181296	X	2895	X	53	X	82	
0007 MH181297	X	1946	X	27	X	70	
0008 MH181298	X	2341	X	36	X	50	
0009 MH181299	X	2294	X	34	X	70	
0010 MH181300	X	6938	X	145	X	1046	
0011 MH181301	X	3361	X	72	X	100	
0012 MH181302	X	3428	X	80	X	85	
0013 MH181303	X	3584	X	78	X	82	
0014 MH181304	X	2237	X	31	X	142	
0015 MH181305	X	2231	X	33	X	52	
0016 MH181306	X	2283	X	34	X	47	
0017 MH181307	X	2448	X	39	X	168	
0018 MH181308	X	2578	X	46	X	48	
0019 MH181309	X	2719	X	51	X	64	
0020 MH181310	X	2358	X	40	X	299	
0021 MH181311	X	2808	X	46	X	557	
0022 MH181312	X	3055	X	51	6	70	
0023 MH181313	X	1976	X	28	X	95	
0024 MH181314	X	2272	X	33	X	151	
0025 MH181315	X	3375	X	72	9	125	
0026 MH181316	X	3245	X	60	6	146	
0027 MH181317	X	516	X	7	X	55	
0028 MH181318	X	2603	X	41	X	686	
0029 MH181319	X	2677	X	44	X	2021	
0030 MH181320	X	3165	X	62	X	299	
0031 MH181321	X	1680	X	23	X	144	
0032 MH181322	X	1755	X	24	X	378	
0033 MH181323	X	2258	X	34	X	209	
0034 MH181324	X	2571	X	48	X	653	
0035 MH181325	X	9009	X	421	X	4	
0036 MH181326	X	1543	X	25	X	3413	
0037 MH181327	X	1126	X	9	X	>2.00%	4.07%
0038 MH181328	X	2368	X	46	X	5575	
0039 MH181329	X	76	X	5	33	>2.00%	7.06%
0040 MH181330	6	89	X	4	224	>2.00%	16.45%



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 MH181331	0.024	41.8	3.95%	91	305	152	1274	111.8	39	70
0042 MH181332	X	X	10.02%	28	1259	X	2898	X	106	12
0043 MH181333	X	X	9.15%	30	986	X	1912	X	88	14
0044 MH181334	X	X	7.77%	22	728	X	2013	1.1	88	15
0045 MH181335	X	X	7.09%	X	599	X	2061	X	81	10
0046 MH181336	0.015	X	5.31%	X	315	X	2982	X	89	8
0047 MH181337	X	X	3.89%	X	230	X	1957	X	59	5
CHECKS										
0001 MH181312	X	X	7.53%	X	521	X	2763	X	77	11
STANDARDS										
0001 KLEN73915	1.044									
0002 OREAS 630		10.6	7.12%	672	55	9	1.53%	13.1	80	8
0003 MEB-1	0.100									
0004 OREAS 624		43.5	4.04%	108	110	24	1.42%	127.5	29	276
0005 MP-1b										
BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X	X	1
0002 Control Blank	X	X	60	X	X	X	X	X	X	4



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 MH181331	31	8414	5.98	1.45%	X	15	3233	512	X	8225
0042 MH181332	64	225	4.08	4.27%	39	49	9742	553	X	1.23%
0043 MH181333	62	68	3.90	4.08%	38	40	9763	544	X	7624
0044 MH181334	55	110	3.54	3.27%	33	32	8059	506	X	9204
0045 MH181335	47	13	3.08	3.05%	31	27	6796	429	X	7978
0046 MH181336	37	77	2.62	2.10%	39	19	5057	348	X	9588
0047 MH181337	31	23	1.80	1.52%	25	13	3650	226	X	6566
CHECKS										
0001 MH181312	52	8	3.12	3.56%	29	22	8106	383	X	8242
STANDARDS										
0001 KLEN73915										
0002 OREAS 630	17	386	8.46	3.09%	X	25	1.04%	>2.00%	10	5481
0003 MEB-1										
0004 OREAS 624	30	>2.00%	16.22	8921	X	11	1.20%	662	15	4741
0005 MP-1b										
BLANKS										
0001 Control Blank	X	X	X	X	X	1	X	2	X	X
0002 Control Blank	X	X	X	27	X	X	X	X	X	X



ELEMENTS	Ni	P	Pb	Pb-Rp1	S	S-Rp1	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	5	50	50	0.01	5	1	5	1
DIGEST	4A/	4A/	4A/	4AH/	4A/	4AH/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH181331	14	206	>1.00%	2.95%	6.75%		6	5	35	37
0042 MH181332	26	546	833		833		X	13	X	54
0043 MH181333	29	517	238		322		X	11	6	32
0044 MH181334	25	506	488		750		X	9	5	35
0045 MH181335	20	508	55		54		X	8	X	33
0046 MH181336	15	426	67		124		X	5	X	50
0047 MH181337	11	312	36		106		X	4	X	31
CHECKS										
0001 MH181312	23	510	25		X		X	9	6	31
STANDARDS										
0001 KLEN73915										
0002 OREAS 630	12	476	2795		7.19%		41	9	X	185
0003 MEB-1										
0004 OREAS 624	19	533	6099		>10.00%		64	7	6	36
0005 MP-1b				2.19%		12.62				
BLANKS										
0001 Control Blank	X	X	X		X		X	X	X	X
0002 Control Blank	X	X	X		X		X	X	X	X



ELEMENTS	Te	Ti	Tl	V	W	Zn	Zn-Rp1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	5	5	1	5	1	10
DIGEST	4A/	4A/	4A/	4A/	4A/	4A/	4AH/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS							
0041 MH181331	X	1236	X	27	22	>2.00%	7.27%
0042 MH181332	X	3196	X	63	X	654	
0043 MH181333	X	3021	X	59	X	399	
0044 MH181334	X	2861	X	50	X	750	
0045 MH181335	X	2711	X	44	X	86	
0046 MH181336	X	2090	X	29	X	82	
0047 MH181337	X	1552	X	22	X	72	
CHECKS							
0001 MH181312	X	3024	X	50	X	72	
STANDARDS							
0001 KLEN73915							
0002 OREAS 630	X	2226	67	44	16	5260	
0003 MEB-1							
0004 OREAS 624	X	1130	X	30	X	1.92%	
0005 MP-1b							17.19%
BLANKS							
0001 Control Blank	X	X	X	X	X	2	
0002 Control Blank	X	9	X	1	X	2	



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
4AH/OE	Intertek Genalysis Perth 3244 3237 Modified (for higher precision) multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	4AH/ : MPL_W003, 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