

# MINERALS TEST REPORT

## CLIENT

### TODD RIVER METALS PTY LTD

PO Box 2019  
SUBIACO, W.A. 6904  
AUSTRALIA

## JOB INFORMATION

JOB CODE	: 2039.0/1810676
NO. SAMPLES	: 106
NO. ELEMENTS	: 34
CLIENT ORDER NO.	: Q180228 (Job 1 of 1)
SAMPLE SUBMISSION NO.	: 18MH16
PROJECT	: MH
SAMPLE TYPE	: Drill core
DATE RECEIVED	: 20/07/2018
DATE REPORTED	: 16/08/2018
DATE PRINTED	: 16/08/2018

## 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.

## 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 m<sup>3</sup> 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 m<sup>3</sup>.

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.

<b>LEGEND</b>	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 MH181553	X	X	8.24%	X	211	X	3683	X	X	3
0002 MH181554	X	X	5.17%	X	559	X	4543	X	91	5
0003 MH181555	X	X	9.00%	19	876	X	3455	X	95	12
0004 MH181556	X	X	10.17%	X	885	X	4937	X	113	16
0005 MH181557	X	X	6.39%	X	459	X	4429	X	83	8
0006 MH181558	X	X	5.67%	X	646	X	2868	X	57	7
0007 MH181559	X	X	7.50%	X	92	X	2184	X	X	X
0008 MH181560	X	X	9.23%	567	672	X	2234	X	89	9
0009 MH181561	0.025	X	7.35%	X	140	X	2843	X	X	2
0010 MH181562	0.009	5.6	5.03%	X	348	26	2567	6.8	47	10
0011 MH181563	X	X	3.20%	X	158	X	1481	X	X	2
0012 MH181564	X	X	6.97%	X	100	X	2578	X	X	X
0013 MH181565	X	X	7.30%	X	67	X	3314	X	X	X
0014 MH181566	X	X	7.72%	X	75	X	2706	X	X	X
0015 MH181567	0.012	X	6.50%	X	35	X	1915	X	X	X
0016 MH181568	X	4.9	5.17%	X	90	9	1382	18.0	X	9
0017 MH181569	X	X	7.67%	X	60	X	2559	X	X	X
0018 MH181570	X	X	7.72%	X	88	X	2643	X	X	X
0019 MH181571	X	X	5.64%	X	415	X	2884	X	77	7
0020 MH181572	X	X	5.92%	X	602	X	3744	X	83	7
0021 MH181573	X	X	5.35%	X	506	X	3847	X	81	6
0022 MH181574	X	X	5.27%	X	460	X	3817	X	78	6
0023 MH181575	0.012	X	>15.00%	19	52	X	190	X	28	2
0024 MH181576	X	X	4.84%	X	490	X	3992	X	74	5
0025 MH181577	X	X	5.82%	X	716	X	3618	X	89	7
0026 MH181578	X	X	7.37%	X	972	X	3511	X	86	8
0027 MH181579	X	X	7.68%	X	909	X	2628	X	83	10
0028 MH181580	X	X	7.90%	X	131	X	2697	X	X	2
0029 MH181581	X	0.6	7.63%	X	36	X	2662	X	X	X
0030 MH181582	X	1.3	7.61%	X	60	X	2824	1.1	X	2
0031 MH181583	0.036	0.9	7.59%	X	105	X	2745	2.3	X	3
0032 MH181584	0.005	11.3	6.07%	X	607	26	2758	15.2	73	18
0033 MH181585	X	X	5.22%	X	480	X	1635	X	71	6
0034 MH181586	X	X	5.76%	X	549	X	4396	X	89	7
0035 MH181587	X	X	4.63%	X	528	X	2442	X	82	4
0036 MH181588	X	X	5.93%	27	806	X	3536	X	86	8
0037 MH181589	0.025	X	6.43%	X	683	X	2516	X	83	8
0038 MH181590	0.015	61.5	6.69%	25	502	189	1615	69.4	66	64
0039 MH181591	X	X	5.88%	23	894	X	2217	2.6	61	6
0040 MH181592	X	32.4	2.74%	12	389	90	1080	30.9	48	20



ELEMENTS	Cr	Cu	Cu-Rp1	Fe	K	La	Li	Mg	Mn	Mo
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	10	0.01	20	20	1	20	1	2
DIGEST	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH181553	14	8		0.98	2.89%	X	15	1649	734	X
0002 MH181554	28	48		1.81	1.65%	45	12	4018	390	X
0003 MH181555	64	X		3.20	4.00%	46	30	8532	708	18
0004 MH181556	65	2		4.20	4.24%	56	30	1.12%	854	X
0005 MH181557	40	1		2.80	2.42%	39	18	7000	540	X
0006 MH181558	36	X		2.36	2.26%	28	14	5914	458	X
0007 MH181559	X	1		0.58	2.68%	X	5	513	365	X
0008 MH181560	58	2		3.71	3.28%	42	25	1.04%	620	2
0009 MH181561	8	10		0.60	2.56%	X	6	646	134	X
0010 MH181562	26	557		2.42	2.02%	22	16	3154	452	X
0011 MH181563	16	48		1.02	1.22%	X	7	1089	209	X
0012 MH181564	X	39		0.52	2.51%	X	4	267	290	X
0013 MH181565	7	4		0.53	2.01%	X	5	333	479	X
0014 MH181566	X	6		0.65	2.06%	X	5	342	896	X
0015 MH181567	7	41		0.66	1.84%	X	8	345	1015	X
0016 MH181568	8	3032		1.88	2.33%	X	19	829	1379	33
0017 MH181569	X	13		0.62	1.85%	X	8	332	1219	X
0018 MH181570	5	4		0.60	1.91%	X	7	393	764	X
0019 MH181571	38	5		2.72	2.19%	36	30	4857	729	X
0020 MH181572	39	X		2.53	2.29%	40	25	5606	573	X
0021 MH181573	31	7		2.31	2.00%	40	18	5059	539	X
0022 MH181574	36	5		2.60	2.15%	38	20	6233	570	X
0023 MH181575	169	6		16.68	1573	X	11	283	362	21
0024 MH181576	33	7		2.07	1.81%	35	13	4486	446	X
0025 MH181577	35	X		2.50	2.33%	41	18	5772	568	X
0026 MH181578	43	6		2.92	2.88%	42	26	6825	702	X
0027 MH181579	49	2		3.62	3.38%	40	38	8148	767	X
0028 MH181580	11	5		1.01	1.90%	X	12	977	1657	X
0029 MH181581	5	17		0.63	1.46%	X	6	287	656	X
0030 MH181582	5	84		0.99	1.58%	X	9	362	1551	X
0031 MH181583	X	66		0.73	1.84%	X	7	436	537	X
0032 MH181584	23	4375		3.94	2.27%	35	18	4603	433	X
0033 MH181585	29	316		2.06	2.24%	36	16	4909	308	X
0034 MH181586	36	14		2.34	2.36%	44	17	5741	459	X
0035 MH181587	29	15		1.80	1.86%	39	13	4892	300	X
0036 MH181588	38	19		2.23	2.35%	42	17	4783	421	X
0037 MH181589	44	41		2.73	2.71%	41	19	6258	401	X
0038 MH181590	44	1.32%		6.21	2.94%	32	24	6573	445	X
0039 MH181591	37	295		2.49	2.48%	30	21	4879	374	X
0040 MH181592	17	1931		3.19	1.06%	22	9	3162	379	X



ELEMENTS	Na	Ni	P	Pb	Pb-Rp1	S	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	20	1	50	5	50	50	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0001 MH181553	2.84%	5	1320	95		114	X	5	32	24
0002 MH181554	1.53%	10	760	181		197	X	5	6	48
0003 MH181555	8228	32	489	52		92	X	11	11	34
0004 MH181556	1.35%	32	655	24		70	X	13	14	53
0005 MH181557	1.08%	18	481	33		51	X	7	X	56
0006 MH181558	1.13%	14	460	76		95	X	6	13	33
0007 MH181559	2.67%	X	841	68		76	X	5	49	22
0008 MH181560	9189	27	520	38		298	X	11	9	28
0009 MH181561	2.80%	X	1171	410		173	X	5	43	34
0010 MH181562	1.00%	8	597	1620		4314	X	5	32	25
0011 MH181563	1.02%	3	466	240		426	X	2	17	17
0012 MH181564	2.84%	X	1081	580		575	X	3	35	26
0013 MH181565	3.28%	X	1133	178		119	X	4	42	22
0014 MH181566	3.19%	X	1275	645		190	X	4	45	29
0015 MH181567	2.25%	X	988	313		175	X	5	50	20
0016 MH181568	3427	4	758	1001		8052	X	2	70	12
0017 MH181569	2.90%	X	1255	455		187	X	6	48	31
0018 MH181570	2.95%	X	1326	394		287	X	4	45	32
0019 MH181571	1.36%	14	707	226		93	X	6	30	41
0020 MH181572	1.29%	14	506	163		55	X	6	19	59
0021 MH181573	1.23%	15	465	208		80	X	5	14	61
0022 MH181574	9411	15	488	182		68	X	6	7	48
0023 MH181575	121	9	125	10		511	X	11	5	5
0024 MH181576	1.01%	11	427	89		X	X	5	X	53
0025 MH181577	1.08%	15	472	68		X	X	6	5	53
0026 MH181578	1.30%	17	529	120		77	X	8	20	49
0027 MH181579	1.22%	22	594	47		63	X	10	35	40
0028 MH181580	3.32%	3	1091	388		134	X	6	33	21
0029 MH181581	3.78%	X	1134	1206		444	X	6	30	17
0030 MH181582	3.54%	X	1170	2480		991	X	6	36	23
0031 MH181583	3.05%	X	1092	1590		1302	X	7	39	29
0032 MH181584	6900	5	1014	3311		1.43%	X	3	44	27
0033 MH181585	6196	11	395	251		595	X	5	10	26
0034 MH181586	1.05%	15	462	51		885	X	6	5	43
0035 MH181587	9192	10	430	130		162	X	4	X	31
0036 MH181588	1.03%	14	492	264		193	X	6	X	40
0037 MH181589	8237	17	445	81		777	X	7	7	29
0038 MH181590	6047	17	378	>1.00%	2.42%	5.00%	X	8	25	20
0039 MH181591	4594	12	404	500		1630	X	6	X	23
0040 MH181592	2853	4	196	>1.00%	1.76%	2.23%	X	2	X	12



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 MH181553	X	561	X	11	9	94	
0002 MH181554	X	1799	X	23	X	93	
0003 MH181555	X	2780	X	60	8	115	
0004 MH181556	X	3527	X	70	10	112	
0005 MH181557	X	2610	X	39	X	68	
0006 MH181558	X	2140	X	33	X	73	
0007 MH181559	X	178	X	X	7	25	
0008 MH181560	X	2871	X	60	X	121	
0009 MH181561	X	212	X	X	8	60	
0010 MH181562	X	1164	X	21	X	3613	
0011 MH181563	X	600	X	9	X	128	
0012 MH181564	X	65	X	X	X	138	
0013 MH181565	X	109	X	X	7	72	
0014 MH181566	X	94	X	X	8	151	
0015 MH181567	X	145	X	1	10	160	
0016 MH181568	X	311	X	4	9	6052	
0017 MH181569	X	100	X	X	9	138	
0018 MH181570	X	110	X	X	8	92	
0019 MH181571	X	2187	X	30	6	155	
0020 MH181572	X	2291	X	33	X	72	
0021 MH181573	X	2019	X	29	X	65	
0022 MH181574	X	2070	X	31	X	89	
0023 MH181575	X	9115	X	424	X	7	
0024 MH181576	X	1819	X	26	X	41	
0025 MH181577	X	2260	X	33	X	40	
0026 MH181578	X	2678	X	48	X	87	
0027 MH181579	X	3051	X	48	7	177	
0028 MH181580	X	351	X	6	8	73	
0029 MH181581	X	128	X	X	7	231	
0030 MH181582	X	113	X	X	6	636	
0031 MH181583	X	134	X	X	9	1444	
0032 MH181584	X	1176	X	22	X	9308	
0033 MH181585	X	1676	X	26	X	227	
0034 MH181586	X	2304	X	33	X	74	
0035 MH181587	X	1873	X	24	X	88	
0036 MH181588	X	2195	X	33	X	116	
0037 MH181589	X	2161	X	38	X	164	
0038 MH181590	X	2131	X	45	X	>2.00%	4.22%
0039 MH181591	X	1964	X	33	X	1764	
0040 MH181592	X	964	X	14	X	>2.00%	2.04%



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 MH181593	0.010	74.8	4.28%	72	426	257	1581	93.4	51	51
0042 MH181594	X	X	6.65%	74	847	X	2535	0.7	78	10
0043 MH181595	X	X	7.76%	58	941	X	2618	X	86	10
0044 MH181596	X	X	8.79%	49	997	X	2016	X	95	11
0045 MH181597	X	X	5.29%	20	941	X	2908	X	74	8
0046 MH181598	X	12.0	4.63%	X	854	39	2632	19.6	76	13
0047 MH181599	0.066	473.2	3682	190	55	1506	89	446.0	X	215
0048 MH181600	0.023	0.6	5.91%	11	29	X	1.74%	0.5	X	27
0049 MH181601	0.010	31.4	5.91%	X	721	92	1724	42.0	66	30
0050 MH181602	X	X	5.25%	32	710	X	1913	1.6	63	6
0051 MH181603	0.012	31.7	4.43%	X	537	75	1822	17.9	64	39
0052 MH181604	0.007	4.8	8.49%	11	1026	X	2905	4.9	113	11
0053 MH181605	X	8.4	6.67%	X	848	X	2687	3.5	74	11
0054 MH181606	0.015	11.8	5.65%	X	665	25	1406	15.8	67	13
0055 MH181607	0.036	224.1	1.05%	X	64	773	230	366.4	X	176
0056 MH181608	X	7.2	6.31%	X	603	22	2069	14.3	57	14
0057 MH181609	X	1.3	5.37%	X	613	X	2127	2.7	63	6
0058 MH181610	X	1.9	6.76%	X	590	X	3383	2.2	75	12
0059 MH181611	X	X	6.29%	X	618	X	3707	X	90	7
0060 MH181612	X	X	6.39%	X	360	X	2698	X	89	9
0061 MH181613	X	X	8.28%	X	830	X	1991	X	88	13
0062 MH181614	0.006	X	5.89%	X	436	X	2428	X	80	11
0063 MH181615	X	0.6	6.97%	X	561	X	2228	X	92	13
0064 MH181616	X	0.5	6.18%	X	495	X	2287	X	119	14
0065 MH181617	X	0.5	7.62%	X	646	X	2811	1.8	112	15
0066 MH181618	X	X	8.44%	X	664	X	2221	0.9	94	17
0067 MH181619	X	X	7.55%	X	580	X	2036	0.7	99	15
0068 MH181620	X	X	10.75%	X	869	X	1656	0.7	91	20
0069 MH181621	X	X	8.17%	X	597	X	2305	1.1	93	16
0070 MH181622	0.006	X	9.01%	X	646	X	1601	0.7	101	16
0071 MH181623	0.014	X	8.94%	X	666	X	1338	0.6	102	20
0072 MH181624	0.007	X	9.11%	X	660	X	1247	0.6	90	11
0073 MH181625	0.021	X	5.85%	11	29	X	1.70%	X	X	28
0074 MH181626	0.006	X	9.10%	14	606	X	1115	1.1	120	15
0075 MH181627	X	X	8.79%	X	623	X	765	X	96	11
0076 MH181628	X	X	9.82%	X	737	X	655	X	105	9
0077 MH181629	0.006	1.0	8.72%	X	521	X	679	0.6	90	11
0078 MH181630	0.011	3.9	7.83%	34	471	49	615	3.8	103	19
0079 MH181631	X	1.9	4.23%	X	150	X	1621	2.7	52	8
0080 MH181632	0.005	X	6.59%	X	424	X	1133	0.5	62	9



ELEMENTS	Cr	Cu	Cu-Rp1	Fe	K	La	Li	Mg	Mn	Mo
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	10	0.01	20	20	1	20	1	2
DIGEST	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH181593	24	1807		6.63	1.74%	26	14	3977	518	X
0042 MH181594	39	24		3.04	2.82%	38	25	5959	457	X
0043 MH181595	54	145		3.61	3.38%	41	27	7184	520	X
0044 MH181596	56	1		4.08	4.21%	46	32	8843	642	X
0045 MH181597	35	38		3.94	1.84%	35	21	6612	742	X
0046 MH181598	31	939		3.09	1.66%	37	14	4140	489	X
0047 MH181599	6	>2.00%	2.10%	17.24	1709	X	3	406	809	X
0048 MH181600	53	33		2.89	3.77%	X	6	8260	366	9
0049 MH181601	37	6681		5.74	2.25%	32	17	4229	590	X
0050 MH181602	31	160		2.78	2.10%	30	16	4406	364	X
0051 MH181603	30	1.34%		7.50	1.67%	30	15	4320	397	X
0052 MH181604	51	1995		6.44	3.23%	55	35	9308	705	X
0053 MH181605	45	7292		4.96	2.66%	33	24	6072	480	X
0054 MH181606	40	1465		3.82	2.19%	31	21	4979	493	X
0055 MH181607	11	1.31%		11.85	3298	X	6	1789	867	X
0056 MH181608	41	377		5.12	2.81%	26	28	7623	954	X
0057 MH181609	35	150		3.22	2.35%	31	21	5232	556	X
0058 MH181610	46	137		3.37	2.91%	36	22	6769	549	X
0059 MH181611	40	3		2.54	2.72%	43	20	5922	460	X
0060 MH181612	38	28		2.88	2.79%	43	24	6380	380	X
0061 MH181613	51	379		3.48	3.19%	43	20	8188	503	X
0062 MH181614	38	148		2.79	1.70%	38	13	6451	461	X
0063 MH181615	50	367		3.34	2.33%	43	17	7730	515	X
0064 MH181616	43	186		2.98	2.18%	56	16	7043	470	X
0065 MH181617	49	172		3.36	2.89%	52	20	8079	441	X
0066 MH181618	57	165		3.90	3.53%	45	24	9998	547	X
0067 MH181619	61	193		3.75	3.05%	46	22	9247	527	X
0068 MH181620	71	336		4.55	4.28%	44	32	1.18%	652	X
0069 MH181621	57	297		3.80	3.22%	44	25	9591	560	X
0070 MH181622	64	801		3.98	3.53%	48	27	1.03%	605	X
0071 MH181623	62	618		4.09	3.56%	47	27	1.02%	606	X
0072 MH181624	66	721		3.95	3.76%	43	26	9699	488	X
0073 MH181625	56	35		2.83	3.67%	X	6	8127	359	9
0074 MH181626	60	744		4.72	3.57%	61	26	1.00%	542	X
0075 MH181627	61	1092		3.97	3.49%	46	27	9661	462	X
0076 MH181628	71	1342		3.63	3.93%	49	29	1.02%	412	X
0077 MH181629	63	1205		4.09	2.85%	45	28	1.19%	454	X
0078 MH181630	52	1051		7.60	2.48%	48	37	1.68%	536	X
0079 MH181631	21	214		2.71	7966	26	16	9056	298	X
0080 MH181632	40	143		2.82	2.01%	29	24	1.13%	337	X





ELEMENTS	Na	Ni	P	Pb	Pb-Rp1	S	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	20	1	50	5	50	50	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0041 MH181593	4936	15	310	>1.00%	3.03%	6.00%	X	4	10	18
0042 MH181594	6770	18	496	416		458	X	7	X	33
0043 MH181595	6757	23	520	422		428	X	9	X	33
0044 MH181596	5227	27	537	187		154	X	11	6	28
0045 MH181597	6704	13	393	212		230	X	5	X	38
0046 MH181598	7529	10	385	3872		1.01%	X	4	6	34
0047 MH181599	332	22	X	>1.00%	14.39%	>10.00%	60	X	23	1
0048 MH181600	1.54%	33	615	70		170	X	8	X	73
0049 MH181601	1.09%	7	365	>1.00%	1.09%	3.41%	X	7	12	28
0050 MH181602	8357	11	398	599		1236	X	5	X	26
0051 MH181603	7413	10	335	>1.00%	1.34%	4.38%	X	4	15	22
0052 MH181604	1.21%	16	518	6189		7177	X	10	7	36
0053 MH181605	9519	11	449	2561		1.32%	X	8	8	33
0054 MH181606	8126	6	399	5631		1.01%	X	5	9	20
0055 MH181607	365	13	X	>1.00%	7.16%	>10.00%	17	X	22	2
0056 MH181608	8435	17	381	2880		7488	X	8	5	27
0057 MH181609	6435	13	408	1522		2035	X	6	6	26
0058 MH181610	9539	24	471	810		2968	X	8	5	45
0059 MH181611	1.05%	16	509	51		184	X	7	X	51
0060 MH181612	8568	19	461	40		334	X	7	8	37
0061 MH181613	9098	24	461	266		X	X	10	10	35
0062 MH181614	1.38%	18	422	196		X	X	6	X	45
0063 MH181615	1.11%	23	455	529		X	X	8	6	46
0064 MH181616	9033	22	476	380		X	X	7	5	47
0065 MH181617	9633	26	475	358		X	X	9	7	50
0066 MH181618	7136	33	515	163		X	X	11	9	33
0067 MH181619	6806	29	525	227		X	X	9	8	30
0068 MH181620	7021	38	583	300		X	X	14	11	29
0069 MH181621	6290	30	507	285		X	X	11	9	30
0070 MH181622	6400	28	502	487		X	X	12	11	25
0071 MH181623	5670	31	509	343		X	X	11	10	23
0072 MH181624	4065	31	509	211		X	X	12	10	20
0073 MH181625	1.49%	32	615	59		174	X	8	X	72
0074 MH181626	4306	30	510	522		X	X	12	10	20
0075 MH181627	3054	25	408	734		X	X	12	11	18
0076 MH181628	4947	19	583	3334		86	X	13	13	24
0077 MH181629	7065	17	554	2049		64	X	12	15	28
0078 MH181630	7218	17	688	1089		50	X	9	21	24
0079 MH181631	1.09%	8	390	323		X	X	3	5	15
0080 MH181632	1.24%	12	482	267		X	X	7	10	18



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 MH181593	X	1585	X	25	X	>2.00%	5.59%
0042 MH181594	X	2343	X	39	X	499	
0043 MH181595	X	2813	X	49	5	304	
0044 MH181596	X	3211	X	58	7	209	
0045 MH181597	X	1894	X	30	X	212	
0046 MH181598	X	1810	X	24	X	1.14%	
0047 MH181599	X	89	X	2	X	>2.00%	27.72%
0048 MH181600	X	3090	X	67	X	59	
0049 MH181601	X	1939	X	36	X	>2.00%	2.82%
0050 MH181602	X	1968	X	28	X	1211	
0051 MH181603	X	1629	X	25	X	1.44%	
0052 MH181604	X	2724	X	54	X	3824	
0053 MH181605	X	2495	X	43	X	2504	
0054 MH181606	X	1841	X	33	X	1.01%	
0055 MH181607	X	199	X	5	X	>2.00%	21.45%
0056 MH181608	X	2054	X	44	X	8580	
0057 MH181609	X	1881	X	34	X	2417	
0058 MH181610	X	2908	X	44	X	1351	
0059 MH181611	X	2472	X	38	X	87	
0060 MH181612	X	2453	X	38	X	73	
0061 MH181613	X	2634	X	58	X	3012	
0062 MH181614	X	2515	X	35	X	2798	
0063 MH181615	X	3163	X	46	X	3912	
0064 MH181616	X	3035	X	40	X	3833	
0065 MH181617	X	2943	X	52	X	3064	
0066 MH181618	X	3533	X	58	X	2889	
0067 MH181619	X	3155	X	49	X	2511	
0068 MH181620	X	3713	X	78	7	3144	
0069 MH181621	X	3266	X	58	X	2704	
0070 MH181622	X	3425	X	65	7	3006	
0071 MH181623	X	3376	X	63	X	2428	
0072 MH181624	X	3498	X	66	5	3166	
0073 MH181625	X	3068	X	67	X	59	
0074 MH181626	X	3648	X	63	6	4666	
0075 MH181627	X	3407	X	62	X	3701	
0076 MH181628	X	3497	X	69	7	2655	
0077 MH181629	X	3420	X	61	X	4041	
0078 MH181630	X	3076	X	69	X	5463	
0079 MH181631	X	1420	X	22	X	1737	
0080 MH181632	X	2330	X	41	X	1739	



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										
0081 MH181633	X	X	4.92%	X	226	X	863	0.6	X	12
0082 MH181634	X	0.9	4.86%	X	208	X	840	0.8	67	14
0083 MH181635	X	0.8	5.48%	X	255	X	1194	X	75	17
0084 MH181636	X	X	6.06%	X	349	X	1068	0.7	80	19
0085 MH181637	X	X	5.74%	X	305	X	950	0.6	88	11
0086 MH181638	0.028	X	9.93%	X	742	X	1294	0.6	90	17
0087 MH181639	0.013	X	10.81%	X	814	X	989	1.2	99	23
0088 MH181640	X	X	8.81%	X	611	X	1004	1.4	70	18
0089 MH181641	X	X	5.70%	X	322	X	1220	0.7	80	7
0090 MH181642	X	X	5.99%	X	375	X	1813	X	86	5
0091 MH181643	X	X	5.94%	X	344	X	1577	X	95	6
0092 MH181644	X	X	6.25%	X	395	X	1879	X	86	5
0093 MH181645	X	X	6.00%	X	376	X	1528	X	89	7
0094 MH181646	X	X	10.16%	X	837	X	1746	X	103	9
0095 MH181647	X	X	6.40%	X	405	X	1973	X	85	8
0096 MH181648	X	X	5.97%	X	399	X	1809	X	83	6
0097 MH181649	X	X	5.99%	X	368	X	2307	X	108	6
0098 MH181650	0.470	2.9	7.33%	53	1090	X	3.79%	1.6	109	25
0099 MH181651	X	X	5.93%	X	377	X	2466	X	82	7
0100 MH181652	X	X	5.92%	X	366	X	2517	3.6	87	9
0101 MH181653	X	X	5.88%	X	334	X	2254	0.9	84	6
0102 MH181654	0.008	X	6.26%	X	431	X	1941	X	90	6
0103 MH181655	X	X	12.19%	X	1046	X	1363	X	98	14
0104 MH181656	X	X	9.98%	X	774	X	1298	0.9	87	12
0105 MH181657	X	X	11.19%	X	841	X	1700	X	97	13
0106 MH181658	0.005	3.5	11.39%	20	856	X	2744	0.9	101	50

CHECKS										
0001 MH181570	X	X	7.84%	X	91	X	2663	X	X	X
0002 MH181605	0.018	8.3	6.86%	X	869	X	2762	3.6	73	12
0003 MH181624	X	X	9.19%	X	665	X	1277	0.5	90	12

STANDARDS										
0001 KLEN74107	8.284									
0002 MPL-5		30.9	3.46%	1060	600	28	4.38%	2.9	567	132
0003 MEB-1	0.100									
0004 OREAS 121		X	4.62%	X	1000	X	865	X	48	4
0005 OREAS 120		X	4.58%	X	983	X	607	X	46	4
0006 ST626	0.525									
0007 MEB-1	0.096									



ELEMENTS	Cr	Cu	Cu-Rp1	Fe	K	La	Li	Mg	Mn	Mo
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	10	0.01	20	20	1	20	1	2
DIGEST	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0081 MH181633	25	191		3.92	1.29%	X	30	1.86%	468	X
0082 MH181634	26	187		3.81	1.23%	30	27	1.70%	433	X
0083 MH181635	30	172		3.03	1.36%	35	22	1.26%	478	X
0084 MH181636	34	206		3.19	1.90%	39	24	1.25%	538	X
0085 MH181637	29	160		3.69	1.75%	42	25	1.48%	466	X
0086 MH181638	67	130		4.32	3.67%	42	33	1.65%	560	X
0087 MH181639	67	173		4.40	4.07%	46	33	1.63%	669	X
0088 MH181640	59	144		4.06	3.26%	32	29	1.42%	495	X
0089 MH181641	36	61		2.57	1.67%	39	16	8420	293	X
0090 MH181642	36	46		2.10	1.80%	41	14	7000	241	X
0091 MH181643	35	42		2.39	1.68%	46	16	8292	265	X
0092 MH181644	37	91		2.24	1.91%	41	16	7659	250	X
0093 MH181645	35	85		2.45	1.86%	42	18	8312	277	X
0094 MH181646	61	91		3.78	3.67%	49	33	1.27%	414	X
0095 MH181647	45	78		2.81	1.89%	41	20	8289	317	X
0096 MH181648	37	84		2.39	1.91%	40	17	6957	292	X
0097 MH181649	36	108		2.35	1.78%	51	16	6841	296	X
0098 MH181650	162	3578		5.88	2.12%	58	12	1.83%	816	62
0099 MH181651	35	133		2.36	1.84%	39	15	6581	275	X
0100 MH181652	36	32		2.39	1.81%	43	14	6155	308	X
0101 MH181653	34	8		2.35	1.82%	40	15	6574	331	X
0102 MH181654	37	12		2.50	2.33%	44	17	6342	328	X
0103 MH181655	73	44		5.24	5.04%	46	38	1.31%	602	X
0104 MH181656	65	92		4.95	4.24%	42	34	1.19%	529	X
0105 MH181657	68	367		4.79	4.33%	48	36	1.41%	598	X
0106 MH181658	74	4382		5.94	4.29%	49	34	1.27%	626	X

CHECKS										
0001 MH181570	7	5		0.60	1.98%	X	7	417	757	X
0002 MH181605	48	7500		5.25	2.73%	35	24	6246	504	X
0003 MH181624	66	719		3.97	3.80%	44	26	9722	496	X

STANDARDS										
0001 KLEN74107										
0002 MPL-5	780	2007		3.89	1.17%	303	44	9097	2288	20
0003 MEB-1										
0004 OREAS 121	45	2		1.65	2.61%	21	4	2461	784	7
0005 OREAS 120	41	X		1.57	2.57%	X	5	2317	763	7
0006 ST626										
0007 MEB-1										



ELEMENTS	Na	Ni	P	Pb	Pb-Rp1	S	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	20	1	50	5	50	50	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
SAMPLE NUMBERS										
0081 MH181633	5270	17	384	131		X	X	5	5	8
0082 MH181634	6662	15	391	171		X	X	5	6	9
0083 MH181635	1.05%	11	472	288		X	X	6	7	14
0084 MH181636	7593	14	497	299		X	X	6	10	14
0085 MH181637	4655	20	475	134		X	X	6	8	9
0086 MH181638	6340	34	621	174		X	X	13	14	18
0087 MH181639	5040	34	547	151		X	X	14	16	21
0088 MH181640	5663	30	522	74		X	X	11	12	18
0089 MH181641	9153	16	408	17		X	X	6	X	20
0090 MH181642	1.04%	10	454	27		X	X	6	X	32
0091 MH181643	1.12%	18	454	18		X	X	6	5	24
0092 MH181644	1.10%	14	491	23		X	X	7	6	26
0093 MH181645	9002	16	458	25		X	X	6	6	22
0094 MH181646	8781	29	554	43		X	X	12	13	31
0095 MH181647	1.13%	17	471	80		X	X	7	7	33
0096 MH181648	9432	15	444	40		X	X	6	6	28
0097 MH181649	1.11%	16	460	26		X	X	6	5	35
0098 MH181650	2.14%	2189	987	1946		3930	X	17	X	272
0099 MH181651	1.09%	19	451	31		X	X	6	X	36
0100 MH181652	1.14%	14	452	59		78	X	6	X	38
0101 MH181653	1.08%	15	438	38		X	X	6	X	32
0102 MH181654	7456	16	468	42		X	X	7	5	28
0103 MH181655	6276	37	514	55		X	X	16	12	25
0104 MH181656	5683	32	490	53		117	5	13	11	21
0105 MH181657	9118	33	501	46		581	X	14	14	29
0106 MH181658	1.29%	86	617	127		1.26%	X	15	13	45

CHECKS										
0001 MH181570	3.01%	X	1323	399		296	X	4	48	33
0002 MH181605	9665	11	453	2634		1.36%	X	8	8	34
0003 MH181624	4033	31	524	210		X	X	12	11	20

STANDARDS										
0001 KLEN74107										
0002 MPL-5	5770	2487	761	2121		1.14%	368	49	11	436
0003 MEB-1										
0004 OREAS 121	2549	10	154	20		53	X	3	X	130
0005 OREAS 120	2306	9	125	15		X	X	2	X	120
0006 ST626										
0007 MEB-1										



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							
0081 MH181633	X	1516	X	26	X	1423	
0082 MH181634	X	1516	X	27	X	1436	
0083 MH181635	X	1737	X	30	X	1133	
0084 MH181636	X	2308	X	35	X	1367	
0085 MH181637	X	2167	X	32	X	1228	
0086 MH181638	X	3268	X	67	7	1519	
0087 MH181639	X	3354	X	71	6	1601	
0088 MH181640	X	3056	X	63	X	1865	
0089 MH181641	X	2244	X	32	X	1088	
0090 MH181642	X	2269	X	34	X	888	
0091 MH181643	X	2228	X	34	X	835	
0092 MH181644	X	2403	X	37	X	1042	
0093 MH181645	X	2317	X	34	X	1268	
0094 MH181646	X	3170	X	66	6	1824	
0095 MH181647	X	2346	X	36	X	1538	
0096 MH181648	X	2265	X	35	X	1373	
0097 MH181649	X	2267	X	34	X	1222	
0098 MH181650	X	6767	X	135	X	1005	
0099 MH181651	X	2259	X	33	X	1040	
0100 MH181652	X	2257	X	35	X	835	
0101 MH181653	X	2203	X	34	X	953	
0102 MH181654	X	2274	X	36	X	1111	
0103 MH181655	X	3447	X	79	6	2495	
0104 MH181656	X	3205	X	65	7	1469	
0105 MH181657	X	3127	X	70	8	871	
0106 MH181658	X	3927	X	79	X	1296	

CHECKS							
0001 MH181570	X	120	X	X	8	96	
0002 MH181605	X	2580	X	45	5	2561	
0003 MH181624	X	3439	X	66	7	3154	

STANDARDS							
0001 KLEN74107							
0002 MPL-5	32	2574	X	208	27	1348	
0003 MEB-1							
0004 OREAS 121	X	2402	X	22	X	21	
0005 OREAS 120	X	2353	X	21	X	16	
0006 ST626							
0007 MEB-1							



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
STANDARDS										
0008 OREAS 121		X	4.70%	X	1004	X	799	X	48	5
0009 BGM Std 3										

BLANKS										
0001 Control Blank	X	X	62	X	X	X	X	X	X	X
0002 Control Blank	X	X	X	X	X	X	X	X	X	X
0003 Control Blank	X	X	X	X	X	X	X	X	X	1



ELEMENTS	Cr	Cu	Cu-Rp1	Fe	K	La	Li	Mg	Mn	Mo
UNITS	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	5	1	10	0.01	20	20	1	20	1	2
DIGEST	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
STANDARDS										
0008 OREAS 121	43	X		1.63	2.60%	20	4	2458	763	7
0009 BGM Std 3			21.65%							

BLANKS										
0001 Control Blank	X	X		X	X	X	X	X	X	X
0002 Control Blank	X	X		X	80	X	X	X	1	X
0003 Control Blank	X	X		X	63	X	X	X	1	X





ELEMENTS	Na	Ni	P	Pb	Pb-Rp1	S	Sb	Sc	Sn	Sr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	20	1	50	5	50	50	5	1	5	1
DIGEST	4A/	4A/	4A/	4A/	4AH/	4A/	4A/	4A/	4A/	4A/
ANALYTICAL FINISH	OE	OE	OE	OE	OE	OE	OE	OE	OE	OE
STANDARDS										
0008 OREAS 121	2375	10	149	16		X	X	3	X	131
0009 BGM Std 3					260					

BLANKS										
0001 Control Blank	X	X	X	X		X	X	X	X	X
0002 Control Blank	X	X	X	X		X	X	X	X	X
0003 Control Blank	X	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
STANDARDS							
0008 OREAS 121	X	2409	X	22	X	17	
0009 BGM Std 3							415
BLANKS							
0001 Control Blank	X	X	X	X	X	1	
0002 Control Blank	X	X	X	X	X	3	
0003 Control Blank	X	X	X	X	X	2	



## METHOD CODE DESCRIPTION

Method Code	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
<b>4A/OE</b>	Intertek Genalysis Perth <b>3244 3237</b> Multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids in Teflon Tubes. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	<b>4A/ : MPL_W002, OE : ICP_W004</b>
<b>4AH/OE</b>	Intertek Genalysis Perth <b>3244 3237</b> Modified (for higher precision) multi-acid digest including Hydrofluoric, Nitric, Perchloric and Hydrochloric acids. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	<b>4AH/ : MPL_W003, OE : ICP_W004</b>
<b>FA25/OE</b>	Intertek Genalysis Perth <b>3244 3237</b> 25g Lead collection fire assay. Analysed by Inductively Coupled Plasma Optical (Atomic) Emission Spectrometry.	<b>FA25/ : FA_W001, OE : ICP_W004</b>