

ASX: TMX

ASX RELEASE

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Positive First Round Drilling Results at Red Mulga

Terrain Minerals Limited (ASX: TMX) is pleased to announce the results from the first ever drilling program at its 100% owned Red Mulga (early stage) exploration project. The project is located ~180km NNE of the town of Geraldton and ~150km North of the town of Mullewa.

The results from drill holes RMRC 002 and RMRC 006 are considered to be of particular significance:

- Drill hole **RMRC 002** has identified two zones of anomalous copper and gold mineralisation in narrow shear zones adjacent to epithermal veins in the northeastern part of the project area. The vein systems have a combined strike length of about 4.5km. The potential therefore exists for considerable alongstrike extensions to the mineralisation encountered in RMRC 002.
- In the southwest of the project, **RMRC 006** has intersected anomalous nickel and chrome in a 4m-wide shear zone in mafic schist. Previous rock chip and soil sampling have indicated that the mafic unit is roughly circular with a diameter of about 200m. The geometry of the mafic body is unknown at present but good potential is thought to exist for extensions to the mineralised zone.

The Red Mulga project area has never been drilled and received little exploration attention in the past. <u>These results are considered to be the first positive indications of mineralisation in the area</u>. The information gained from this drill programme will be further analysed and is contributing to the existing knowledge base. Terrain will continue to advance this early stage project forward.

Assay data obtained from the recent drilling at the Red Mulga project provides the following:

EPITHERMAL Northern Vein hole RMRC 002: <u>Positive Results</u> were obtained from the northeast epithermal quartz veins tested which are found to be enclosed within a mafic schist. In RMRC 002, two main zones of shear of 6m and 4m in downhole width within the mafic unit are mineralised. Anomalous levels of copper and gold mineralisation were encountered including 1m from 53m to 54m with 98ppb gold and 0.75% copper in the upper shear zone. In the lower shear zone between 87m and 89m, copper assayed 0.28% and gold over 50ppb while elevated levels of lead, lithium and uranium were present.

MG1 - RMRC 006: Encouraging Results were obtained in a 4m-wide zone of shear between 34m and 38m. Nickel and chrome values of 0.15% and 0.3% were returned with values of zinc, cobalt and gold considered to be elevated above background levels.

The remaining six drill holes intersected multiple narrow or weakly mineralised zones which require further analysis.

Refer to the following drilling field report, and relevant compliance notes:



Combined Drilling & Results Report

Introduction

Drilling of 8 exploration drill holes was recently completed at Terrain Minerals Red Mulga Project area in the Murchison region of WA (Figure 1). Four of the drill holes were targeted to test epithermal veins in the northeastern part of the tenement area while the remaining four tested outcrops of mafic/ultramafic rocks in the south.

A total of 936 metres were drilled and samples taken from 1-metre intervals where sulphides were encountered or at lithological changes. A total of 427 samples were taken.

Northern Epithermal Veins

Northern Vein Targets - Holes RMRC 001 to 004

Epithermal quartz veins intrude into the granite gneiss basement in the northeast and central parts of the project area. Two vein trends are identified: a northeast trending set and an east-west trending set.

Northeast Trending Veins

Drill Holes

The first two drill holes. RMRC 001 and 002, targeted two sets of the northeast-trending veins in the north eastern quadrant of the project area (Photograph 1). The holes were drilled about 1.3km apart on separate vein trends. The overall package of lithology intersected in each hole was similar. The holes intersected granite gneiss and thick sections of mafic schist which enclosed the target veins. RMRC 001 intersected 15 metres of schist while in RMRC 002, the intersection was over 50 metres thick. The mafic rocks were not seen in outcrop.

Initial Interpretation from Drilling

At present, it is considered that the epithermal veins are 'late' low temperature emplacements in an earlier zone of northeast striking mafic units which were intruded into the surrounding granite gneiss. The mafics are schistose and have the appearance of a metamorphosed basalt. In addition to the epithermal veins, zones of shear were intersected in the mafic schist adjacent to the epithermal veins. In RMRC 002, two mineralised zones of shearing were encountered immediately above epithermal veins.

Hole - RMRC 001

No strong mineralisation was intersected in the hole. Weakly elevated values of Lead (Pd)/Platinum (Pt), Copper (Cu) and Zinc (Zn) relative to background were encountered at the base of the mafic unit between 95m and 102m downhole.

Hole RMRC 002

Multiple geochemically anomalous intersections occur in this drill hole. Anomalous values of Gold (Au) 98ppb and Cu 0.7% were intersected over 1m downhole in a zone with above background Zn from 53m to 57m (Table 1; Figure 2). The mineralised zone is near the top of a mafic schist unit and is located in a zone of shearing on the upper (hanging wall) margin of a 3m wide epithermal quartz vein. The vein itself does not appear to be highly mineralised.

A 2m zone between 87m and 89m downhole, also within the mafic schist, returned Au of 50ppb and Cu of 0.28% over the 2m intersection. Both results are considered to be anomalous or close to anomalous (Table 1). Elevated values, relative to background levels, of Pb, Lithium (Li) and Uranium (U) were also encountered in this intersection but are not considered to be anomalous. An epithermal vein of about 1m width was encountered at 90m downhole immediately below the mineralised zone.



<u>Table 1</u> Anomalous and weakly above background intersections in RMRC 002 with assays for Au, Cu and Zn.

Downhole Metres	Au (ppb)	Cu (ppm)	Zn (ppm)
49 to 50	6	94	108
50 to 51	1	86	66
51 to 52	<1	160	104
52 to 53	2	212	124
53 to 54	98	7400	116
54 to 55	7	498	122
55 to 56	7	350	196
56 to 57	12	468	40
57 to 58	1	56	20
58 to 59	2	108	18
85 to 86	<1	10	208
86 to 87	25	232	206
87 to 88	58	2910	186
88 to 89	56	2720	242
89 to 90	5	314	54
90 to 91	3	74	38
91 to 92	<1	38	52
Mean	9.81	521.38	121.67
Std Dev	20.25	1,342.60	76.83
2xStd Dev+Mean	50.31	3,188.60	275.33

^{*} Means and standard deviations calculated from all 1m samples assayed for Au, Cu and Zn in RMRC002. Assay values in colour are those exceeding 2x Std Dev + Mean.

Conclusion - Northern Epithermal Veins

The two mineralised intersections in RMRC 002 appear to be anomalous in Au and Cu. The result is viewed by the writer as encouraging. The drill hole provides the first indication of a possible style of mineralisation in the project area: the mineralisation is in shear zones in mafic units **adjacent** to the epithermal veins rather than in the veins themselves. Further exploration work in the area is recommended so that a full evaluation of the mineral potential of the epithermal vein system and the enclosing mafic units can be made.



East-West Trending Veins (Thumbo Well)

Drill Holes

Drill holes RMRC 003 and 004 tested an east-west trending epithermal vein system near Thumbo Well. RMRC 004 is located about 80m east of RMRC 003. The drill holes intersected granite gneiss and at least two mafic sills or dykes. Epithermal quartz was not positively intersected in RMRC 003 while three 1 to 2-metre-thick veins, possibly of epithermal origin, were intersected in RMRC 004.

Hole RMRC 003

Weakly elevated Cu and Zn with Barium (Ba) were intersected in a mafic sill between 37m and 39m. No clear evidence of the targeted epithermal veining was found.

Hole RMRC 004

Above background Cu and Zn were recovered from a mafic sill between 78m and 81m downhole depth (Table 2). However, this anomalism is thought likely to be the result of very low background values in the granite gneiss rather than any particular mineralisation in the mafic intrusion. An interpreted epithermal vein between 86m and 88m returned weakly elevated Cu and Zn (Table 2). The same quartz body was heavily stained by a green mineral not encountered in any of the other drilling intersections in the programme.

Conclusion - East-West Trending Veins (Thumbo Well)

Additional work is warranted along this structure to examine the areas where higher assay results were obtained from rock chip samples found in previous field trips. The positive sample sites are located on the epithermal vein adjacent to the recent drilling and some 300m along strike to the west.



Table 2	Interse	ction	from	76m	to 90	0min	RMRC
004 wit	h assay	s for C	Cu an	d Zn.			

Downhole Metres	Cu (ppm)	Zn (ppm)	
76 to 77	6	14	
77 to 78	16	8	
78 to 79	414	118	
79 to 80	136	160	
80 to 81	176	114	
81 to 82	12	14	
82 to 83	8	8	
83 to 84	8	14	
84 to 85	6	8	
85 to 86	16	14	
86 to 87	40	34	
87 to 88	64	46	
88 to 89	16	8	
89 to 90	12	6	
Mean	29.33	27.11	
Std Dev	67.88	33.22	
2x Std Dev+Mean	165.09	93.54	
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^{*} Means and standard deviations calculated from all 1m samples assayed for Cu and Zn in RMRC004. Assay values in colour are those exceeding 2x Std Dev + Mean.



MG1 & MG2 - MAFIC/ULTRAMAFIC TARGETS

The remaining four drill holes, RMRC 005 to 008, targeted mafic/ultramafic rocks in the southern part of the project area at the targets designated MG1 & MG2.

Target MG1

Drill Holes

Holes RMRC 005 and 006 were drilled at Target MG1. The holes were drilled from the same drill pad at -60° and -50° to 138 and 102 metres respectively (Photograph 2). The mafic/ultramafic units targeted in the drilling were intersected within the first 10m and extended downhole for about 75m. The mafic unit was found to be schistose throughout the intersection.

Alteration

The lower 15m of the mafic unit is highly magnetic and this is attributed to abundant magnetite. This is seen to be a useful marker for any future geophysical surveys. In addition, it was noted in intersections near the top of the hole that the mafic schist appears to have a micro-conglomerate or breccia texture. This is thought to reflect a possible exhalative conduit for an underlying mafic/ultramafic magma chamber.

Shear Zones

Zones of shear were identified in mafic rocks containing moderate to abundant disseminated sulphides. The zones of shear are dipping steeply to the south while the overall dip of the mafic sequence appears to be sub-horizontal.

Hole RMRC 005

The drill hole intersected anomalous Pd/Pt from 23m to 39m in the mafic schist (Table 3). These elevated values are not fully understood at present. The same intersection in RMRC 006, a hole drilled from the same pad at a 10° shallower inclination, intersected the same levels of Pd/Pt only at 32 to 34m and 38m to 40m downhole. The writer's initial opinion is that these elevated values could be explained by the concentration of Pd/Pt in weathering products near the edge of the mafic/ultramafic unit, although weathering was not particularly noted in the drill logging.

Elevated values of Cu and Zn were obtained in the magnetic part of the mafic schist between 70m and 80m downhole. The values are not considered to be anomalous.



<u>Table 3</u> Intersection from 21m to 40m in RMRC 005 with assays for Pd and Pt.

Downhole	Pt (ppb)	Pd (ppb)
Metres	" ' '	,
21 to 22	5	<5
22 to 23	5	<5
23 to 24	25	35
24 to 25	20	20
25 to 26	20	20
26 to 27	20	20
27 to 28	20	25
28 to 29	20	25
29 to 30	20	20
30 to 31	25	20
31 to 32	25	2 5
32 to 33	20	35
33 to 34	25	2 5
34 to 35	25	30
35 to 36	25	20
36 to 37	20	30
37 to 38	30	35
38 to 39	25	30
39 to 40	10	15
	-	
Mean	9.57	10.82
Std Dev	7.62	8.83
2x Std Dev+Mean	24.81	28.47

^{*} Means and standard deviations calculated from all 1m samples assayed for Pt and Pd in RMRC005. Assay values in colour are those exceeding 2x Std Dev + Mean.



Hole RMRC 006

This hole was drilled from the same pad as RMRC 005 but at an inclination of -50° rather than -60°.

Anomalous Ni about 0.15% and Chromium (Cr) 0.3% were intersected between 34m and 38m in a zone of shear within the mafic schist (Table 4; Figure 3). The zone of shear features a highly micaceous component to its fabric while the fabric of the mafic schist resembles a micro-conglomerate or breccia. The same zone of shearing in the adjacent RMRC 005 does not appear to be similarly mineralised.

Further downhole, a highly magnetic part of the mafic schist was intersected between 70m and 80m (Figure 2). Weakly elevated values relative to background of Cu, Zn and Ni were assayed in this interval.

Table 4	Intersection between 32m and 41m
downhol	e in RMRC 006 with assays for Ni and Cr.

Downhole Metres	Ni (ppm)	Cr (ppm)
32 to 33	122	250
33 to 34	1650	2270
34 to 35	1740	2840
35 to 36	1300	3140
36 to 37	1280	3890
37 to 38	1480	5340
38 to 39	328	370
39 to 40	202	260
40 to 41	120	220
	•	
Mean	322.92	701.8
Std Dev	470.19	1213
2x Std Dev+Mean	1263.29	3127.8

^{*} Means and standard deviations calculated from all 1m samples assayed for Ni and Cr in RMRC006. Assay values in colour are those exceeding 2x Std Dev + Mean.



Target MG2

Drill Holes

Holes RMRC 007 and 008 were drilled about 500m east of MG1 at target MG2. The two holes were drilled from the same pad at -50° and -60° to 102m and 108m respectively. The mafic/ultramafic units targeted in the drilling were intersected within the first 20m and extended downhole for about 30m.

Shear Zones

The rocks encountered at MG2 are similar to those in MG1. A zone of shearing containing numerous quartz veins about 4m wide dips steeply to the south at about 40m downhole. As at MG1, the mafic/ultramafic unit has a schistose texture and is relatively flat-lying. Minor to moderate concentrations of disseminated sulphides were observed in the drill cuttings, particularly in the vicinity of quartz veins and zones of shear.

Second Zone of Mafic/ultramafic Rocks

From the earlier outcrop mapping of MG2, a second zone of mafic/ultramafic rocks was expected to be encountered at depth. The drill holes were therefore extended to over 100m depth, but the second unit was not intersected.

Conclusions - MG1 & MG2

The drill results suggest that the mafic/ultramafic units at MG1 and MG2 may not be simple pipe-like structures. While they are likely to have originated as intrusions or extrusions in the granite gneiss terrain, their geometry appears to have been considerably distorted by later plastic deformation and possibly by sub-horizontal thrusting.

The original exploration hypothesis was that the mafic/ultramafic units are sourced from shallow mantle-type magma chambers underlying the Red Mulga area. The drilling results, while inconclusive relative to the above hypothesis, do not disprove it. The intersection of the shear zone in RMRC 006 between 34m and 38m is viewed as particularly encouraging. It may be argued that the prospectivity of the area has been enhanced by the exploration results most notably due to the identification of possible exhalative type micro-structures in the mafic schists and the magnetite alteration at MG1.

It is clear however that the detailed geology is complex and further exploration work and drilling is required.

Geological reports and drilling conducted under the supervision of Dr. R. Russell, MAusIMM



<u>Table 5</u> Drill Hole Information, July Drill Programme, Red Mulga Project

Drill Hole Number	Easting	Northing	Elevation	Azimuth	Dip	Hole Length	Significant Intersection Levels
RMRC 001	357054	6979597	287m	290°	-50	120m	
RMRC 002	357850	6978142	291m	310 ⁰	-60	114m	52m to 57m; 86 to 90m
RMRC 003	356242	6973464	278m	000 °	-50	120m	
RMRC 004	356312	6973475	275m	000°	-50	132m	
RMRC 005	351820	6963016	258m	000 °	-60	138m	
RMRC 006	351820	6963016	258m	000°	-50	102m	34m to 38m; 70m to 80m
RMRC 007	352528	6963002	248m	000°	-50	102m	
RMRC 008	352528	6963002	248m	000°	-60	108m	



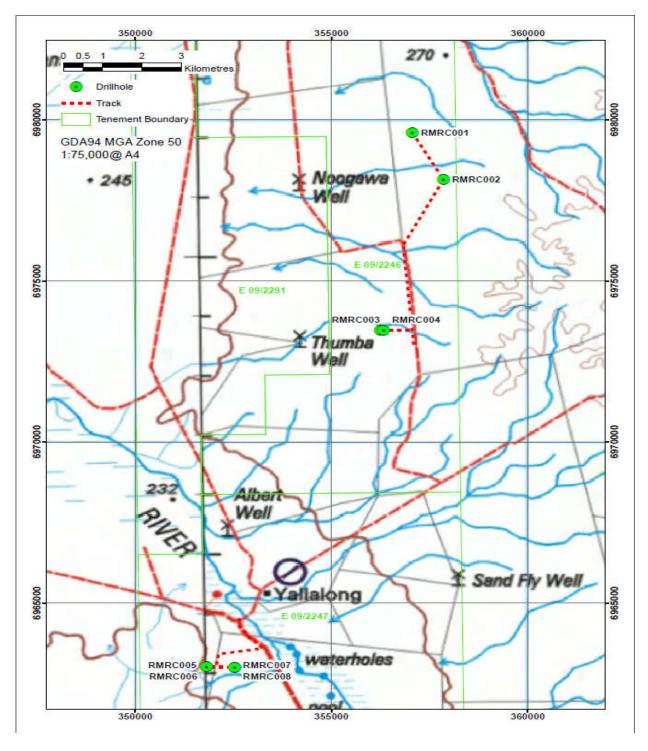
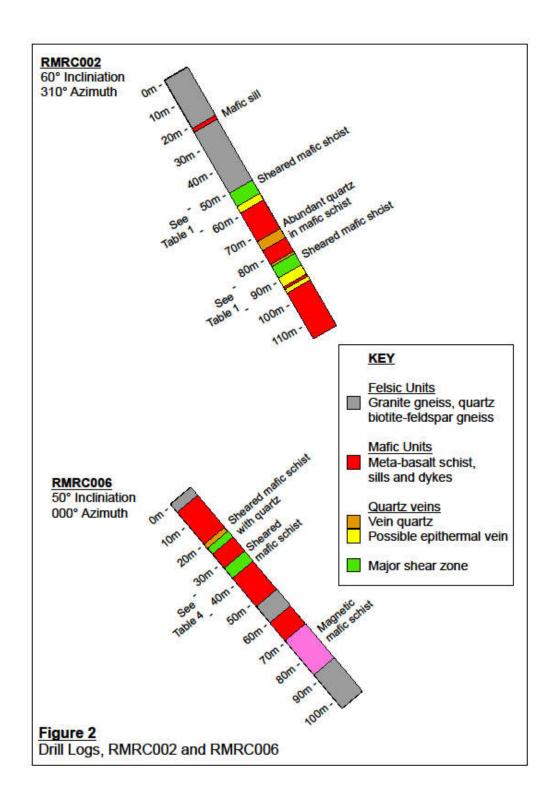


Figure 1: Drill Collar Location Map









Photograph 1: The Shram drill rig at RMRC 002 targeting epithermal veins at inclination -60 degrees, azimuth 310 degrees NW. A considerable thickness of mafic schist was unexpectedly encountered in this drill hole.





Photograph 2: RMRC 005 and RMRC 006 were drilled at target MG1 from the same drill pad at inclinations of -50 degrees and -60 degrees respectively. Outcropping mafic schist and white calcrete can be seen in the foreground. A schistose mafic unit over 70m thick was intersected here.



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ABOUT TERRAIN MINERALS LIMITED:

Terrain Minerals Limited (ASX:TMX) is a minerals exploration company with a Western Australian based asset portfolio consisting of:

- **Great Western** 100% TMX (Au)- near term development opportunity, resource estimation and economic study has shown positive outcomes. Work is now underway to prepare data and work towards getting all mining approvals;
- **Great Western advancement process** is underway with multiple groups who have registered interest in Great Western. These groups have indicated various agendas that included full or partial sale, joint venture and funding arrangements. The board will consider all proposals and has not ruled out mining Great Western itself and continuing regional exploration to add to its gold inventory. A larger sample group of Metalogical sample results are expected shortly.
- Red Mulga Red Mulga project is situated ~170km NNE of Geraldton in the Yilgarn Craton, Western Australia's Murchison region located on Yallalong station. Several filed trips of mapping, rock chip and soil sampling confirmed that the model of mineralisation established from the initial field evaluation and sampling in October 2017 is valid and this under explored area has the potential for base metals.

 Drilling on identified targets have now confirmed the prospectivity of the project, with additional follow up work now underway.
- Project Review: Terrain Minerals is currently searching and has been assessing potential projects:
 Gold, Cobalt/copper Lithium and industrial minerals in West Africa (including Mali), Australia North America and Asia also including other regions. Several jurisdictions of interest have now been identified. All economic commodities are being considered as indicated in previous Quarterly reports.

Compliance Statement:

The Company notes that in reference to the relevant parts within the announcement all the information is referenced directly to the relevant original ASX market releases of that technical data.

Terrain would like to confirm to readers that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of the estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

Disclaimer:

Information included in this release constitutes forward looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue" and "guidance" or other similar words, and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and



project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the company operates or may in the future operate environmental conditions including extreme weather conditions, staffing and litigation

Forward looking statements are based on the company and its management's assumptions made in good faith relating to the financial, market, regulatory and other relevant environments that exist and effect the company's business operations in the future. Readers are cautioned not to place undue reliance on forward looking statements.

Forward looking statements are only current and relevant for the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the company does not undertake any obligation to publicly update or revise any of the forward-looking statements or advise of any change in events, conditions or circumstances one which such statement is based.

Competent Person Disclosures:

The information in this report that relates to Exploration Results is based on and fairly represents information compiled by Dr J. Richard Russell (PhD, MAusIMM), principal of R. Russell and Associates, who is a Member of the Australian Institute of Geoscientists and a consultant to Terrain Minerals Limited. Dr Russell has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Dr. Russell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



	Section 1: Sampling Techniques and Data							
Criteria	JORC Code Explanation	Commentary						
Sampling Technique	Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	Reverse circulation drilling was used to obtain 1m samples from which 2kg samples were pulverised to produce a 40g charge for fire assay. Samples were selective and based on geological observations. The samples were assayed for base and precious metals. The analytical technique used was 49-element scan (ICP-MS, ICP40Q and IMS40Q) and gold fire assay (ICP-MS, FAM 404).						
Drilling	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face- sampling bit or other type, whether core is oriented and if so, by what method, etc).	Reverse Circulation						
Drill Sample Recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	Chip samples recovered by spear (RMRC 001 to 004) and by splitting at the cyclone (RMRC 005 to 008)						
Logging	Whether core and chip samples have been geologically and geotechnical logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. Whether logging is qualitative or quantitative in nature. Core (or costean/Trench, channel, etc) photography. The total length and percentage of the relevant intersections logged.	Qualitative logging carried out over the total meterage drilled (936m).						
Sub-sampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling. Whether sample sizes are appropriate to the grain size of the material being sampled.	N/A - No core collected						



Quality of Assay Data and Laboratory Tests	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	Samples were analysed at Bureau Veritas Minerals Pty Ltd, 58 Sorbonne Crescent, Canning Vale, Western Australia. Samples of 1-2kg were crushed and pulverised and assayed for base metals. Samples were selective and based on geological observations. The analytical technique used was 49-element scan (ICP-MS, ICP40Q and IMS40Q) and gold fire assay (ICP-MS, FAM 404). These techniques were considered a total digestion and analysis. Internal laboratory standards and duplicates reported within expected tolerances. No major discrepancies with the results were identified from this work.
Verification of Sampling and Assaying	The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes The verification of significant intersections by either independent or alternative company personnel. Discuss any adjustment to assay data	Results were verified by the field geologist. No twinned holes were drilled. Primary data was entered into excel spreadsheets. No adjustment has been made to the assay data.
Location of Data points	Accuracy and quality of surveys used to locate drill holes (collar and down- hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used Quality and adequacy of topographic control	Drill hole positions were located using a hand-held GPS to an accuracy of ±5m. Field data were recorded in note books and then entered into a database. The grid system used was MGA94, Zone 50. Topography control is ±20m.
Data Spacing and Distribution	Data spacing for reporting of Exploration Results Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	All drill hole locations are shown in Table 1. The data can be used for mineral resource or reserve estimation as blanks and standard samples were included in the sample sequences. No data compositing has been applied.
Orientation of Data in Relation to Geological Structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	Orientation of the drill holes was planned to intersect with the mapped structures and stratigraphy as close to right angles as possible. By this method, sampling bias was minimised as far as possible.
Sample Security	The measures taken to ensure sample security.	All samples were collected by the Company's consultant and delivered to the assay laboratory by a reliable drilling company and courier service.
Audits or Reviews	The results of any audits or reviews of sampling techniques and data.	No independent audits or review has been undertaken at this stage. Sampling was consistent with industry standards.



	Section 2 Reporting of Explora	ition Results		
Mineral Tenement and Land Tenure Status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	The Red Mulga Project comprises three tenement applications - EL 09/2246, E09/2247 now granted and E70/5011 & E09/2291 These are currently not granted. Native title advertising has commenced and waiting reply.		
Exploration Done by Other Parties	Acknowledgment and appraisal of exploration by other parties.	No historic exploration for base metals has been identified to date.		
Geology	Deposit type, geological setting and style of mineralisation.	The Red Mulga Project is located in the northwestern margin of the Archaean Yilgarn Craton, comprising granite-gneiss and subordinate mafic rocks. The north-south trending Darling Fault lies to the west of the project area.		
Drill Hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: • easting and northing of the drill hole collar • elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar • dip and azimuth of the hole • down hole length and interception depth • hole length • If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	See Table 5		
Data Aggregation Methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	No aggregation or metal equivalents were used.		
Relationship Between Mineralisation Widths and Intercept Lengths	These relationships are particularly important in the reporting of Exploration Results If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	Down-hole width referred to.		
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Relevant diagrams are included in the main body of text.		



Balanced Reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Only moderate and highly mineralised intersections are reported here
Other Substantive Exploration Data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	No other meaningful or material exploration data to be reported at this stage.
Further Work	The nature and scale of planned further work (eg tests for lateral extensions or large scale step out drilling. Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Further field activities at this stage are likely to include additional mapping, ground geophysics, low impact rock chip and soil sampling.



Drilling Logs

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	0 2000000
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	Page 1
Metres	Carrie on self	ENTRY SE JOSE	Control of the contro	150	(A)	870.00		Sec 50
From - To	Lithology 1	Lithology 2	Colour	Texture	400	Comments	Pi .	Samples
0 to 1	Gr.							
1 to 2								
2 to 3	87				Deeply weathe	red		>
3 to 4	J.							2:
4 to 5	Ī							
5 to 6	20				15			6
6 to 7	22				Coffee granule	weathering		5
7 to 8								
8 to 9					5			2
9 to 10	8				Moderately we	athored		
10 to 11					widderately we	athereu		Ž.
11 to 12								5
12 to 13		Quartz			Minor quartz v	eining		
13 to 14		Quartz Abdt			12			
14 to 15		241						
15 to 16								
16 to 17								
17 to 18								
18 to 19	i.							2
19 to 20								
20 to 21	W-198 S							
21 to 22	Granite-gneiss,							
22 to 23	white feldspars, minor grey		L Bn	Sdy	Moderately we	athorod		2
23 to 24	quartz				widderately we	athered		
24 to 25								9
25 to 26								5
26 to 27	22							>
27 to 28								
28 to 29		Quartz	2					
29 to 30	I		0.5					č.
30 to 31	To the second							Ž.
31 to 32								
32 to 33								
33 to 34	S	Quartz Abdt			Quartz vein			¢.
34 to 35		Quartz	50					
35 to 36					Moderately we	athered		
36 to 37	I.e				we are y we	ourereu :		
37 to 38			02		10			3
38 to 39		Quartz Abdt	12		Quartz vein			6
39 to 40		Quartz	13					
40 to 41	8							2
41 to 42	Is:				Moderatel	athorod		2.
42 to 43	Is:				Moderately we	amered		>
43 to 44	I							
44 to 45	25							>



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	0-2-0					
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	Page 2					
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	s	Sample					
45 to 46	+	<u> </u>			-								
46 to 47		500			AND THE STATE OF T			S					
47 to 48	Granite-gneiss	Minor quartz			Slightly weathe	ered		4					
48 to 49	+							E					
49 to 50	Does Enithermal	Quartz	Bn	Sdy	Quartz vein, to	urmaline mica	01	Samples					
50 to 51	Poss Epithermal	Quartz	E .	100	Quartz vein, to	urmanne, mica	M	Samples					
51 to 52	Granite-gneiss	Minor quartz	z Quartz with black flecks										
52 to 53	Granite-gneiss	tviilioi quarte			Santa Mar Sidek Needs			- 3					
53 to 54		-	*	48	3			3					
54 to 55	1							2					
55 to 56	1												
56 to 57	1							S-S-					
57 to 58	1	Black flecked						Samples					
58 to 59	†	quartz			Dark grey quar	tz		Jumpies					
59 to 60	†												
60 to 61	1							- 10 -					
61 to 62	Ouartz-biotite							2					
62 to 63	gneiss		GY				-						
63 to 64	P. Control of the Con	Pink feldspars	23		Felsic interval			3					
64 to 65	1	Pink leluspars	22		reisic interval			3					
65 to 66	- -							5					
66 to 67								ó					
67 to 68		Black flecked			Dark grey quar	17:		5					
68 to 69	1	quartz	quartz	quartz	quartz	quartz	quartz			Dain Bicy qua	B J. dans		
69 to 70	1					ž.							
70 to 71	1							8					
71 to 72	1	- M	2	Gritty	1			-					
72 to 73	Granite-gneiss	Pink feldspars	Gy-Bn		Felsic unit			2					
73 to 74	- 6	500	100					2					
74 to 75		100	10	1									
75 to 76	Quartz-biotite	Black flecked											
76 to 77	gneiss	quartz	Dk Gy		Dark grey quar	tz, black flecks	cont	-					
77 to 78		i i		<u>.</u>	1			U.					
78 to 79		Ť		1									
79 to 80	1							2					
80 to 81	1	CONTRACTOR OF THE PARTY OF THE						2					
81 to 82	Granite-gneiss,	Epidote in	Gn-Gy to		\$2.000 \$2		7270 1 W 1 W 1 W 1 W 1 W 1 W 1 W 1 W 1 W 1	ē.					
82 to 83	quartz epidote	quartz	clear		Epidote in qua	rtz, no black fle	cks, some feldspa	3					
83 to 84								i i					
84 to 85	1							- 1					
85 to 86	1							5					
86 to 87			8	1				A					
87 to 88	1							Samples					
88 to 89	Mafic schist		Bk		Ex-gabbro? Sch	nist							
89 to 90	1				1			108					



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date		
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	Page 3	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	D 18	Comment	5	Sample	
90 to 91	Mafic schist		Bk						
91 to 92	Quartz-biotite							20	
92 to 93	gneiss	Gy quartz	Gy		Gneissic interv	c interval in schist			
93 to 94	8,12,22		3		-2		5		
94 to 95									
95 to 96	I								
96 to 97	Į	Minor chloritic							
97 to 98	Mafic schist	alt	Bk		Chloritic veinin	g in schist		Sample	
98 to 99									
99 to 100	Į								
100 to 101	Ī					85			
101 to 102	Quartz		LGy	1					
102 to 103	epidote gneiss		LGY	LGY				10	
103 to 104			8					8	
104 to 105				23125				0	
105 to 106	Ť				Gritty				0
106 to 107	1								
107 to 108	†					8:			
108 to 109	Ī					e:			
109 to 110	Ī							3.	
110 to 111	Ī				Black flecks in	quartz			
111 to 112	Quartz-biotite gneiss	Wh Feldspar	Dk Gy						
112 to 113	Bueiss	~	67					2	
113 to 114	Ţ							-3:	
114 to 115	Ţ								
115 to 116	Ī							0	
116 to 117	1							11	
117 to 118	1								
118 to 119	1							Sample	
119 to 120	Ī								
EOH			-					12	



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	. Down M	
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	Page 1	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Sample	
0 to 1		ĺ	Rd	Sdy	Surface soil		**		
1 to 2	1		8:	100					
2 to 3	1								
3 to 4	1								
4 to 5	1								
5 to 6	Granite-gneiss		***	- CONTRACT		********			
6 to 7	1		LGY	Sdy/slty	Weathered fels	sic gneiss			
7 to 8	1								
8 to 9									
9 to 10									
10 to 11			0						
11 to 12	Felsic		Rd	Clay	Shear zone, hig	shly weathered	9		
12 to 13			LGy	90					
13 to 14	1]					
14 to 15									
15 to 16									
16 to 17	Granite-gneiss	Quartz	0	Gritty	Kaolinised gran	nite-gneiss			
17 to 18									
18 to 19	1		Rd-Bn						
19 to 20									
20 to 21									
21 to 22	Mafic		-	-		1:11	a ·		
22 to 23	матіс		Dk Gy	Clay	Mafic intrusive, highly weathered				
23 to 24	Quartz-feldspar	Ī		Column 1	Constitution will not all				
24 to 25	gneiss		Bn	Chips	Quartz sill or d	уке			
25 to 26	clay?	Ī	2.		Shear zone, hig	thly weathered			
26 to 27			-51						
27 to 28									
28 to 29	1								
29 to 30									
30 to 31		Feldspars	L Bn-Gy						
31 to 32			- Samuel Samuel						
32 to 33	1								
33 to 34	1								
34 to 35	SA/3:								
35 to 36	Quartz-feldspar		25	Gritty	Weathered qua	artz-fledspar gnei	SS		
36 to 37	gneiss					_			
37 to 38	1								
38 to 39	1								
39 to 40	1		- 92						
40 to 41	1		L Gy-YI						
41 to 42									
42 to 43	1								
43 to 44	1								
44 to 45	1								



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	Page 2
Metres	*************		**********	. 1 1 201-201-001		#10.00 man	the state of the s	ACTION OF THE PERSON OF
From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
45 to 46		0						9
46 to 47		5 2						12
47 to 48	Quartz-feldspar gneiss		L Gy-Yl	Gritty				49
48 to 49	Elleiss	S						8
49 to 50		0 0						
50 to 51					Pyroxenite			
51 to 52		S 90						
52 to 53	Mafic schist	7	Bk					
53 to 54	Wildlic Schist	Garnet	Line .		Diss sulphides, l	high shear zone,	1m returns	Commete
54 to 55					Cu>1% XRF	363		Sample
55 to 56		Serpentinite		1. 1	Serpentinite in	shears		
56 to 57				1				
57 to 58	Quartz		Wh		Epithermal vein	16		
58 to 59				<u>.</u> ,				
59 to 60								S-2
60 to 61	1				Schist not as she	eared as above.	Re-xtalised,	60
61 to 62		2			possible meta-b	asalt		8
62 to 63		S						8
63 to 64		3 - 2			Hi SG, abdt pyro	exenite		
64 to 65		8						0
65 to 66		2						0
66 to 67								3:
67 to 68		0 10						
68 to 69								
69 to 70				Chips				
70 to 71	Mafic schist		Bk	Cimps				2.
71 to 72								
72 to 73],							4:
73 to 74		Quartz			Schist cont			4:
74 to 75	6	S 2						75
75 to 76	9							
76 to 77	9	Quartz						
77 to 78	8	Z						
78 to 79	8	g						
79 to 80								
80 to 81		A A						
81 to 82		2		1				
82 to 83			##85±0					Sample
83 to 84	Quartz-epidote	Quartz-epidote	LGY	1	Shear zone			
84 to 85	schist							
85 to 86					Mica schist			
86 to 87		Epidote	Dk Gy		88 60 88			
87 to 88	Mafic schist				Sheared meta-b	asalt		
88 to 89		Garnet						
89 to 90	Quartz		Wh-L Gy		Vein			



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D 2
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	Page 3
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
90 to 91								
91 to 92	Quartz	Blk flecks	Wh-L Gy		Quartz veins in	Quartz veins in schist		
92 to 93		10 0			o o			SC
93 to 94	Mafic schist	6 0	Bk					Samples
94 to 95	Quartz		Gy]	Minor diss sulp	hides in epither	mal vein	
95 to 96	Quartz		Gy .					
96 to 97					2			
97 to 98	1							
98 to 99	1							
99 to 100]							0
100 to 101]							
101 to 102]			Chips				G:
102 to 103	1			Chips				G:
103 to 104	1							
104 to 105	Mafic schist		Bk		Meta-basalt, m	in an alien mulady in	Inch Inc	
105 to 106	Manc schist		DK.		meta-pasait, m	inor aiss suipn ii	i last 2m	2
106 to 107]							2
107 to 108]							o:
108 to 109	1							4:
109 to 110]							0
110 to 111	1							0
111 to 112]							11
112 to 113]							Camples
113 to 114]			8				Samples
EOH				-				11



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D			
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	Page 1			
Metres			- 1	E 19	3						
From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	1.5	Sample			
0 to 1		7		*	i						
1 to 2	Ť				Highly weather	9:					
2 to 3	t				17 E						
3 to 4	Ť.										
4 to 5	Ť.							10. 10.			
5 to 6	Ť.										
6 to 7	Ť				Weathered						
7 to 8	1				and the second second			8			
8 to 9	1							8			
9 to 10	†							0			
10 to 11	Ť							Ö			
11 to 12	Ī										
12 to 13	Ī			Gritty				81			
13 to 14	Ī			Gritty		55					
14 to 15	Ī				Minor weather	ing					
15 to 16	Ī										
16 to 17	Ţ							2.			
17 to 18	Ţ							2.			
18 to 19	Granite-gneiss	Quartz-mica	L Bn Abdt quartz		Abdt quartz						
19 to 20	Granite-gneiss	Quartz-mica			=:						
20 to 21	Ţ			Minor weathering							
21 to 22	I				COURT - S-EFFE ASSESSED.			0			
22 to 23	I							Minor quartz v	eins		0
23 to 24								8			
24 to 25	I				Minor weather	ing		83			
25 to 26	Ī										
26 to 27	Ī			Clay	Shear zone			8			
27 to 28	Ī			A 3	Minor weather	ing					
28 to 29	Ī				Quartz veins						
29 to 30	1										
30 to 31	1										
31 to 32	1			Gritty	Minor weather	ine		21			
32 to 33	1				THE WESTIE			85			
33 to 34	1										
34 to 35	1										
35 to 36	1				No Weathering			2			
36 to 37	1			Clay	Clay-rich shear	zone in granite	oids. Minor diss				
37 to 38	3	9: 9		- Th	sulph	and Statistic	333				
38 to 39	Meta-basalt	Quartz	Dk Gy	2	205			ės:			
39 to 40				Clay/grit				Samples			
40 to 41				g a							
41 to 42	Quartz granite-		Wh/Bk		No Weathering						
42 to 43	gneiss	flecks	Salvery Salvery	Gritty	Green epidote in quartz						
43 to 44	1			5.50.00 F				8			
44 to 45	I										



Hole Number	Easting	Northing	Altitude	A Committee of the Comm	Inclination	Geologist	Date	Dage 2		
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	Page 2		
Metres	awar er er	Lithology	2019			16.1		- 1		
From - To	Lithology 1	2	Colour	Texture		Comments	is:	Samples		
45 to 46				Gritty	Green epidote	in quartz				
46 to 47	1			Clay/grit	Clay in epidote	quartz vein				
47 to 48	1	Quartz, bk	Quartz, bk flecks							
48 to 49	1	necks		1000000						
49 to 50				Gritty						
50 to 51	Quartz granite-gneiss	Pink feldspar	Wh/Dk Gy			::				
51 to 52	granite-gneiss			Clay/grit		11.06	100			
52 to 53	1				Green epidote	abot				
53 to 54	1								9	
54 to 55	1				Banded qtz/Bk	/Gn/fidspar				
55 to 56										
56 to 57	Feldspar	Quartz, pink	Pk	T.			3			
57 to 58	gneiss	feldspar	E.N.	1.			ii ii			
58 to 59		0		1.0			9			
59 to 60			Gy-Bk				8			
60 to 61	Quartz		Gy-bk				î			
61 to 62	granite-gneiss						(4)			
62 to 63			Dk Gy-Bk							
63 to 64			DR GY-DR							
64 to 65	Quartz		Wh	- 5	Quartz veining		19			
65 to 66					Quarte reming					
66 to 67		200					9			
67 to 68				Gritty			9			
68 to 69							is.			
69 to 70		Epidote					ia ia			
70 to 71		quartz					18			
71 to 72	1						9			
72 to 73			WASASS				2			
73 to 74	Quartz		L Gy				9			
74 to 75	granite-gneiss						ĝ			
75 to 76	I		1				ĵ.			
76 to 77										
77 to 78	l	/0293					ā			
78 to 79	I	Epidote					8			
79 to 80	l	feldspar					8			
80 to 81	l						á	8		
81 to 82	e e		Lanca and							
82 to 83	ł	Fe-stone,	Bn-Cr	-	4					
83 to 84	Mafic	silcrete	at :	Clay	Mafic sill, high	clay, possible s	shear			
84 to 85	ł	40.4	Bk		70 50			Competer		
85 to 86		Chloritic quar		1				Samples		
86 to 87	Quartz			Gritty						
87 to 88	feldspar	Quartz	Gy	-cocsess						
88 to 89	gneiss	CIPREDOX	100							
89 to 90	9	S41 Y	2	10 14			9			



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	O.								
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	Page 3								
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	ř	Samples								
90 to 91			(C)):	Gritty				č.								
91 to 92	Mafic	Fe-stone	Bk		Dyke or sill			Samples								
92 to 93	Ī			Clay				Samples								
93 to 94		200	YI	100	3.53											
94 to 95			QS	FG.				94								
95 to 96	Ī							20								
96 to 97		Bk flecked						20								
97 to 98		quartz	LGy					20								
98 to 99			LGY					41								
99 to 100	Ī							41								
100 to 101			82					0								
101 to 102		Quartz, feldspar		60				0								
102 to 103	Ī	Bk flecked		1				3								
103 to 104		A STATE OF THE PARTY OF THE PAR						8								
104 to 105		quartz	quartz		50					2						
105 to 106	2 W #1															
106 to 107	Quartz-mica granite gneiss												Gritty			
107 to 108	S, unite Bires	Pk feldspar						8								
108 to 109																
109 to 110																
110 to 111			Dk Gy					0								
111 to 112	I		DROY					121								
112 to 113								12:								
113 to 114	I							000								
114 to 115		Bk quartz and						2								
115 to 116	I	Pk feldspar						20								
116 to 117	I							20								
117 to 118	[118								
118 to 119	I							Samples								
119 to 120			Ø 34													
EOH								120								



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D1
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	Page 1
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
0 to 1	Soil		Rd	Sdy	Surface soil			
1 to 2		Ĭ.		Suy	85			
2 to 3	1		Do Cu		Ī			
3 to 4]		Bn-Gy					2 9
4 to 5	1	9		16				2 3
5 to 6]			T				9
6 to 7								
7 to 8	ŀ				Weathered			
8 to 9					weathered			
9 to 10			Bn-L Gy					
10 to 11]		Dir L Gy					
11 to 12								
12 to 13								
13 to 14								
14 to 15]							
15 to 16				1	1			
16 to 17	Granite							
17 to 18	gneiss							
18 to 19			L Gy		Slightly weathered			
19 to 20]							
20 to 21								
21 to 22	[= -			E2			
22 to 23		Feldspar						
23 to 24	ļ			Gritty				
24 to 25								
25 to 26	[Bn-Or					
26 to 27			Take Local VI		ATTACKED ON FLORIDA			
27 to 28					Not weather	red		
28 to 29								
29 to 30				2				
30 to 31	ļ							
31 to 32	ļ							
32 to 33								
33 to 34			Dk Gy					
34 to 35	Mafic				Dyke/sill			
35 to 36	ļ	-	1		100 E0			
36 to 37		Quartz			63			
37 to 38								
38 to 39								
39 to 40								
40 to 41	Granite	Quartz, bk	L Gy					
41 to 42	gneiss	flecks	H-154255					
42 to 43								2 2
43 to 44								3
44 to 45		0			0			2 3



Hole Number	Easting	Northing	Altitude		Inclination	Geologist	Date	Dage 1
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	Page 2
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Sample
45 to 46					1			
46 to 47	Ť	Some feldspar						
47 to 48	Ť	Parada (Alaman 2004)						
48 to 49			1					
49 to 50			000000000000000000000000000000000000000					
50 to 51	Granite gneiss		Dk Gy					-
51 to 52	÷							5
52 to 53	-							5
53 to 54	1							
54 to 55	1							
55 to 56	ž.	81 11		1			-	
56 to 57	Quartz		wh		Epithermal vei	n?		Sample
57 to 58								33
58 to 59	8	- 0		1	Rutile, tourmal	ine in quartz?	-	
59 to 60	į.					,	*	
60 to 61	Ť							5
61 to 62	Ť							-
62 to 63	Ť							
63 to 64	†	Quartz, bk						
64 to 65	t	flecks						
65 to 66	Ť		GY					
66 to 67	Ť							
67 to 68				Gritty				
68 to 69	Granite gneiss			100000000000000000000000000000000000000				
69 to 70	ŧ.	Quartz			Quartz vein		3	:
70 to 71	ŧ.				577255537475			8
71 to 72	F							-
72 to 73	1	0 0		1				
73 to 74	Ī							
74 to 75	†	245 (9)	25023					<
75 to 76	Ť.	Dk quartz	Dk Gy					e e
76 to 77	Ī							
77 to 78	Ī.							
78 to 79				1				ľ
79 to 80	Mafic igneous		Dk Gy-Bk		Meta-dolerite	dyke/sill		
80 to 81			207					
81 to 82				1				
82 to 83		22704/00/05						ľ
83 to 84	Granite gneiss	Bk flecks, epidote quartz	L Gy		Quartz-epidote	e veins		Sample
84 to 85	2	epidote quartz						- State of the P
85 to 86					Abdt Green xta	line epidote		t:
86 to 87			VI BUSINESS OF	1	Milky quartz			
87 to 88	Quartz	8	L Gy-Gn					[
88 to 89	Quartz-feldspar	Quartz	L Gy-Or]	solub E. C.			Ī
89 to 90	gneiss	8 8	Bn	1	High feldspar g	ranite gneiss		



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	Page 5
Metres				-	38	Comments	3	
From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
90 to 91	20			Clay	Shear			
91 to 92	Quartz-	Mica	Bn		2			
92 to 93	feldspar gneiss	Mica		Į.				
93 to 94				1				94
94 to 95	184 184		and the second	Gritty	-			
95 to 96			Bn-Gy		Abt quartz vein	is, milky		Samples
96 to 97			0		0			6 6
97 to 98	Granite gneiss	[98
98 to 99				Clay	Shear			2 9
99 to 100								2 9
100 to 101	1	Quartz						
101 to 102	6 0				8			8 3
102 to 103	i i				Orange feldspa	ır		
103 to 104	i i							
104 to 105	8		L Gy		5			
105 to 106	6							
106 to 107			-					
107 to 108	- R - R	Quartz-			Minor quartz-epidote veins			
108 to 109	Quartz- feldspar gneiss	epidote			Minor quartz-e	pidote veins		
109 to 110	reidspar gneiss		1					
110 to 111	6				Orange feldspar			
111 to 112								
112 to 113	Ĭ.			1	22			
113 to 114	Ĭ l	Bk flecked	127710327					115
114 to 115	6	quartz	Cr-Wh					-
115 to 116	6			Gritty	£.			
116 to 117	P	Epidote	7					
117 to 118			1		Main epitherm	al vein		
118 to 119	Quartz							
119 to 120	H.							
120 to 121		Ī	Wh		4:			
121 to 122	Quartz- feldspar gneiss							
122 to 123	reiuspai gireiss							Complete
123 to 124	Quartz				Narrow epither	rmal vein		Samples
124 to 125	10	Bk flecked	20		2.1		-	Ī
125 to 126		quartz						
126 to 127								
127 to 128	Quartz-		I Gw					
128 to 129	feldspar gneiss		L Gy					
129 to 130	6							
130 to 131								
131 to 132	8		8 3		8			8 8
EOH	8	5	533	355	583		-	132



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	Page 1
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	8	Comments		Samples
0 to 1		*					T.	į.
1 to 2	8						5	
2 to 3	Granite gneiss	Quartz	Rd-Bn		Weathered			
3 to 4								
4 to 5		.c :=						ļ
5 to 6	628				A hade series as because	orine)]
6 to 7	E i	Mica		Abdt mica; shearing?				
7 to 8	Mafic schist	Mica	8k-Dk Gy	Rare mica	35]		
8 to 9	Wildlife Schist		Dr. Dr. Gy	Gritty	5		35]
9 to 10	8	Quartz			Abdt quartz vei	ning, mod diss s	ulph	
10 to 11]
11 to 12	(A)	8			E CONTROL DE SUIT CONTROL DE S			ŀ
12 to 13	Mafic schist	Quartz	LGY		Mafic schist, qu	artz veining		
13 to 14	C-12				-			ļ
14 to 15	i i		1000000		Minor diss sulpl	hides		
15 to 16		Sett 100 89	DkGy			2.0		
16 to 17		Quartz-mica			2000			
17 to 18	Mafic/ultramaf	4	Bk-Dk Gy		Green clay after	rserpentinite		-
18 to 19	ic schist	Abdt quartz		Clay, grit	2.0			
19 to 20	-	Abdt quartz	Dk Gy		Shear zone			
20 to 21			8					-
21 to 22			20042000	-			8	
22 to 23	Quartz		LGY		Quartz vein			Samples
23 to 24 24 to 25	8		8k-Dk Gy		High shear			
25 to 26	8						5	-
26 to 27	ž.							
27 to 28	49				Low shear			
28 to 29	ė:							
29 to 30	£2							1
30 to 31	- C							
31 to 32		Minor quartz						
32 to 33	Mafic/ultramaf			4682537V				
33 to 34	ic schist			Gritty	Serpentinite in	shears	31	1
34 to 35			Dk Gy		2		22	1
35 to 36	8							
36 to 37	100							
37 to 38	- C							
38 to 39	.G				Minor quartz ve	ein		1
39 to 40			1		8			1
40 to 41		Garnet						
41 to 42	20	Abdt garnet	1					
42 to 43		Quartz]				9	1
43 to 44	Owner to		1		Quartz vein, mi	nor diss. Sulph		
44 to 45	Quartz	Mica			100			



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	(PERMITTED
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	Page 2
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Quartz		LGy		-			**
46 to 47	2.		*	3	Minor to moderate diss. sulph			
47 to 48	1							
48 to 49	1							
49 to 50		Quartz			Quartz vein			
50 to 51			1					
51 to 52	1		Dk Gy-Bk					
52 to 53	1		DK GY-ВК					
53 to 54	1				Minor diss sulp	oh		
54 to 55		Minor garnet						
55 to 56			100					
56 to 57]							
57 to 58					5			
58 to 59								
59 to 60	1				Sulphides beco	omine modera	te to abdt	
60 to 61]				Jaipinges seed	and the delication		
61 to 62	Mafic/ultra							
62 to 63	mafic schist							
63 to 64		Quartz			Vein			Samples
64 to 65								
65 to 66	1				Minor diss sulp	oh		
66 to 67	4	C.			100			
67 to 68	-	Mica	Bk	Gritty	==			
68 to 69	-		1.508					
69 to 70	-							
70 to 71	-							
71 to 72	4							
72 to 73	-				E5			
73 to 74 74 to 75	-							
75 to 76	1				to the same of the			
76 to 77	1				Minor diss sulp	oh		
77 to 78	1							
78 to 79	4:	3		4				
79 to 80	1				-			
80 to 81	1							
81 to 82	1							
82 to 83	1							82
83 to 84	Quartz granite	Bk flecked	2000					
84 to 85	gneiss	quartz	LGY					
85 to 86	2.2	=:						
86 to 87	1							
87 to 88	1							
88 to 89	1							8
89 to 90	1							8 - 3



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	Page 3
Metres		0 110 120 1						
From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
90 to 91		1 7						
91 to 92		Bk flecks in	Atto-EWO/					
92 to 93		quartz	L Gy					
93 to 94	1							
94 to 95		*						
95 to 96		Feldspar	Or					
96 to 97								
97 to 98								
98 to 99								
99 to 100				†				
100 to 101			L Gy					
101 to 102	Quartz granite gneiss							
102 to 103	Pineizz							
103 to 104								
104 to 105								
105 to 106		Bk flecks in quartz						
106 to 107								
107 to 108								
108 to 109								
109 to 110								
110 to 111								
111 to 112								
112 to 113								
113 to 114	Mafic	3	Dk Gy	Gritty	Dyke/sill			2
114 to 115		Bk flecks in quartz	L Gy	Circy				
115 to 116								
116 to 117								
117 to 118								
118 to 119								
119 to 120								
120 to 121								
121 to 122								
122 to 123								
123 to 124								
124 to 125	Quartz granite gneiss							
125 to 126								
126 to 127								
127 to 128								
128 to 129								
129 to 130								
130 to 131								
131 to 132								
132 to 133								
133 to 134								
134 to 135								-
135 to 136								-
136 to 137								
137 to 138 EOH		b «	L					
EUH								



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Daniel d
RMRC 006	351820	6963016	258m	000°			16/07/2018	Page 1
Metres					† ·			
From - To	Lithology 1	Lithology 2	Colour	Texture		Sample		
0 to 1		Ì		Ť				
1 to 2			Rd-Bn	Gritty	Weathered			
2 to 3	Granite gneiss							
3 to 4	55							
4 to 5	91	Quartz						
5 to 6	- Mafic schist		†	Clay/silt	5		19	23
6 to 7								
7 to 8				Slightly weathered				
8 to 9					red			
9 to 10								
10 to 11								
11 to 12							100	7
12 to 13								
13 to 14								
14 to 15								
15 to 16								
16 to 17								
17 to 18								
18 to 19	Ī			Gritty				
19 to 20	80							
20 to 21	Quartz	6	Bk-Dk Gy		Quartz vein		- 33	8
21 to 22		Minor quartz Garnet	TO STATE OF THE ST		Highly weathered, shear zone		Samples	
22 to 23								
23 to 24								
24 to 25								
25 to 26								
26 to 27								
27 to 28								
28 to 29								
29 to 30	Mafic schist	Minor milky						
30 to 31	46	quartz						
31 to 32					2			83
32 to 33				<u> </u>	Highly weathered, shear zone			1 85
33 to 34					ANNUAL SANDONES COMMO DECISIO - 2000 P		2	
34 to 35							İ	
35 to 36	8	8	Chlorite Bk	Clay	Moderately weathered. Diss sulph, highly magn			
36 to 37	8							
37 to 38	Dark compact							
38 to 39				Gritty	Fresh black schist			
39 to 40		Chlorite						
40 to 41					Mod diss sulph			
41 to 42	mafic schist				Company on Company and Company			
42 to 43	30				Minor diss sulph			
43 to 44								
44 to 45		1.	1		L			



Hole Number	Easting	Northing	Altitude		Inclination	Geologist	Date	Page 2
RMRC 006	351820	6963016	258m	000°	-50	RR	16/07/2018	Page 2
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	5	Samples
45 to 46	Dk mafic schist	F4 30		Gritty		,		7
46 to 47	is :	8 3		S 3			2	9
47 to 48	1	Mica			High mica; she	ar zone		
48 to 49	dense region			6827				
49 to 50	Mafic schist	Garnet		Clay	Some clay			8
50 to 51	18	1			100% mica			
51 to 52	10	Mica	Bk-Dk Gy		High mica; she	ar zone		8
52 to 53		S	1	Silty	1			
53 to 54		Quartz, bk			1			
54 to 55	1	flecks						
55 to 56	Quartz-mica	Salar Sa						
56 to 57	granite gneiss	Mica						3
57 to 58	AAC.				2 (275) (4.25)			
58 to 59			2200	ic.	Minor diss sulp	in matics		
59 to 60		Mafic chips	GY					3
60 to 61	15	ē.		8				
61 to 62			1					
62 to 63		Quartz						
63 to 64		Quartz						
64 to 65	Mafic schist		Dk Gy		Mafic dominar	it :		
65 to 66	IVIAIIC SCHISE	12.	DKGy					
66 to 67		Less quartz						Samples
67 to 68								CONTRACTOR SERVE
68 to 69		Quartz, mica						
69 to 70		High quartz		As .				8
70 to 71	2							
71 to 72	-			Gritty	Minor diss sulp	h increasing w	ith depth	
72 to 73	į.				CANNOT DE CANONIO			
73 to 74	4							S.
74 to 75	123				More massive			8
75 to 76	Magnetite							
76 to 77					Trace to minor	diss sulph		
77 to 78	1							9
78 to 79								
79 to 80			Bk-Dk Gy		Abundant to m	oderate diss su	ulph	
80 to 81			*					
81 to 82	10	2	-					
82 to 83	-	Mica	-					
83 to 84		-	-					
84 to 85	Quartz-mafic	Garnet	-		High shear zon	100	c. Mod diss	
85 to 86	schist				sulph in places			
86 to 87	2							
87 to 88		4	-					S.
88 to 89	Quartz granite	The state of the s						
89 to 90	gneiss	chips						9



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D 2
RMRC 006	351820	6963016	258m	000°	-50	RR	16/07/2018	Page 3
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
90 to 91	4 6		L Gy					8
91 to 92								2
92 to 93	1							
93 to 94		Quartz Bk flecks	5 0					8
94 to 95		HECKS	5 0					8
95 to 96	Quartz Granite			200				8
96 to 97	gneiss		37	Gritty				
97 to 98		8 9	S (7)					
98 to 99	i i							4:
99 to 100		Feldspar L	L Gy-Or					4:
100 to 101								3
101 to 102	ľ				***			



Hole Number	Easting	Northing	Altitude		Inclination	Geologist	Date	Page 1
RMRC 007	352528	6963002	248m	000°	-50	RR	16/07/2018	rage 1
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	i i	Sample
0 to 1	Soil		Rd	Sdy	Highly weather	red		
1 to 2			Gy					
2 to 3	<u>.</u>	8		ŧ:				2
3 to 4					0.000	100 to		4
4 to 5	Quartz-mica			Gritty	Abundant yello	ow mica		
5 to 6	schist							
6 to 7								1
7 to 8	Ī							
8 to 9		8	1					151
9 to 10	Mica, Quartz			Clay	Major shear zo	ine		
10 to 11	T.		Dk Gy-Bn					
11 to 12	3 9							
12 to 13		Minor mafic chips						
13 to 14		Cinps						
14 to 15	Quartz-feldspar gneiss		1					
15 to 16	Bileiss							
16 to 17	Ī							
17 to 18	ā ē							
18 to 19	3	Quartz garnet			Trace to minor	dies sulah		
19 to 20	5. C	2			rrace to minor	diss suipii		L
20 to 21	1	Garnet						6
21 to 22		Garnet			Abdt diss sulph	1		
22 to 23								I.
23 to 24		Mica garnet			Mod diss sulph	Ϋ́		
24 to 25	1	- Service	1					
25 to 26	1				Trace diss sulp	h		
26 to 27								Samples
27 to 28	1			Gritty	Abdt diss sulph	i		8
28 to 29	1			170				
29 to 30	ļ.		Dk Gy		Minor diss sulp	h		
30 to 31								
31 to 32	Mafic schist							3
32 to 33	+				222 07 02	8		3.
33 to 34	4				More massive			6
34 to 35	+							
35 to 36	1							
36 to 37	1							
37 to 38	1							
38 to 39	1							
39 to 40	+							
40 to 41	+			-				ŝ.
41 to 42	+	Mica, quartz	-					
42 to 43	+		L Gy		Quartz veins w	ith mica		
43 to 44 44 to 45	+							
44 (0 45								-



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Logger trees
RMRC 007	352528	6963002	248m	000°	-50	RR	16/07/2018	Page 2
Metres	Lithology 1	Lithology 2	Colour	Texture	3	Comment		Sample
From - To			- management	3.743437.714				
45 to 46	1				Minor quartz v	eins		
46 to 47	1							-55
47 to 48	-8							
48 to 49	Mafic schist		Dk Gy					
49 to 50	455							Samples
50 to 51	48							8
51 to 52		S 18		is .	End of mafic so	hist		6
52 to 53	1,,							
53 to 54								
54 to 55								5
55 to 56								
56 to 57								-
57 to 58	1							-
58 to 59	Quartz granite	Bk flecked	57054					
59 to 60	gneiss	quartz	L Gy					
60 to 61		- Table 1900						
61 to 62								36
62 to 63								35
63 to 64								
64 to 65								4:
65 to 66								4:
66 to 67		S ::		4				á
67 to 68				Gritty				85
68 to 69	1							
69 to 70								8
70 to 71	Quartz gneiss				No feldspars n	oted, high qua	rtz	
71 to 72	enteres Marcales	Minor mafic	tradation and		SUPERIOR WHEN SHOW			
72 to 73		chips	Dk Gy					
73 to 74		a time to the second						-
74 to 75		8						21
75 to 76								
76 to 77								3
77 to 78	88			20				
78 to 79	88							-
79 to 80	Quartz granite							
80 to 81	gneiss							iái
81 to 82	100							41
82 to 83		Bk flecked						
83 to 84	100	quartz	LGY					0
84 to 85		0						9
85 to 86	100							8
86 to 87	8				Increasing qua	rtz with depth		8
87 to 88	Quartz gneiss							
88 to 89	32							8
89 to 90		Inc bk quartz	Dk Gy	26				29



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	
RMRC 007	352528	6963002	248m	000°	-50	RR	16/07/2018	Page 3
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
90 to 91	Quartz gneiss	Quartz	Dk Gy		Ť			
91 to 92	Quartz gneiss	Quartz		1				
92 to 93				9				
93 to 94								
94 to 95								
95 to 96				Gritty				
96 to 97	Quartz granite			Gritty				
97 to 98	gneiss		Gy					
98 to 99								
99 to 100								
100 to 101								
101 to 102			S					
EOH		•						



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	
RMRC 008	352528	6963002	248m	000°	-60	RR	16/07/2018	Page 1
Metres		************	20		1			-
From - To	Lithology 1	Lithology 2	Colour	Texture		Comments	5	Samples
0 to 1	Soil	š	Rd	Gravel				1
1 to 2	1	†	0	72,5872	†			-
2 to 3	+	-	1					
3 to 4	+		L Gy					
4 to 5	Quartz mica							
5 to 6	schist		3:	Gritty				
6 to 7	†							
7 to 8	†							
8 to 9	Ť	Mica						
9 to 10		2880000	L Bn-Gy		F-010-1770	THE CONTRACTOR OF THE CONTRACT	-34	6-3
10 to 11	Ť		STATE OF THE PARTY		Highly weather	ed; shear zone		
11 to 12	Quartz mica			Clay	No recovery			S.
12 to 13	SOCIETY CONTACTOR							3
13 to 14	†				Quartz vein			3
14 to 15		1	8	Serve .				3
15 to 16		201 127-221	1	Sity				
16 to 17	1	Serpentinite			1			
17 to 18	1		1					
18 to 19	1	Mica,						
19 to 20	1	serpentinite						
20 to 21	1							
21 to 22	1		1					
22 to 23	1							Famolos
23 to 24	1							Samples
24 to 25		Garnet		1				2
25 to 26	I]					
26 to 27					Minor diss sulp	hides		
27 to 28								
28 to 29								8
29 to 30	Mafic schist	Quartz	Dk Gy		Quartz vein			8
30 to 31				Gritty				
31 to 32	1							
32 to 33	1				Autocontro			
33 to 34	1				Minor diss sulp	h		
34 to 35	1							
35 to 36	1							
36 to 37	1			2				2
37 to 38	1				Fe staining			22
38 to 39	4							
39 to 40	4							
40 to 41	1		1					g
41 to 42	1	Quartz	-		Quartz vein			g
42 to 43	4							
43 to 44	4							
44 to 45			67	8 8				000



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D=
RMRC 008	352528	6963002	248m	000°	-60	RR	16/07/2018	Page 2
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	0 83	Comments		Samples
45 to 46	Mafic schist	Quartz	Dk Gy					
46 to 47	Ĭ.	200	20 1120					
47 to 48	1							Samples
48 to 49	1		4 (Sec. 2)					
49 to 50			L GY					
50 to 51								. 5
51 to 52			0	88				2
52 to 53		High quartz	Wh	69.				
53 to 54				Ī	8			
54 to 55			L Gy					
55 to 56	3.5			1,				
56 to 57	9		25	107	Mafic veins, dy	kas Minor		100
57 to 58					ivianic vents, dy	NES. MILIUI		ñ
58 to 59								in a
59 to 60								
60 to 61		Mafic chips, decreasing	Dk Gy		-0:			*
61 to 62		with depth	DRGY					
62 to 63		300-11-04-00-00-0						9
63 to 64								-
64 to 65								40 83
65 to 66]	5		6.5				2
66 to 67							8	
67 to 68	Quartz granite	Quartz, bk	Wh	Gritty	Quartz veining		2	
68 to 69	gneiss	flecks			Quartz venning	2		
69 to 70	9	2	8	0.	8			0
70 to 71	9							No.
71 to 72		Bk flecks						
72 to 73		increasing						
73 to 74								25
74 to 75	1							-0
75 to 76								
76 to 77								-0
77 to 78								
78 to 79	2							
79 to 80	1,		L Gy					
80 to 81			7//					
81 to 82		i.	1					6
82 to 83								
83 to 84								ich.
84 to 85								10
85 to 86	Quartz, bk flecks						10)	
86 to 87							2	
87 to 88							2	
88 to 89	8							70
89 to 90	8 9	0	83	0.0	83			0



Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	D
RMRC 008	352528	6963002	248m	000°	-60	RR	16/07/2018	Page 3
Metres From - To	Lithology 1	Lithology 2	Colour	Texture		Comments		Samples
90 to 91		Quartz bk		2	T		75	
91 to 92	1	flecks						
92 to 93	1	Minor mafics	Ī					
93 to 94	1	2	Ī					
94 to 95	1							
95 to 96]							
96 to 97	1							
97 to 98								
98 to 99	Quartz granite		1.00	Critta				
99 to 100	gneiss	Quartz bk	L Gy	Gritty				
100 to 101		flecks						
101 to 102	1							
102 to 103	1							
103 to 104	1							
104 to 105	1							
105 to 106	1							
106 to 107	1							
107 to 108	1	Quartz	1		Quartz vein		- 8	
EOH	8	**						



Drilling Results

#1 = holes number following number is the corresponding 1-metre interval.

Sample	Au1	Au2	Pt	Pd	Cu	Zn	Со	Ni	Li	Mn	Pb	U	Cr
<u>UNITS</u>	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1 49	1		-5	-5	16	102	20	42	24	466	15	4.2	40
#1 50	-1		-5	-5	32	94	20	34	23.5	524	9	3.3	50
#1 51	-1		-5	-5	26	76	15	24	18	546	26	5.1	40
#1 57	-1		-5	-5	8	78	15	20	26	392	12	2.3	30
#1 58	-1		-5	-5	10	64	10	16	30	362	12	2.8	30
#1 59	-1		-5	-5	66	82	15	18	30	396	12	2.4	30
#1 59 Rpt	-1		-5	-5	68	82	10	16	28.5	376	11	2.4	20
#1 86	-1		-5	-5	14	74	10	16	12.5	832	9	3.6	20
#1 87	1		-5	-5	24	50	15	24	11.5	792	6	4	10
#1 88	1		20	20	124	110	55	80	25.5	1760	2	1.7	90
#1 89	2		20	20	122	96	55	88	23	1610	1	0.8	120
#1 94	1		5	-5	60	72	20	26	8	742	8	3.9	30
#1 95	1		15	15	108	98	50	68	27	1570	3	0.6	90
#1 95 Rpt	1		15	20	104	96	45	70	26.5	1600	3	0.6	100
#1 96	1		20	25	110	100	55	84	22.5	1690	1	0.2	140
#1 97	2		15	20	138	110	55	82	28.5	1730	1	0.1	110
#1 98	1		20	20	114	96	55	70	34.5	1590	2	1.8	120
#1 99	1		20	20	116	100	60	86	25.5	1610	1	0.1	110
#1 100	2		20	20	118	104	55	82	24	1640	-1	0.1	100
#1 101	1		20	20	132	104	55	82	19.5	1650	-1	-0.1	90
#1 102	1		-5	-5	20	76	15	22	14	492	7	1.8	30
#1 102A	IS		IS	IS	12	50	15	48	58	668	302	2.9	80
#1 102B	-1		-5	-5	36	72	15	10	9	236	14	4.2	10
#1 118	1		-5	-5	30	74	15	18	21.5	444	13	3.2	30
#1 119	-1		-5	-5	12	74	10	8	18	420	12	2.6	20
#1 120	1		-5	-5	8	34	5	16	10.5	232	76	19.4	20
#2 49	MISSING												
#2 50	6		10	10	94	108	40	234	27	3010	15	6.8	580
#2 51	1		10	20	86	66	55	232	32.5	1330	10	1.9	30
#2 52	-1		10	5	160	104	50	178	24.5	1140	10	1	180
#2 53	2		15	15	212	124	55	128	29.5	944	11	1.8	80
#2 54	98	86	5	10	7400	116	80	110	25.5	1520	26	3.7	60



#2 55	7		15	15	498	122	60	74	20	1540	7	1.2	70
#2 55 Rpt	6		20	15	490	122	55	72	22	1500	7	1.1	70
#2 56	7		15	15	350	196	60	102	15	1670	31	1.1	80
#2 57	12		-5	-5	468	40	15	18	12	610	46	2.1	30
#2 58	1		-5	-5	56	20	5	24	5	188	50	1.4	30
#2 59	2		-5	-5	108	18	10	14	5.5	304	82	2.8	30
#2 60	3		10	10	166	88	40	82	18	1360	73	4	80
#2 60 Rpt	2		10	10	166	86	35	84	18	1340	68	4	60
#2 75	MISSING												
#2 76	4		30	35	476	262	65	194	23.5	2190	27	0.9	80
#2 77	2		10	10	122	70	15	80	13	728	128	2.7	40
#2 78	2		20	20	58	138	50	152	18.5	1610	35	1.7	160
#2 79	4		20	15	46	128	55	176	26.5	1730	19	2.1	210
#2 80	1		20	15	60	126	55	172	27	1710	22	0.4	200
#2 81	4		20	15	102	194	60	168	25	1940	27	0.4	180
#2 82	5		15	15	330	146	80	444	30	2000	13	0.3	820
#2 83	6		10	5	282	192	85	694	99.5	1710	2	0.3	1430
#2 84	3		10	20	10	224	75	794	122	1380	2	0.2	1460
#2 85	1		5	-5	10	278	70	774	71	1290	11	0.9	1320
#2 86	-1		10	-5	10	208	70	622	90	1430	11	1.1	940
#2 87	25		10	15	232	206	70	732	99	1530	10	1.4	1210
#2 88	58	54	-5	-5	2910	186	70	154	74.5	828	58	3.2	240
#2 89	56	51	-5	-5	2720	242	60	72	63	760	86	3.2	80
#2 90	5		-5	-5	314	54	30	102	33	460	67	13.2	130
#2 91	3		-5	-5	74	38	20	76	21.5	282	118	12.6	70
#2 92	-1		-5	-5	38	52	10	40	11	240	116	14.6	30
#2 93	2		-5	-5	316	12	10	32	8	172	81	13.9	20
#2 94	5		5	5	374	188	70	358	72	1130	63	5	390
#2 95	-1		-5	-5	112	32	15	88	16.5	302	75	8	100
#2 96	-1		-5	-5	52	28	20	58	16.5	324	87	9.6	50
#2 97	2		20	20	80	116	55	156	19	1700	29	2	180
#2 97A	IS		IS	IS	12	48	15	46	53	660	304	3	80
#2 97B	-1		-5	-5	42	74	15	24	9	196	17	4.5	10
#2 113	6		10	5	116	142	50	132	15	1570	44	2	170
#2 114	7		10	10	162	116	55	120	13.5	1610	16	1.2	110
#3 36	-1		-5	-5	96	80	25	24	14	182	14	7.1	30
#3 37	-1		5	5	210	96	35	36	11.5	650	9	17.7	70
#3 37 Rpt	-1		5	5	212	100	35	34	12	660	9	17.8	80



#3 38	-1		10	10	152	50	15	32	11.5	120	10	8.7	80
#3 39	-1		10	5	150	138	60	70	38.5	1410	11	13.2	60
			1	 									
#3 40	-1		-5	-5	54	30	10	22	7	166	36	10.5	10
#3 41	1		-5	-5	110	34	15	34	5	188	40	6.6	30
#3 42	-1		-5	-5	30	18	10	18	13	134	13	3.3	20
#3 43	-1		-5	-5	28	18	10	8	9.5	188	32	3.7	10
#3 44	1		-5	-5	182	18	10	6	6.5	96	60	4.2	10
#3 45	-1		-5	-5	18	12	10	14	4.5	92	47	6.8	10
#3 82	1		-5	-5	6	16	-5	12	2	178	43	7.7	20
#3 82 Rpt	1		-5	-5	4	16	-5	12	2	174	43	7.5	30
#3 83	4		-5	-5	86	66	35	48	11.5	2250	14	41.7	120
#3 84	1		-5	-5	88	118	55	76	71.5	964	8	165	130
#3 85	2		-5	-5	86	108	55	64	18	2680	9	209	140
#3 86	5		-5	-5	28	34	40	42	12	278	10	42.1	90
#3 87	7		-5	-5	36	8	10	8	5.5	114	27	8	10
#3 88	17		-5	-5	18	14	5	6	4	84	36	15	-10
#3 89	1		-5	-5	8	20	-5	10	3.5	116	40	8.8	-10
#3 90	-1		-5	-5	4	28	10	14	4.5	82	47	6.5	-10
#3 91	1		-5	-5	8	38	10	10	4.5	126	45	7.7	20
#3 92	1		15	20	102	112	45	72	61.5	336	28	18	100
#3 93	1		10	15	112	82	35	80	31	460	32	19.6	140
#3 94	-1		-5	-5	14	12	5	14	4.5	102	41	11	30
#3 94A	IS		IS	IS	10	48	15	46	56	676	302	3.1	90
#3 94B	-1		-5	-5	34	62	15	38	8.5	226	16	4.5	10
#3 119	-1		-5	-5	10	40	10	12	11.5	356	37	8.2	10
#3 120	-1		-5	-5	4	38	5	10	11.5	304	34	6.5	10
#4 55	-1		-5	-5	8	36	10	12	8	272	44	8.9	20
#4 56	-1		-5	-5	8	18	10	12	4	580	63	12	20
#4 57	-1		-5	-5	8	14	-5	16	3.5	124	50	5.6	30
#4 58	1		-5	-5	12	22	5	12	5	174	51	4.1	30
#4 59	-1		-5	-5	50	32	10	16	13	850	45	10.5	30
#4 77	-1		-5	-5	6	14	10	8	13	178	14	13.1	30
#4 78	6		-5	-5	16	8	10	12	14.5	92	8	10.7	20
#4 79	14		10	10	414	118	55	78	60	694	9	38.7	70
#4 80	2		5	5	136	160	55	52	79.5	2130	8	62.5	70
#4 81	3		10	10	176	114	50	64	63.5	1310	8	51.3	70
#4 81 Rpt	3		10	10	176	112	55	64	63	1310	7	50.6	70
·			-5	-5	12	14		6	9				20
#4 82	-1	1	-5	-5	12	14	10	O	פ	718	12	10.6	20



#4 83	-1	-5	-5	8	8	5	8	6	132	11	14	10
#4 83 Rpt	-1	-5	-5	8	10	5	6	7	128	10	14.9	10
#4 84	1	-5	-5	8	14	10	16	14.5	412	4	7.7	10
#4 85	-1	-5	-5	6	8	-5	12	7	934	14	23.1	-10
#4 86	1	-5	-5	16	14	10	8	9.5	464	11	19.1	10
#4 87	4	-5	-5	40	34	35	56	20	1890	90	55.4	100
#4 88	3	-5	-5	64	46	35	60	8	6640	11	32.4	100
#4 89	1	-5	-5	16	8	5	8	3.5	400	34	15.2	20
#4 90	2	-5	-5	12	6	5	10	3	588	62	38.2	20
#4 90A	IS	IS	IS	5700	20	1050	4110	5	462	43	9.5	120
#4 90B	-1	-5	-5	38	74	15	22	8.5	202	15	4.5	-10
#4 90B Rpt	-1	-5	-5	36	72	15	20	9.5	204	16	4.6	-10
#4 94	-1	-5	-5	50	6	-5	10	7	140	25	5.5	-10
#4 95	-1	-5	-5	20	10	-5	14	3.5	62	22	4.6	10
#4 96	-1	-5	-5	24	8	-5	6	7	152	38	4.3	10
#4 97	-1	-5	-5	38	12	5	10	23.5	686	23	4	20
#4 98	-1	-5	-5	28	12	5	8	4.5	522	52	7.6	-10
#4 115	-1	-5	-5	10	38	-5	10	5	240	36	7	10
#4 116	-1	-5	-5	18	34	10	8	9	236	37	5.3	10
#4 117	-1	-5	-5	6	16	5	14	10	158	12	18.4	-10
#4 118	-1	-5	-5	14	14	5	10	9.5	226	11	4.5	10
#4 119	1	-5	-5	6	18	5	8	2	228	37	10.8	10
#4 120	1	-5	-5	4	26	-5	10	4.5	244	39	10.8	10
#4 121	2	-5	-5	10	22	5	8	2	200	50	27.7	10
#4 122	-1	-5	-5	4	34	5	6	6	288	40	9.8	10
#4 123	1	-5	-5	4	38	10	10	9	264	47	10.5	10
#4 124	-1	-5	-5	6	22	-5	6	3.5	298	9	6.5	10
#4 125	-1	-5	-5	8	36	10	16	4.5	280	25	10	20
#4 126	-1	-5	-5	2	22	10	6	7.5	268	8	5.5	-10
#4 127	1	-5	-5	6	16	-5	10	3	174	43	7.1	10
#4 128	1	-5	-5	6	26	-5	2	3.5	350	31	5.9	20
#4 129	-1	-5	-5	4	32	-5	4	5.5	302	36	5.1	20
#4 130	-1	-5	-5	6	36	5	12	6.5	368	36	6.2	20
#4 131	-1	-5	-5	18	20	5	6	4	186	48	7.7	10
#4 131 Rpt	-1	-5	-5	16	18	-5	6	4.5	188	49	8.3	20
#4 132	-1	-5	-5	10	32	10	14	6.5	418	35	4.2	20
#4 132A	IS	IS	IS	5620	18	1060	4100	5	452	41	8.8	140
#4 132B	-1	 -5	-5	48	82	15	22	10	208	15	4.5	10



<u>шг</u> 1	12	۱ -	۱ -	1 24	1 20	145	ا در	١٨٦	224	12	127	l 50
#5 1	2	5	5	34	30	15	56	9.5	334	12	2.7	50
#5 2	-1	5	-5	28	28	25	58	9	426	9	1.8	40
#5 3	2	-5 -	-5 -	44	36	50	122	20.5	434	9	1.4	40
#5 4	1	5	-5	58	42	25	92	19	308	13	1.4	50
#5 5	1	-5	-5	66	22	20	48	11	146	11	1.6	30
#5 5 Rpt	3	-5	-5	64	24	15	50	10.5	148	11	1.6	20
#5 6	-1	-5	-5	24	16	20	32	6	118	12	2	20
#5 7	1	5	-5	80	68	55	136	17	912	11	2.3	70
#5 7 Rpt	-1	5	-5	76	66	55	140	16.5	912	11	2.3	70
#5 8	-1	5	-5	118	98	45	112	16.5	1380	8	1.6	70
#5 9	-1	5	-5	120	74	35	110	16	1360	7	1.6	90
#5 10	2	5	-5	62	54	55	130	21.5	968	12	2	90
#5 11	1	5	-5	58	50	30	94	18	760	10	2.1	50
#5 12	1	-5	5	58	54	30	82	13	900	7	3.1	60
#5 13	2	5	5	48	52	35	88	14	920	9	3.2	50
#5 14	-1	10	5	34	34	35	64	9.5	1870	27	7.6	30
#5 15	1	-5	10	56	52	40	94	13	1270	9	2.7	40
#5 16	-1	5	-5	48	52	30	90	9.5	780	4	2.1	60
#5 17	1	-5	5	80	50	35	104	9.5	832	3	1.8	70
#5 18	-1	-5	-5	104	58	40	116	10	1270	3	2.6	80
#5 19	-1	-5	-5	48	34	25	68	8.5	662	4	1.8	30
#5 20	-1	10	-5	60	88	55	316	18.5	1160	5	2.4	330
#5 20A	IS	IS	IS	5720	20	1080	4160	5	452	41	9	130
#5 20B	-1	-5	-5	46	76	15	20	8.5	214	16	4.6	10
#5 21	1	-5	-5	106	90	65	124	12.5	1450	4	1.8	80
#5 22	1	5	-5	52	82	40	114	16.5	1290	7	3	60
#5 23	1	5	-5	62	14	15	32	5	342	8	3.2	20
#5 24	1	25	35	36	80	60	110	16.5	1690	2	0.7	230
#5 25	-1	20	20	42	78	55	82	11.5	1530	2	0.3	130
#5 26	1	20	20	196	80	55	80	10.5	1610	2	0.3	120
#5 27	-1	20	20	110	78	50	72	10	1660	2	0.2	110
#5 28	1	20	25	96	82	50	84	11.5	1730	2	0.3	120
#5 29	3	20	25	144	78	60	74	14.5	1720	3	0.2	120
#5 30	1	20	20	68	76	55	80	12.5	1720	2	0.2	90
#5 31	1	25	20	266	88	60	82	18.5	1730	2	0.4	80
#5 32	-1	25	25	38	80	50	78	13.5	1480	2	0.4	110
#5 33	1	20	35	76	80	55	82	14	1600	2	0.3	130
#5 34	1	25	25	92	70	55	90	13	1470	2	0.2	160



#5 34 Rpt	-1	20	30	94	72	50	92	12	1450	3	0.3	170
#5 35	1	25	30	8	78	55	98	17	1710	3	0.4	240
#5 35 Rpt	-1	10	10	8	76	50	102	18	1680	3	0.4	220
#5 36	1	25	20	48	80	50	86	18.5	1540	2	0.3	110
#5 37	2	20	30	32	80	45	84	11	1530	3	0.2	140
#5 38	-1	30	35	20	126	45	138	40.5	1270	8	1	200
#5 39	1	25	30	6	88	45	118	25	1560	2	0.4	220
#5 40	5	10	15	350	178	65	144	55	3250	16	2.3	120
#5 40A	IS	IS	IS	5750	18	1080	4240	5.5	476	41	8.8	130
#5 40B	-1	10	5	36	78	15	16	9.5	204	16	4.3	10
#5 41	2	-5	10	50	134	30	58	22	8600	17	5.9	80
#5 42	3	-5	-5	26	86	25	58	27	4000	11	2.1	50
#5 43	2	5	-5	24	96	30	74	28.5	4090	19	5.7	60
#5 44	2	-5	10	36	22	15	32	10	586	41	20.5	30
#5 45	3	-5	10	188	74	25	88	33	1290	38	7.8	100
#5 46	1	-5	5	14	20	10	28	10	926	49	7.6	30
#5 47	-1	-5	10	74	102	45	120	33	2110	39	6.1	130
#5 48	1	10	5	158	98	45	122	31	2170	16	4	180
#5 49	1	-5	-5	42	64	35	88	17.5	1330	27	5.3	90
#5 50	2	10	-5	58	76	35	80	21.5	1370	25	6	80
#5 51	2	-5	10	28	118	45	106	47	2900	26	2.8	100
#5 52	-1	-5	5	186	132	40	88	31	2720	17	1.9	50
#5 53	-1	5	-5	52	82	25	64	27	1280	35	5.8	30
#5 54	-1	-5	10	64	80	40	130	20	1660	15	3.1	220
#5 55	1	10	5	44	60	25	64	16.5	978	40	7.3	60
#5 56	1	-5	-5	60	92	45	100	16.5	1530	13	1.8	120
#5 57	-1	-5	10	80	86	50	108	17	1980	14	1.6	130
#5 58	-1	-5	10	56	76	40	142	18	1550	15	1.7	120
#5 59	3	-5	10	92	88	35	108	16	1480	19	2	90
#5 59 Rpt	1	5	-5	94	90	35	100	15	1500	19	2.1	100
#5 60	2	5	5	134	96	35	66	22.5	1390	14	1.8	40
#5 60 Rpt	1	5	10	138	98	35	66	22.5	1380	14	1.8	40
#5 60A	IS	IS	IS	5450	18	1030	4140	5	442	41	9	130
#5 60B	-1	-5	10	46	68	15	22	9	192	15	4.3	10
#5 61	2	10	10	54	74	40	64	31	1190	11	1.6	20
#5 62	5	15	15	138	90	40	116	14.5	1210	10	1.6	80
#5 63	3	10	15	66	64	40	94	16	940	17	3.6	90
#5 64	1	10	10	42	56	25	66	23	766	24	9.6	70



#5 65	1	10	10	42	88	40	140	25.5	1220	14	1.8	130
#5 66	-1	10	10	74	74	40	142	24	1210	14	1.3	130
#5 67	1	10	15	56	80	40	136	27	1260	12	1.1	130
#5 68	2	10	15	18	86	35	136	28.5	1270	13	2.7	160
#5 69	1	10	10	46	76	25	60	26	830	22	4.5	70
#5 70	1	10	20	162	104	45	116	13	2060	13	1.8	120
#5 71	-1	-5	5	136	122	50	54	18.5	1750	7	3.9	20
#5 72	2	10	10	338	98	45	92	31.5	1610	15	6.9	100
#5 73	2	-5	-5	140	156	60	82	21	1520	8	8.3	30
#5 74	2	-5	5	98	136	55	54	17	1630	7	2.3	20
#5 75	1	-5	5	106	136	50	40	34	1680	7	2	20
#5 76	-1	-5	-5	136	130	55	50	22	1640	8	3.7	20
#5 77	-1	-5	5	132	128	60	50	19	1830	5	3.2	20
#5 78	1	-5	-5	132	142	55	54	22	2380	4	8.6	10
#5 79	2	-5	10	128	128	50	48	18	1720	4	2.9	20
#5 80	-1	-5	-5	88	96	35	38	38	1230	12	3.8	20
#5 81	1	-5	-5	4	32	10	8	21.5	356	33	3.8	20
#5 81 Rpt	2	-5	10	2	34	5	8	22	362	33	3.7	20
#5 82	-1	-5	-5	2	26	5	6	12.5	306	34	5.3	10
#6 1	-1	5	5	38	52	40	126	14.5	594	10	2.1	50
#6 2	4	-5	5	32	32	60	118	14.5	464	8	1.3	30
#6 3	2	-5	5	22	16	15	72	16.5	108	9	1.4	20
#6 4	2	5	10	30	22	60	110	22	196	11	1.2	40
#6 5	-1	5	5	22	14	15	44	10.5	132	14	2.1	20
#6 6	3	5	-5	64	36	45	94	19.5	512	10	1.3	50
#6 7	2	5	10	64	84	35	114	16	1450	5	0.9	110
#6 7 Rpt	3	5	5	60	78	40	112	17	1420	5	1	110
#6 8	2	-5	-5	84	56	30	88	22	984	5	1.2	60
#6 9	2	-5	-5	48	52	35	104	19.5	970	5	1.4	70
#6 10	3	10	-5	80	56	45	114	15.5	1380	4	1.1	100
#6 11	3	-5	5	64	94	45	108	22.5	866	16	4	40
#6 12	2	-5	5	46	54	45	110	28.5	740	14	2.9	50
#6 13	4	-5	5	54	60	35	120	27	1080	10	2.8	90
#6 14	13	-5	10	48	46	25	78	20.5	1090	9	3.8	70
#6 15	-1	-5	5	26	46	30	66	17	1100	8	2.1	40
#6 16	7	-5	5	40	62	40	100	17	1010	7	2	100
#6 17	3	5	10	46	104	40	118	20.5	1140	8	2.2	60
#6 18	2	5	-5	20	100	35	108	22.5	896	9	2.2	70



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#6 19	-1		10	-5	16	62	25	72	19.5	916	14	4.3	30
#6 20	-1		-5	5	20	80	40	86	29	1390	11	2.1	30
#6 20A	IS		IS	IS	5620	20	1030	4180	6.5	460	38	7.7	130
#6 20B	1		-5	-5	42	70	15	18	17.5	218	14	3.3	10
#6 21	-1		10	-5	34	46	20	54	12	878	21	8.3	20
#6 22	3		-5	5	68	80	45	92	14	1050	7	3.2	60
#6 23	7		5	10	114	106	55	126	22.5	2260	7	3.1	80
#6 24	7		-5	-5	58	64	30	76	16	3490	5	2.2	70
#6 25	-1		5	5	16	68	25	60	26	2250	5	1.9	50
#6 26	2		-5	5	58	40	20	40	15.5	1980	4	1.6	40
#6 27	8		-5	-5	26	44	25	56	21	1370	4	1.2	50
#6 27 Rpt	5		-5	-5	28	40	25	54	22	1370	4	1.2	40
#6 28	2		5	10	84	66	35	68	23	1660	4	1.7	80
#6 29	-1		10	5	64	82	45	100	34	1560	7	1.3	130
#6 30	2		5	5	38	94	60	434	53.5	1680	8	2.4	990
#6 31	-1		-5	10	98	46	30	78	25	1040	5	1.1	80
#6 32	-1		25	35	38	80	55	114	26	1390	3	0.2	240
#6 33	-1		20	30	46	78	50	122	17.5	1380	5	0.4	250
#6 34	6		5	10	20	152	75	1650	13.5	1420	3	0.7	2270
#6 35	-1		-5	5	20	148	90	1740	40.5	1690	3	1	2840
#6 36	5		10	5	60	116	100	1300	8.5	2670	1	3	3140
#6 36 Rpt	2		10	10	58	120	105	1310	8.5	2660	1	3	3150
#6 37	9		5	-5	92	134	90	1280	6	3280	-1	5.2	3890
#6 38	12		15	10	144	154	120	1480	5	6890	7	2.8	5340
#6 39	6		20	20	46	76	75	328	48	1890	4	0.4	370
#6 40	-1		20	30	14	94	80	202	54	1870	5	0.4	260
#6 40A	IS		IS	IS	5490	20	1020	4160	6.5	454	38	7.9	140
#6 40B	1		-5	5	50	72	15	34	11.5	216	14	3.4	10
#6 41	3		15	20	62	64	60	120	23.5	1830	4	0.2	220
#6 42	1		15	20	108	60	55	106	13	1710	2	0.2	190
#6 43	-1		15	20	122	66	55	84	11	1590	2	0.1	150
#6 44	-1		15	20	118	68	55	76	12.5	1730	2	0.1	130
#6 45	1		15	20	144	84	60	82	12	1750	3	0.3	150
#6 46	-1		15	15	106	72	50	80	13	1740	4	0.7	130
#6 47	-1		15	20	124	68	55	78	10	1690	5	0.2	120
#6 48	-1		15	20	56	100	55	142	21.5	1600	5	0.8	280
#6 49	-1		-5	-5	4	132	75	624	68.5	1740	3	7.3	1310
#6 50	1		15	15	4	88	55	300	23.5	2270	5	3.7	950



#6 51	-1	-5	-5	6	86	85	884	57	1200	4	2	2100
#6 52	-1	-5	5	12	86	55	298	30	1480	5	1.6	730
#6 52 Rpt	-1	-5	5	12	88	55	298	29	1470	5	1.4	760
#6 53	-1	-5	-5	14	52	30	108	28.5	822	11	2.7	250
#6 54	-1	-5	-5	14	50	30	76	38.5	974	13	2.1	120
#6 55	-1	-5	-5	6	102	35	74	52.5	1430	13	2.1	80
#6 56	-1	-5	-5	22	114	30	88	44.5	1020	15	3.2	110
#6 57	-1	-5	-5	80	114	30	104	40	1050	24	7.1	140
#6 58	-1	-5	-5	206	140	45	120	48	1600	17	3.9	180
#6 59	-1	5	-5	46	66	30	76	36	1050	28	2.7	130
#6 60	-1	-5	-5	92	74	40	88	28	1210	25	2.8	100
#6 60A	IS	IS	IS	5640	20	1030	4130	6.5	462	47	7.9	150
#6 60B	-1	-5	-5	48	72	15	38	27	214	14	3.3	10
#6 61	1	-5	-5	96	118	25	52	23	980	32	4.7	50
#6 62	1	-5	-5	58	102	35	52	27	1270	15	3.4	40
#6 63	2	10	10	48	68	35	94	15	988	14	1.4	100
#6 63 Rpt	1	10	5	46	70	35	90	15.5	1010	14	1.4	110
#6 64	-1	5	-5	38	62	30	82	26.5	900	19	2.7	120
#6 65	-1	5	-5	48	68	40	128	26.5	1100	13	1.6	150
#6 66	-1	5	5	48	72	45	150	27	1240	9	0.8	180
#6 67	1	5	-5	36	88	40	142	34	1340	10	1.1	190
#6 68	-1	5	5	48	82	45	110	24	1250	11	1.3	130
#6 69	-1	10	15	66	104	45	124	42.5	1570	11	1.6	180
#6 70	-1	-5	-5	34	64	20	50	38.5	766	23	4.6	90
#6 71	-1	-5	-5	128	120	55	56	26.5	1630	8	2	40
#6 72	-1	-5	-5	118	118	50	44	22	1580	5	1.3	20
#6 73	-1	-5	-5	114	144	50	36	24.5	1650	5	1.7	20
#6 73 Rpt	-1	-5	-5	118	144	50	36	24.5	1700	5	1.7	20
#6 74	-1	-5	-5	116	132	50	48	25.5	1550	7	2.6	20
#6 75	-1	-5	-5	152	136	55	50	22.5	1390	7	3.8	20
#6 76	-1	-5	-5	132	134	55	60	24.5	1490	7	3	10
#6 76 Rpt	1	-5	-5	136	130	55	62	25.5	1520	7	3	10
#6 77	-1	-5	-5	150	132	60	56	24.5	1550	5	2.1	10
#6 78	-1	-5	-5	174	126	55	58	24	1700	5	1.8	20
#6 79	-1	-5	-5	224	186	55	46	29	1810	5	1.2	20
#6 80	-1	 -5	-5	138	138	55	52	23	1720	5	2.6	10
#6 80A	IS	IS	IS	5630	18	1020	4150	6	468	40	7.9	140
#6 80B	-1	-5	-5	46	72	15	30	11.5	206	14	3.6	10



#6 81	1	-5	-5	144	148	55	54	37	1710	7	4.5	20
#6 82	-1	-5	-5	140	134	55	52	23	1880	8	2.2	20
#6 83	5	5	5	80	138	55	162	45.5	1830	10	2.8	300
#6 84	4	10	10	56	104	60	280	45	1830	9	2.8	480
#6 85	-1	5	5	26	132	50	238	54	10100	15	4.2	410
#6 86	4	15	10	48	124	60	248	35.5	2130	9	1.6	420
#6 87	2	10	10	116	108	55	154	29.5	1860	8	0.6	270
#6 88	1	-5	-5	54	52	20	32	37.5	764	14	3.3	30
#6 89	-1	-5	-5	42	52	10	14	32	414	27	3.6	20
#6 90	-1	-5	-5	12	40	10	10	16	378	35	2.2	10
#7 8	1	-5	-5	10	14	5	8	8	198	44	5.5	20
#7 9	1	-5	-5	24	96	20	36	24	952	26	2.4	30
#7 10	-1	-5	-5	30	128	55	362	34	996	15	2.2	170
#7 11	1	-5	5	18	136	65	538	29	1260	4	3.2	1770
#7 12	-1	-5	-5	2	130	75	354	30.5	1840	3	0.9	1600
#7 13	-1	-5	-5	4	108	70	330	33	1560	7	1	1180
#7 14	-1	-5	-5	2	102	55	284	41.5	1830	11	1.6	810
#7 15	-1	-5	-5	32	110	35	162	22.5	1230	24	1.6	120
#7 16	3	10	10	60	110	50	186	14	2490	15	1.1	200
#7 17	7	-5	-5	56	42	15	70	13	532	45	2.4	50
#7 18	2	10	5	40	88	45	168	14.5	1630	13	1.1	170
#7 18 Rpt	2	10	5	40	88	45	172	14.5	1640	15	1.1	180
#7 19	1	-5	5	90	152	40	110	27	1230	29	2.7	210
#7 20	1	-5	-5	88	136	45	112	31.5	1430	27	3.6	220
#7 21	1	5	5	94	150	55	136	31	1370	29	3.9	250
#7 22	2	5	5	94	180	50	144	30.5	1370	31	5.9	230
#7 23	2	5	5	102	134	50	154	30	1270	28	4	240
#7 24	2	5	5	86	152	50	162	37.5	1510	27	2.9	370
#7 25	2	5	-5	168	204	40	124	44.5	1320	41	3	240
#7 26	1	-5	-5	78	130	45	96	42.5	1500	19	4.3	90
#7 27	1	5	-5	104	120	45	116	31	1560	19	4.3	130
#7 28	1	-5	-5	64	142	50	142	27	1410	17	7.9	120
#7 28 Rpt	1	-5	-5	62	136	45	140	26	1390	20	7.8	120
#7 29	1	-5	-5	84	118	45	116	38.5	1480	19	6.6	70
#7 30	-1	-5	-5	68	106	45	80	39.5	1390	14	3.7	70
#7 30A	IS	IS	IS	5450	20	1070	4230	5.5	476	40	8.2	140
#7 30B	-1	-5	-5	38	74	15	20	11	210	14	3.8	10
#7 31	1	5	5	58	78	40	140	24.5	1300	13	4	290



#7 32	1	5	5	54	66	35	90	23.5	1300	14	2.9	170
#7 33	1	-5	-5	62	88	40	88	26.5	1420	14	3.3	120
#7 34	2	-5	-5	252	90	40	80	18.5	1440	16	3.1	100
#7 35	2	-5	-5	74	88	35	58	23	1160	16	2.6	40
#7 36	2	10	5	54	66	40	104	20	1140	10	1.9	130
#7 37	2	5	-5	76	56	30	90	18	900	22	2.2	130
#7 37 Rpt	1	-5	-5	74	56	35	98	18	904	21	2.2	120
#7 38	1	10	5	56	80	45	116	20	1270	11	1.9	210
#7 39	3	5	-5	110	76	40	84	23	1190	23	3.2	130
#7 40	2	15	15	176	130	55	136	17	2440	11	2.7	200
#7 41	3	10	10	156	96	55	324	40.5	1480	10	1.1	410
#7 42	2	15	15	94	86	55	210	29	1430	12	2.9	260
#7 42 Rpt	2	15	10	90	82	50	206	28.5	1420	12	2.9	250
#7 43	1	10	10	138	62	35	84	22.5	1030	23	2.7	100
#7 44	1	10	10	66	88	50	204	48	1550	12	0.9	440
#7 45	1	-5	5	54	58	45	162	63.5	10600	22	4.6	240
#7 46	1	-5	-5	14	34	10	32	66	730	20	5.8	30
#7 47	-1	-5	-5	8	28	10	18	54	372	16	7.2	20
#7 48	-1	-5	-5	12	52	10	18	60	532	17	6.9	30
#7 49	-1	-5	-5	20	42	10	24	56.5	514	16	5	40
#7 50	-1	-5	-5	4	38	10	10	40.5	320	25	5	20
#7 51	-1	-5	-5	8	44	10	8	38	438	50	17.4	20
#7 52	-1	-5	-5	8	48	5	8	37.5	376	38	9.8	20
#7 53	1	-5	-5	26	76	10	10	56	518	35	5.8	10
#7 54	1	-5	-5	6	52	5	6	25.5	330	38	2.8	10
#7 60A	IS	IS	IS	5400	16	1000	4100	6	420	39	7.8	130
#7 60B	1	-5	-5	40	66	15	22	10.5	202	15	3.8	-10
#8 1	3	-5	-5	50	60	20	56	23	1420	16	1.7	120
#8 2	5	-5	-5	44	76	20	44	24.5	3930	13	2.3	50
#8 3	5	-5	-5	34	78	20	44	25.5	4620	15	1.9	50
#8 4	2	-5	-5	26	44	15	32	26.5	1880	10	2	30
#8 5	1	-5	-5	38	104	25	46	39	4380	12	2	40
#8 6	2	-5	-5	38	62	15	24	32	2460	13	5.5	20
#8 6 Rpt	2	-5	-5	40	58	15	26	31	2490	13	5.6	20
#8 7	2	-5	-5	14	54	15	28	27	1490	8	4.6	20
#8 8	1	-5	-5	84	58	15	38	21.5	2110	21	3.9	40
#8 9	2	-5	-5	76	86	30	64	28.5	2570	20	1.6	50
#8 10	2	-5	-5	104	96	35	70	21.5	1500	19	1.1	100



#8 11	1		-5	-5	18	90	25	94	16.5	1210	32	2.1	90
#8 12	-1		-5 -5	-5 -5	2	140	65	332	38	1640	9	1.2	1410
#8 13	-1		-5 -5	-5 -5	6	108	50	264	35.5	1450	24	2.2	850
#8 14	1		-5 -5	-5 -5	16	62	25	154	22.5	784	41	3	320
#8 15			5	5	76	82	50	230	18	1510	29	2.9	160
#8 16	2		5	-5	80	78			14			2.9	110
	<u> </u>		†				30	152		1130	28	<u> </u>	
#8 17	5		5	-5	32	58	25	116	11.5	958	32	2.2	90
#8 18	2		-5	-5	116	150	35	128	35.5	1140	28	2.6	200
#8 19	2		-5	-5	96	152	55	138	33.5	1260	31	3	240
#8 20	2		-5	-5	94	148	40	120	41.5	1310	37	3.2	220
#8 20A	IS		IS	IS	5470	18	1010	4190	6.5	444	41	8.3	140
#8 20A Rpt	IS		IS	IS	5400	18	1000	4170	6	446	40	8.1	130
#8 20B	-1		-5	-5	42	52	10	30	21.5	358	28	3.1	10
#8 21	1		-5	-5	98	158	45	130	35	1160	33	6.1	160
#8 22	2		-5	-5	84	132	40	116	36	1300	33	3.9	170
#8 23	1		5	5	104	144	50	126	38.5	1470	28	2.4	230
#8 24	6		5	-5	104	180	50	126	41.5	1690	31	3.7	180
#8 25	32	32	-5	-5	144	166	45	128	47	1280	35	6.5	110
#8 26	2		5	5	76	146	40	140	36.5	1280	40	3.8	200
#8 27	2		-5	-5	96	170	50	128	33	2040	19	3.7	140
#8 28	1		-5	-5	108	114	45	76	36	1910	15	5.1	50
#8 29	3		5	-5	122	120	45	128	27	1850	14	2.9	180
#8 30	-1		-5	-5	42	72	35	80	21.5	1120	17	4	100
#8 31	1		-5	-5	76	90	45	112	17.5	1580	11	4	120
#8 32	1		-5	-5	100	80	40	100	15.5	1220	15	2.7	110
#8 33	3		-5	-5	62	90	40	58	28.5	1240	19	3.1	30
#8 34	1		5	10	54	74	40	126	22	1190	11	1.2	170
#8 35	4		5	5	40	72	40	100	18	1180	13	1.6	110
#8 36	1		-5	-5	24	64	30	80	17	966	24	2.6	120
#8 37	3		5	10	406	74	40	100	16	1130	20	2.4	140
#8 38	3		10	10	192	118	50	132	11.5	2120	9	2.1	140
#8 38 Rpt	3		10	10	192	114	55	124	11	2140	8	2	160
#8 39	2		10	10	160	130	55	190	28	2450	15	2.9	280
#8 40	1		-5	-5	28	46	20	66	32	1250	35	8	70
#8 40A	IS		IS	IS	5670	20	1040	4180	5.5	458	40	8.8	140
#8 40B	1		-5	-5	34	56	10	18	21	344	29	2.8	10
#8 41	1		-5	-5	66	42	15	26	32.5	404	17	7	20
#8 42	-1		-5	-5	12	36	5	16	27.5	308	20	6	20



#8 50 Rpt	-1	-5	-5	4	48	5	14	22	350	40	4.2	20
#8 50	1	-5	-5	4	46	5	10	22	354	40	4.3	20
#8 49	-1	-5	-5	16	52	5	10	21.5	392	41	6.2	10
#8 48	-1	-5	-5	58	54	5	14	30	436	44	6.9	20
#8 47	-1	-5	-5	14	50	5	14	26	324	41	7.9	20
#8 46	-1	-5	-5	14	50	10	16	34.5	392	28	5.8	30
#8 45	1	-5	-5	10	62	5	10	46	710	31	12.8	10
#8 44	-1	-5	-5	10	50	5	14	33.5	432	24	5.2	20
#8 43	-1	-5	-5	12	38	5	18	34.5	412	21	9.2	20

Sample Preparation

The samples have been sorted and dried. Primary preparation has been by crushing the whole sample. The samples have been split with a riffle splitter to obtain a sub-fraction which has then been pulverised in a vibrating pulveriser.

Analytical Methods

The samples have been analysed by Firing a 40 gm (approx) portion of the sample. Lower sample weights may be employed for samples with very high sulphide and metal contents. This is the classical fire assay process and will give total separation of Gold Platinum and Palladium in the sample.

Au1, Au2. Pt, Pd determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

The sample(s) have been digested and refluxed with a mixture of Acids including Hydrofluoric Nitric Hydrochloric and Perchloric Acids. This extended digest approaches a Total digest for many elements however some refractory minerals are not completely attacked. Cu Zn Co Ni Mn P Sc V Al Ti determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

The sample(s) have been digested and refluxed with a mixture of Acids including Hydrofluoric Nitric Hydrochloric and Perchloric Acids. This extended digest approaches a Total digest for many elements however some refractory minerals are not completely attacked. As Ag Ba Be Bi Cd Ga Li Mo Hf Zr Ce determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

