ASX RELEASE

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ASX: TMX

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 along-strike 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. These results are considered to be the first positive indications of mineralisation in the area. 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: Positive Results 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.

Table 1 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 Intersection from 76m to 90m in RMRC 004 with assays for Cu and 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**

* 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^{O} and -50^{O} 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^{O} 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.

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

Downhole Metres	Pt (ppb)	Pd (ppb)
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**	**25**
32 to 33	20	**35**
33 to 34	**25**	**25**
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^{O} rather than -60^{O}.

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 downhole 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^{O} and -60^{O} 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

Table 5 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°**	**-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	

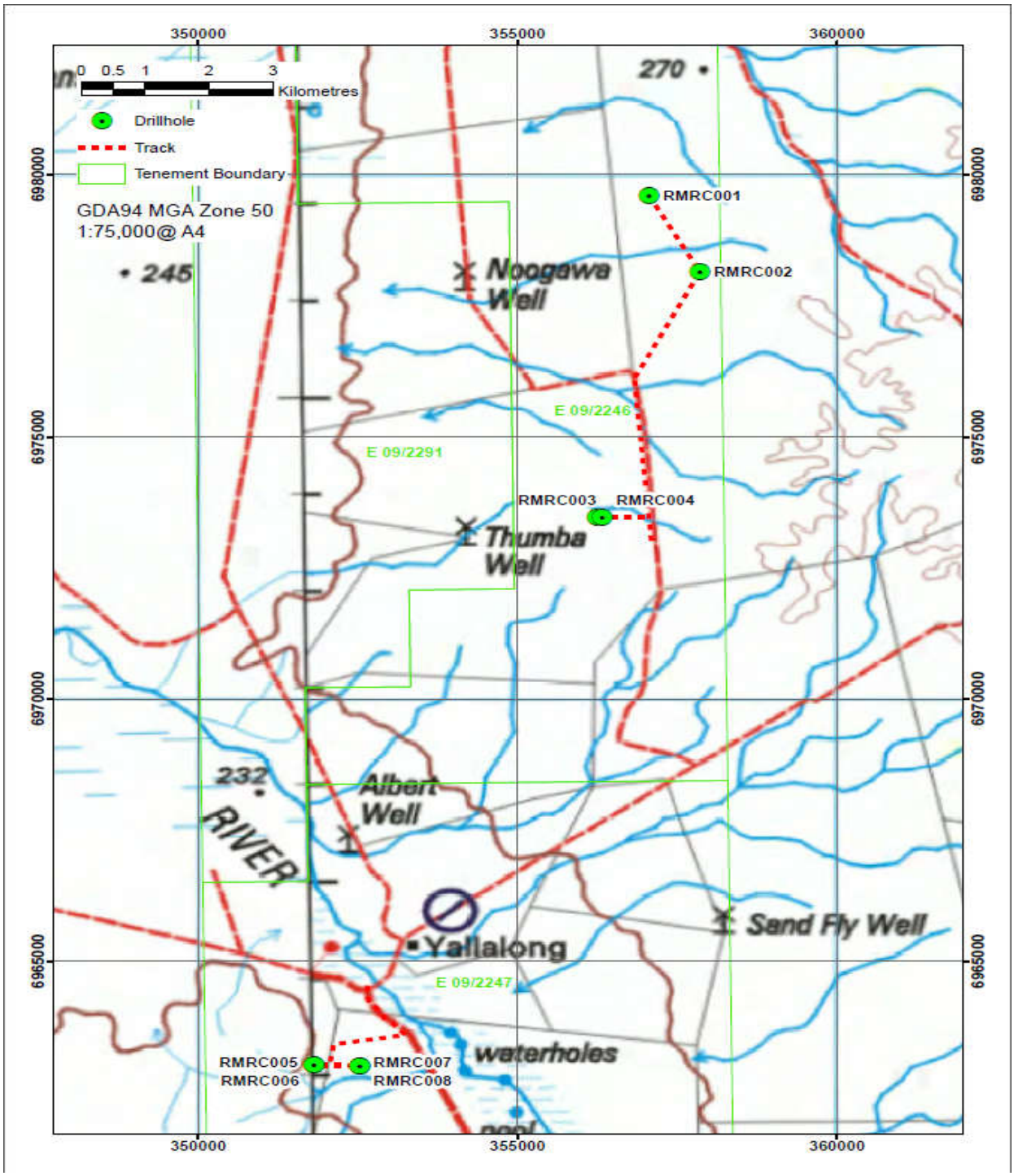

Figure 1: Drill Collar Location Map

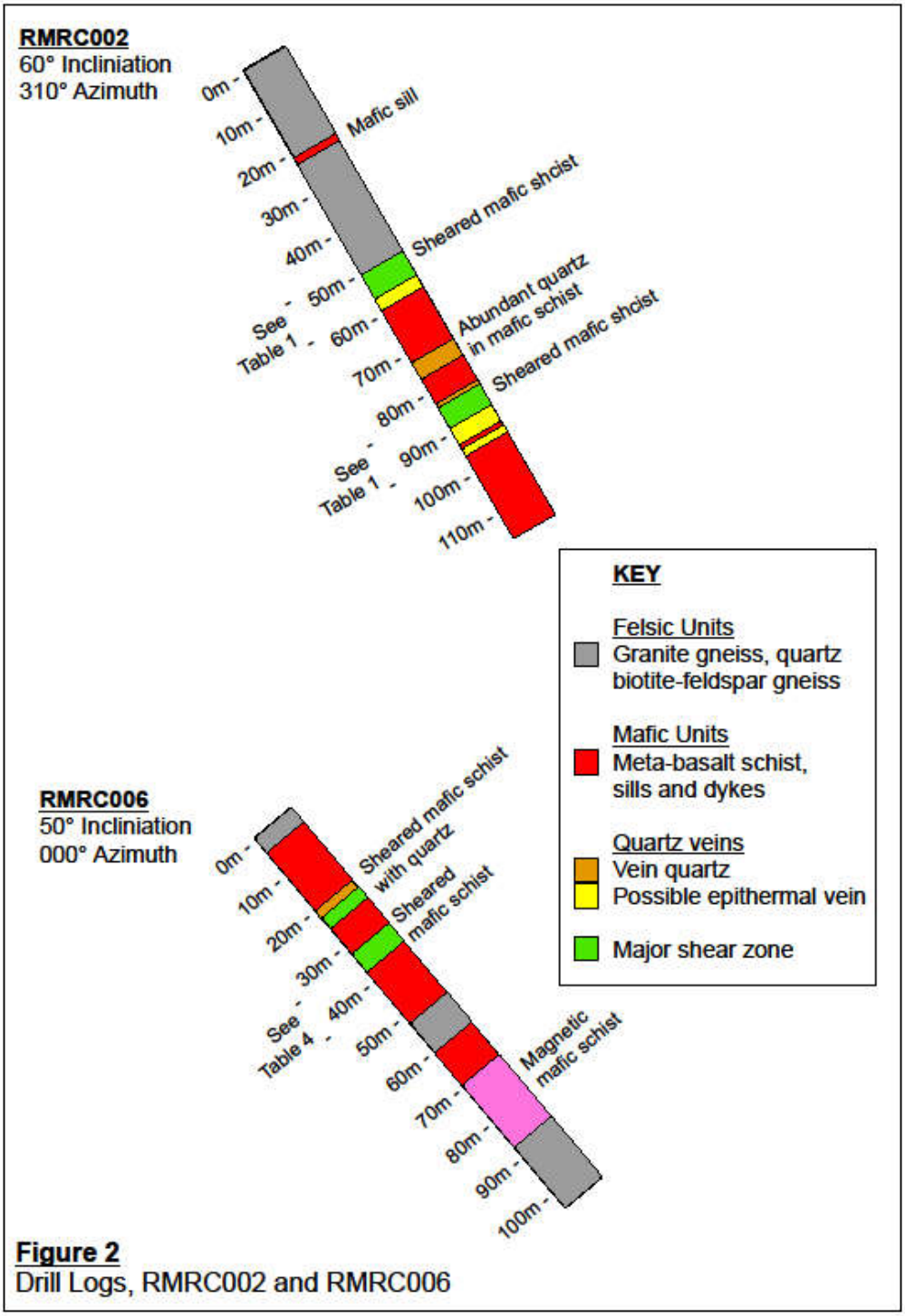

Figure 2
Drill Logs, RMRC002 and RMRC006

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 ono 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.

TERRAIN MINERALS

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.

TERRAIN MINERALS

Section 2 Reporting of Exploration 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

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Granite-gneiss, white feldspars, minor grey quartz		L Bn	Sdy				
1 to 2								
2 to 3					Deeply weathered			
3 to 4								
4 to 5								
5 to 6								
6 to 7					Coffee granule' weathering			
7 to 8								
8 to 9								
9 to 10					Moderately weathered			
10 to 11								
11 to 12								
12 to 13		Quartz			Minor quartz veining			
13 to 14		Quartz Abdt						
14 to 15								
15 to 16								
16 to 17								
17 to 18								
18 to 19								
19 to 20								
20 to 21								
21 to 22								
22 to 23					Moderately weathered			
23 to 24								
24 to 25								
25 to 26								
26 to 27								
27 to 28								
28 to 29		Quartz						
29 to 30								
30 to 31								
31 to 32								
32 to 33								
33 to 34		Quartz Abdt			Quartz vein			
34 to 35		Quartz						
35 to 36					Moderately weathered			
36 to 37								
37 to 38								
38 to 39		Quartz Abdt			Quartz vein			
39 to 40		Quartz						
40 to 41								
41 to 42					Moderately weathered			
42 to 43								
43 to 44								
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46								
46 to 47	Granite-gneiss	Minor quartz			Slightly weathered			
47 to 48								48
48 to 49			Bn	Sdy				Samples
49 to 50	Poss Epithermal	Quartz			Quartz vein, tourmaline, mica			
50 to 51								
51 to 52	Granite-gneiss	Minor quartz			Quartz with black flecks			51
52 to 53								
53 to 54								
54 to 55								
55 to 56								56
56 to 57								
57 to 58		Black flecked quartz			Dark grey quartz			Samples
58 to 59								
59 to 60								59
60 to 61								
61 to 62	Quartz-biotite gneiss		Gy					
62 to 63								
63 to 64		Pink feldspars			Felsic interval			
64 to 65								
65 to 66								
66 to 67		Black flecked quartz			Dark grey quartz			
67 to 68								
68 to 69								
69 to 70								
70 to 71								
71 to 72				Gritty				
72 to 73	Granite-gneiss	Pink feldspars	Gy-Bn		Felsic unit			
73 to 74								
74 to 75								
75 to 76	Quartz-biotite gneiss	Black flecked quartz	Dk Gy		Dark grey quartz, black flecks cont...			
76 to 77								
77 to 78								
78 to 79								
79 to 80								
80 to 81								
81 to 82	Granite-gneiss, quartz epidote	Epidote in quartz	Gn-Gy to clear		Epidote in quartz, no black flecks, some feldspa			
82 to 83								
83 to 84								
84 to 85								85
85 to 86								
86 to 87								Samples
87 to 88	Mafic schist		Bk		Ex-gabbro? Schist			
88 to 89								
89 to 90								88

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 001	357054	6979597	287m	290°	-50	RR	12/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
90 to 91	Mafic schist		Bk	Gritty				
91 to 92	Quartz-biotite gneiss	Gy quartz	Gy					
92 to 93					Gneissic interval in schist			93
93 to 94								
94 to 95	Mafic schist	Minor chloritic alt	Bk					
95 to 96								
96 to 97								
97 to 98					Chloritic veining in schist			Sample
98 to 99								
99 to 100								
100 to 101								
101 to 102	Quartz epidote gneiss		L Gy					
102 to 103								102
103 to 104	Quartz-biotite gneiss	Wh Feldspar	Dk Gy		Black flecks in quartz			
104 to 105								
105 to 106								
106 to 107								
107 to 108								
108 to 109								
109 to 110								
110 to 111								
111 to 112								
112 to 113								
113 to 114								
114 to 115								
115 to 116								
116 to 117								118
117 to 118								
118 to 119								Sample
119 to 120								
EOH								120

TERRAIN MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Granite-gneiss		Rd	Sdy	Surface soil			
1 to 2			L Gy	Sdy/slty	Weathered felsic gneiss			
2 to 3								
3 to 4								
4 to 5								
5 to 6								
6 to 7								
7 to 8								
8 to 9								
9 to 10								
10 to 11								
11 to 12	Felsic		Rd	Clay	Shear zone, highly weathered			
12 to 13	Granite-gneiss	Quartz	L Gy	Gritty	Kaolinised granite-gneiss			
13 to 14								
14 to 15								
15 to 16								
16 to 17			Rd-Bn					
17 to 18								
18 to 19								
19 to 20								
20 to 21								
21 to 22	Mafic		Dk Gy	Clay	Mafic intrusive, highly weathered			
22 to 23								
23 to 24	Quartz-feldspar gneiss		Bn	Chips	Quartz sill or dyke			
24 to 25								
25 to 26	Clay?				Shear zone, highly weathered			
26 to 27	Quartz-feldspar gneiss	Feldspars	L Bn-Gy	Gritty	Weathered quartz-fledspar gneiss			
27 to 28								
28 to 29								
29 to 30								
30 to 31								
31 to 32								
32 to 33								
33 to 34								
34 to 35								
35 to 36			L Gy-Yl					
36 to 37								
37 to 38								
38 to 39								
39 to 40								
40 to 41								
41 to 42								
42 to 43								
43 to 44								
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Quartz-feldspar gneiss		L Gy-Yl	Gritty				
46 to 47								
47 to 48								49
48 to 49								
49 to 50								
50 to 51	Mafic schist		Bk	Chips	Pyroxenite			
51 to 52								
52 to 53								
53 to 54		Garnet			Diss sulphides, high shear zone, 1m returns Cu>1% XRF			Sample
54 to 55								
55 to 56		Serpentinite			Serpentinite in shears			
56 to 57	Quartz		Wh		Epithermal vein			
57 to 58								
58 to 59								
59 to 60	Mafic schist		Bk					
60 to 61					Schist not as sheared as above. Re-xtalised, possible meta-basalt			60
61 to 62								
62 to 63								
63 to 64					Hi SG, abdt pyroxenite			
64 to 65								
65 to 66								
66 to 67								
67 to 68								
68 to 69								
69 to 70								
70 to 71								
71 to 72								
72 to 73								
73 to 74		Quartz			Schist cont			
74 to 75								75
75 to 76								
76 to 77		Quartz						
77 to 78								
78 to 79								
79 to 80								
80 to 81								
81 to 82								
82 to 83		Quartz-epidote	L Gy					Sample
83 to 84	Quartz-epidote schist				Shear zone			
84 to 85								
85 to 86			Dk Gy		Mica schist			
86 to 87	Mafic schist	Epidote			Sheared meta-basalt			
87 to 88								
88 to 89		Garnet						
89 to 90	Quartz		Wh-L Gy		Vein			

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 002	357850	6978142	291m	310°	-60	RR	13/07/2018	
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 schist			
92 to 93								
93 to 94	Mafic schist		Bk					Samples
94 to 95	Quartz		Gy		Minor diss sulphides in epithermal vein			
95 to 96								
96 to 97								
97 to 98								97
98 to 99								
99 to 100								
100 to 101								
101 to 102								
102 to 103				Chips				
103 to 104								
104 to 105	Mafic schist		Bk		Meta-basalt, minor diss sulph in last 2m			
105 to 106								
106 to 107								
107 to 108								
108 to 109								
109 to 110								
110 to 111								
111 to 112								112
112 to 113								Samples
113 to 114								
EOH								114

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1								
1 to 2					Highly weathered			
2 to 3								
3 to 4								
4 to 5								
5 to 6								
6 to 7					Weathered			
7 to 8								
8 to 9								
9 to 10								
10 to 11								
11 to 12								
12 to 13				Gritty				
13 to 14								
14 to 15					Minor weathering			
15 to 16								
16 to 17								
17 to 18								
18 to 19	Granite-gneiss	Quartz-mica	L Bn		Abdt quartz			
19 to 20								
20 to 21					Minor weathering			
21 to 22								
22 to 23					Minor quartz veins			
23 to 24								
24 to 25					Minor weathering			
25 to 26								
26 to 27				Clay	Shear zone			
27 to 28					Minor weathering			
28 to 29					Quartz veins			
29 to 30								
30 to 31								
31 to 32				Gritty	Minor weathering			
32 to 33								
33 to 34								
34 to 35								35
35 to 36					No Weathering			
36 to 37				Clay	Clay-rich shear zone in granitoids. Minor diss sulph			
37 to 38								
38 to 39	Meta-basalt	Quartz	Dk Gy					
39 to 40				Clay/grit				
40 to 41								Samples
41 to 42	Quartz granite-gneiss	Quartz, bk flecks	Wh/Bk		No Weathering			
42 to 43				Gritty				
43 to 44								
44 to 45					Green epidote in quartz			
								45

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Quartz granite-gneiss	Quartz, bk flecks	Wh/Dk Gy	Gritty	Green epidote in quartz			
46 to 47				Clay/grit	Clay in epidote quartz vein			
47 to 48				Gritty				
48 to 49								
49 to 50								
50 to 51		Pink feldspar						
51 to 52				Clay/grit	Green epidote abdt			
52 to 53								
53 to 54								
54 to 55					Banded qtz/Bk/Gn/fidspar			
55 to 56								
56 to 57	Feldspar gneiss	Quartz, pink feldspar	Pk					
57 to 58								
58 to 59	Quartz granite-gneiss		Gy-Bk					
59 to 60								
60 to 61								
61 to 62								
62 to 63			Dk Gy-Bk					
63 to 64								
64 to 65	Quartz		Wh		Quartz veining			
65 to 66		Epidote quartz	L Gy					
66 to 67	Quartz granite-gneiss			Gritty				
67 to 68								
68 to 69								
69 to 70								
70 to 71								
71 to 72								
72 to 73								
73 to 74								
74 to 75								
75 to 76								
76 to 77		Epidote feldspar						
77 to 78								
78 to 79								
79 to 80								
80 to 81								81
81 to 82								
82 to 83	Mafic	Fe-stone, silcrete	Bn-Cr					
83 to 84			Bk	Clay	Mafic sill, high clay, possible shear			
84 to 85								
85 to 86		Chloritic quart						Samples
86 to 87	Quartz feldspar gneiss	Quartz	Gy	Gritty				
87 to 88								
88 to 89								
89 to 90								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 003	356242	6973464	278m	000°	-50	RR	14/07/2018	

Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments	Samples
90 to 91				Gritty		
91 to 92	Mafic	Fe-stone	Bk		Dyke or sill	Samples
92 to 93				Clay		
93 to 94			Yl			
94 to 95						94
95 to 96						
96 to 97		Bk flecked quartz				
97 to 98			L Gy			
98 to 99						
99 to 100						
100 to 101						
101 to 102		Quartz, feldspar				
102 to 103						
103 to 104		Bk flecked quartz				
104 to 105						
105 to 106						
106 to 107	Quartz-mica granite gneiss			Gritty		
107 to 108		Pk feldspar				
108 to 109						
109 to 110						
110 to 111			Dk Gy			
111 to 112						
112 to 113						
113 to 114						
114 to 115		Bk quartz and Pk feldspar				
115 to 116						
116 to 117						
117 to 118						118
118 to 119						Samples
119 to 120						
EOH						120

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Soil		Rd	Sdy	Surface soil			
1 to 2	Granite gneiss		Bn-Gy					
2 to 3								
3 to 4								
4 to 5								
5 to 6			Bn-L Gy		Weathered			
6 to 7								
7 to 8								
8 to 9								
9 to 10								
10 to 11								
11 to 12								
12 to 13								
13 to 14								
14 to 15								
15 to 16			L Gy		Slightly weathered			
16 to 17								
17 to 18								
18 to 19								
19 to 20								
20 to 21								
21 to 22								
22 to 23		Feldspar	Bn-Or	Gritty	Not weathered			
23 to 24								
24 to 25								
25 to 26								
26 to 27								
27 to 28								
28 to 29								
29 to 30								
30 to 31			Dk Gy					
31 to 32								
32 to 33								
33 to 34	Mafic				Dyke/sill			
34 to 35								
35 to 36								
36 to 37		Quartz						
37 to 38	Granite gneiss	Quartz, bk flecks	L Gy					
38 to 39								
39 to 40								
40 to 41								
41 to 42								
42 to 43								
43 to 44								
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46								
46 to 47		Some feldspar						
47 to 48								
48 to 49								
49 to 50	Granite gneiss		Dk Gy					
50 to 51								
51 to 52								
52 to 53								
53 to 54								
54 to 55								55
55 to 56								
56 to 57	Quartz		Wh		Epithermal vein?			Samples
57 to 58								
58 to 59					Rutile, tourmaline in quartz?			59
59 to 60								
60 to 61								
61 to 62								
62 to 63								
63 to 64		Quartz, bk flecks						
64 to 65			Gy					
65 to 66								
66 to 67								
67 to 68	Granite gneiss			Gritty				
68 to 69								
69 to 70		Quartz			Quartz vein			
70 to 71								
71 to 72								
72 to 73								
73 to 74								
74 to 75		Dk quartz	Dk Gy					
75 to 76								
76 to 77								77
77 to 78								
78 to 79								
79 to 80	Mafic igneous		Dk Gy-Bk		Meta-dolerite dyke/sill			
80 to 81								
81 to 82								
82 to 83								
83 to 84	Granite gneiss	Bk flecks, epidote quartz	L Gy		Quartz-epidote veins			Samples
84 to 85								
85 to 86					Abdt Green xtaline epidote			
86 to 87	Quartz		L Gy-Gn		Milky quartz			
87 to 88								
88 to 89	Quartz-feldspar gneiss	Quartz	L Gy-Or		High feldspar granite gneiss			
89 to 90			Bn					
								90

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 004	356312	6973475	275m	000°	-50	RR	14/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
90 to 91	Quartz-feldspar gneiss	Mica	Bn	Clay	Shear			
91 to 92				Gritty				
92 to 93								
93 to 94			Bn-Gy					94
94 to 95	Granite gneiss	Quartz			Abt quartz veins, milky			Samples
95 to 96								
96 to 97								
97 to 98			L Gy					98
98 to 99				Clay	Shear			
99 to 100								
100 to 101								
101 to 102	Quartz-feldspar gneiss				Orange feldspar			
102 to 103								
103 to 104								
104 to 105								
105 to 106								
106 to 107								
107 to 108		Quartz-epidote			Minor quartz-epidote veins			
108 to 109								
109 to 110					Orange feldspar			
110 to 111								
111 to 112								
112 to 113								
113 to 114		Bk flecked quartz	Cr-Wh					115
114 to 115								
115 to 116				Gritty				
116 to 117	Quartz	Epidote	Wh		Main epithermal vein			
117 to 118								
118 to 119								
119 to 120								
120 to 121	Quartz-feldspar gneiss							
121 to 122								
122 to 123								
123 to 124	Quartz	Bk flecked quartz			Narrow epithermal vein			Samples
124 to 125	Quartz-feldspar gneiss		L Gy					
125 to 126								
126 to 127								
127 to 128								
128 to 129								
129 to 130								
130 to 131								
131 to 132								
EOH								132

TERRAIN MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Granite gneiss	Quartz	Rd-Bn	Gritty	Weathered			1
1 to 2								
2 to 3								
3 to 4								
4 to 5								
5 to 6	Mafic schist	Mica	Bk-Dk Gy		Abdt mica; shearing?			
6 to 7								
7 to 8					Rare mica			
8 to 9								
9 to 10		Quartz			Abdt quartz veining, mod diss sulph			
10 to 11								
11 to 12	Mafic schist	Quartz	L Gy		Mafic schist, quartz veining			
12 to 13								
13 to 14								
14 to 15	Mafic/ultramafic schist	Quartz-mica	Dk Gy		Minor diss sulphides			
15 to 16								
16 to 17								
17 to 18			Bk-Dk Gy	Clay, grit	Green clay after serpentinite			
18 to 19			Dk Gy		Shear zone			
19 to 20		Abdt quartz						
20 to 21								
21 to 22				Gritty				
22 to 23	Quartz		L Gy		Quartz vein			
23 to 24	Mafic/ultramafic schist	Minor quartz	Bk-Dk Gy		High shear			Samples
24 to 25								
25 to 26					Low shear			
26 to 27								
27 to 28								
28 to 29								
29 to 30								
30 to 31								
31 to 32								
32 to 33								
33 to 34					Serpentinite in shears			
34 to 35			Dk Gy					
35 to 36								
36 to 37								
37 to 38								
38 to 39					Minor quartz vein			
39 to 40		Garnet						
40 to 41								
41 to 42		Abdt garnet						
42 to 43		Quartz						
43 to 44	Quartz	Mica			Quartz vein, minor diss. Sulph			
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Quartz		L Gy					
46 to 47					Minor to moderate diss. sulph			
47 to 48								
48 to 49								
49 to 50		Quartz			Quartz vein			
50 to 51								
51 to 52			Dk Gy-Bk					
52 to 53								
53 to 54					Minor diss sulph			
54 to 55		Minor garnet						
55 to 56								
56 to 57								
57 to 58								
58 to 59					Sulphides becoming moderate to abdt			
59 to 60								
60 to 61								
61 to 62	Mafic/ultra mafic schist							
62 to 63								
63 to 64		Quartz			Vein			Samples
64 to 65								
65 to 66					Minor diss sulph			
66 to 67								
67 to 68		Mica	Bk	Gritty				
68 to 69								
69 to 70								
70 to 71								
71 to 72								
72 to 73								
73 to 74								
74 to 75					Minor diss sulph			
75 to 76								
76 to 77								
77 to 78								
78 to 79								
79 to 80								
80 to 81								
81 to 82								
82 to 83								82
83 to 84	Quartz granite gneiss	Bk flecked quartz	L Gy					
84 to 85								
85 to 86								
86 to 87								
87 to 88								
88 to 89								
89 to 90								

TERRAIN MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 005	351820	6963016	258m	000°	-60	RR	15/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
90 to 91	Quartz granite gneiss	Bk flecks in quartz	L Gy	Gritty				
91 to 92								
92 to 93								
93 to 94								
94 to 95		Feldspar	Or					
95 to 96								
96 to 97								
97 to 98								
98 to 99								
99 to 100		Bk flecks in quartz	L Gy					
100 to 101								
101 to 102								
102 to 103								
103 to 104								
104 to 105								
105 to 106								
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		Dk Gy		Dyke/sill			
114 to 115	Quartz granite gneiss	Bk flecks in quartz	L Gy					
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								
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								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 006	351820	6963016	258m	000°	-50	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Granite gneiss		Rd-Bn	Gritty	Weathered			1
1 to 2								
2 to 3								
3 to 4								
4 to 5	Mafic schist	Quartz		Clay/silt				
5 to 6								
6 to 7					Slightly weathered			
7 to 8								
8 to 9								
9 to 10								
10 to 11								
11 to 12								
12 to 13								
13 to 14								
14 to 15								
15 to 16								
16 to 17								
17 to 18								
18 to 19								
19 to 20				Gritty				
20 to 21	Quartz		Bk-Dk Gy		Quartz vein			
21 to 22	Mafic schist	Minor quartz			Highly weathered, shear zone			Samples
22 to 23								
23 to 24								
24 to 25								
25 to 26		Garnet						
26 to 27		Minor milky quartz						
27 to 28								
28 to 29								
29 to 30								
30 to 31								
31 to 32								
32 to 33					Highly weathered, shear zone			
33 to 34								
34 to 35				Clay	Moderately weathered. Diss sulph, highly magn			
35 to 36								
36 to 37								
37 to 38								
38 to 39	Dark compact mafic schist	Chlorite	Bk	Gritty	Fresh black schist			
39 to 40								
40 to 41					Mod diss sulph			
41 to 42								
42 to 43					Minor diss sulph			
43 to 44								
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 006	351820	6963016	258m	000°	-50	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Dk mafic schist		Bk-Dk Gy	Gritty				Samples
46 to 47	Mafic schist	Mica		Clay	High mica; shear zone			
47 to 48								
48 to 49								
49 to 50		Garnet			Some clay			
50 to 51		Mica			100% mica			
51 to 52					High mica; shear zone			
52 to 53	Quartz-mica granite gneiss	Quartz, bk flecks		Silty				
53 to 54								
54 to 55								
55 to 56		Mica						
56 to 57								
57 to 58					Minor diss sulph in mafics			
58 to 59		Mafic chips	Gy					
59 to 60								
60 to 61	Mafic schist		Dk Gy		Mafic dominant			
61 to 62		Quartz						
62 to 63								
63 to 64								
64 to 65								
65 to 66		Less quartz						
66 to 67								
67 to 68								
68 to 69		Quartz, mica						
69 to 70		High quartz						
70 to 71	Magnetite		Bk-Dk Gy	Gritty	Minor diss sulph increasing with depth			
71 to 72								
72 to 73								
73 to 74								
74 to 75					More massive			
75 to 76					Trace to minor diss sulph			
76 to 77								
77 to 78								
78 to 79					Abundant to moderate diss sulph			
79 to 80								
80 to 81								
81 to 82								
82 to 83	Quartz-mafic schist	Mica			High shear zone, non magnetic. Mod diss sulph in places			
83 to 84								
84 to 85		Garnet						
85 to 86								
86 to 87								
87 to 88								
88 to 89	Quartz granite gneiss	Minor mafic chips						
89 to 90								90

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 3
RMRC 006	351820	6963016	258m	000°	-50	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
90 to 91	Quartz Granite gneiss	Quartz Bk flecks	L Gy	Gritty				
91 to 92								
92 to 93								
93 to 94								
94 to 95								
95 to 96								
96 to 97								
97 to 98		Feldspar	L Gy-Or					
98 to 99								
99 to 100								
100 to 101								
101 to 102								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 007	352528	6963002	248m	000°	-50	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Soil		Rd	Sdy	Highly weathered			
1 to 2	Quartz-mica schist		Gy	Gritty	Abundant yellow mica			
2 to 3								
3 to 4								
4 to 5								
5 to 6								
6 to 7								
7 to 8								8
8 to 9	Mica, Quartz		Dk Gy-Bn	Clay	Major shear zone			Samples
9 to 10								
10 to 11								
11 to 12	Quartz-feldspar gneiss	Minor mafic chips		Gritty				
12 to 13								
13 to 14								
14 to 15								
15 to 16								
16 to 17								
17 to 18								
18 to 19	Mafic schist	Quartz garnet	Dk Gy		Trace to minor diss sulph			
19 to 20								
20 to 21		Garnet			Abdt diss sulph			
21 to 22								
22 to 23								
23 to 24		Mica garnet			Mod diss sulph			
24 to 25								
25 to 26					Trace diss sulph			
26 to 27								
27 to 28					Abdt diss sulph			
28 to 29								
29 to 30					Minor diss sulph			
30 to 31								
31 to 32								
32 to 33								
33 to 34					More massive			
34 to 35								
35 to 36								
36 to 37								
37 to 38								
38 to 39								
39 to 40								
40 to 41								
41 to 42		Mica, quartz	L Gy		Quartz veins with mica			
42 to 43								
43 to 44								
44 to 45								

TERRAIN MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 007	352528	6963002	248m	000°	-50	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46					Minor quartz veins			
46 to 47								
47 to 48								
48 to 49	Mafic schist		Dk Gy					
49 to 50								Samples
50 to 51								
51 to 52					End of mafic schist			
52 to 53								
53 to 54								
54 to 55								54
55 to 56								
56 to 57								
57 to 58								
58 to 59								
59 to 60	Quartz granite gneiss	Bk flecked quartz	L Gy					
60 to 61								
61 to 62								
62 to 63								
63 to 64								
64 to 65								
65 to 66								
66 to 67								
67 to 68				Gritty				
68 to 69								
69 to 70								
70 to 71	Quartz gneiss				No feldspars noted, high quartz			
71 to 72								
72 to 73		Minor mafic chips	Dk Gy					
73 to 74								
74 to 75								
75 to 76								
76 to 77								
77 to 78								
78 to 79								
79 to 80	Quartz granite gneiss							
80 to 81								
81 to 82								
82 to 83								
83 to 84		Bk flecked quartz	L Gy					
84 to 85								
85 to 86								
86 to 87					Increasing quartz with depth			
87 to 88	Quartz gneiss							
88 to 89								
89 to 90		Inc bk quartz	Dk Gy					

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

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

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 1
RMRC 008	352528	6963002	248m	000°	-60	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
0 to 1	Soil		Rd	Gravel				1
1 to 2	Quartz mica schist		L Gy	Gritty				
2 to 3								
3 to 4								
4 to 5								
5 to 6								
6 to 7								
7 to 8								
8 to 9		Mica						
9 to 10	Quartz mica		L Bn-Gy	Clay	Highly weathered; shear zone			
10 to 11								
11 to 12					No recovery			
12 to 13								
13 to 14					Quartz vein			
14 to 15	Mafic schist		Dk Gy	Silty				Samples
15 to 16		Serpentinite						
16 to 17				Gritty				
17 to 18		Mica, serpentinite						
18 to 19								
19 to 20								
20 to 21								
21 to 22								
22 to 23								
23 to 24								
24 to 25		Garnet						
25 to 26					Minor diss sulphides			
26 to 27								
27 to 28								
28 to 29								
29 to 30		Quartz			Quartz vein			
30 to 31								
31 to 32								
32 to 33								
33 to 34					Minor diss sulph			
34 to 35								
35 to 36								
36 to 37								
37 to 38					Fe staining			
38 to 39								
39 to 40								
40 to 41								
41 to 42		Quartz			Quartz vein			
42 to 43								
43 to 44								
44 to 45								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

Hole Number	Easting	Northing	Altitude	Azimuth	Inclination	Geologist	Date	Page 2
RMRC 008	352528	6963002	248m	000°	-60	RR	16/07/2018	
Metres From - To	Lithology 1	Lithology 2	Colour	Texture	Comments			Samples
45 to 46	Mafic schist	Quartz	Dk Gy					
46 to 47								
47 to 48								Samples
48 to 49								
49 to 50			L Gy					
50 to 51								50
51 to 52								
52 to 53		High quartz	Wh					
53 to 54								
54 to 55			L Gy					
55 to 56								
56 to 57					Mafic veins, dykes. Minor			
57 to 58								
58 to 59								
59 to 60								
60 to 61		Mafic chips, decreasing with depth	Dk Gy					
61 to 62								
62 to 63								
63 to 64								
64 to 65								
65 to 66								
66 to 67								
67 to 68	Quartz granite gneiss	Quartz, bk flecks	Wh	Gritty	Quartz veining			
68 to 69								
69 to 70								
70 to 71								
71 to 72		Bk flecks increasing						
72 to 73								
73 to 74								
74 to 75								
75 to 76								
76 to 77								
77 to 78								
78 to 79								
79 to 80			L Gy					
80 to 81								
81 to 82								
82 to 83								
83 to 84								
84 to 85								
85 to 86		Quartz, bk flecks						
86 to 87								
87 to 88								
88 to 89								
89 to 90								

TERRAIN
MINERALS

YALLALONG DRILLING PROGRAMME JULY 2018

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

Drilling Results

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

Sample	Au1	Au2	Pt	Pd	Cu	Zn	Co	Ni	Li	Mn	Pb	U	Cr
UNITS	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
#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
#4 82	-1		-5	-5	12	14	10	6	9	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

#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	0.3	110
#5 33	1		20	35	76	80	55	82	14	1600	2	0.2	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

#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	2	140	65	332	38	1640	9	1.2	1410
#8 13	-1		-5	-5	6	108	50	264	35.5	1450	24	2.2	850
#8 14	1		-5	-5	16	62	25	154	22.5	784	41	3	320
#8 15	1		5	5	76	82	50	230	18	1510	29	2.9	160
#8 16	2		5	-5	80	78	30	152	14	1130	28	2.7	110
#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 43	-1		-5	-5	12	38	5	18	34.5	412	21	9.2	20
#8 44	-1		-5	-5	10	50	5	14	33.5	432	24	5.2	20
#8 45	1		-5	-5	10	62	5	10	46	710	31	12.8	10
#8 46	-1		-5	-5	14	50	10	16	34.5	392	28	5.8	30
#8 47	-1		-5	-5	14	50	5	14	26	324	41	7.9	20
#8 48	-1		-5	-5	58	54	5	14	30	436	44	6.9	20
#8 49	-1		-5	-5	16	52	5	10	21.5	392	41	6.2	10
#8 50	1		-5	-5	4	46	5	10	22	354	40	4.3	20
#8 50 Rpt	-1		-5	-5	4	48	5	14	22	350	40	4.2	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.