

# Lithium Prospectivity Confirmed at Cooletha Project

## Highlights

- **First-pass rock chip assay results confirm the lithium prospectivity of the Cooletha Project**
- **10 high priority targets totalling over 24km in length have been identified**
- **Lithium and lithium-caesium-tantalum (“LCT”) pegmatite indicator minerals confirmed**
- **Multi-element assays have identified vectors toward evolved intrusive rocks**
- **Multispectral analysis integrated with assay results and geological observations defines multiple exploration locations in the Pilbara LCT pegmatite ‘Goldilocks Zone’**
- **The scale of the total prospective area has exceeded expectations**
- **Planning of follow up program underway with focus on testing the target areas identified from the current work program which only covered 25% of the granted tenure.**

**Australian Critical Minerals (ASX: ACM, “Australian Critical Minerals” or “the Company”)** a mineral exploration company focused on the exploration and development of critical mineral projects in Western Australia, advises its initial mapping and sampling program confirms lithium prospectivity at the Cooletha Lithium Project. Trace elements and spectral analysis confirms the LCT pegmatite system and has generated 10 priority targets in the untested goldilocks zone.

### Managing Director, Dean de Largie said:

*“Positive results from our initial exploration program across the large Cooletha Lithium Project, have been integrated with world-class spectral analysis to detail a clear pathway to exploration success. ACM has benefited from the assistance of our technical consultants who have brought together a team of multi-disciplinary geoscientists to rapidly deliver a science-backed understanding of the geology of the Cooletha Lithium Project.*

*Our initial 251 samples of intrusive and pegmatitic rocks have delivered the geochemical information required to develop our understanding of the intrusive fractionation processes that have occurred at Cooletha. Identifying the location and vectors in fractionated rocks is the first important step to the discovery of evolved pegmatitic LCT systems.*

*We look forward to building on this data with a scientifically robust exploration plan which includes the sampling of the identified targets within the modelled LCT pegmatite goldilocks zone.*

*The majority of the initial program was focused in the western part of the Cooletha tenure due to access issues, with future exploration anticipated to include support to provide a faster test and evaluation procedure of the specific targets identified, especially on the central and eastern side of the project area.”*

## Cooletha Lithium Project, Pilbara

The Cooletha Lithium Project, ACM's flagship lithium project, has over 100km<sup>2</sup> of lithium prospectivity in the Pilbara lithium district. The Project is located south of significant discoveries at Pilbara Minerals' (ASX:PLS) Pilgangoora Lithium Project (223Mt @ 1.25% Li<sub>2</sub>O), MinRes' (ASX:MIN) Wodgina Lithium Project (259Mt @ 1.17% Li<sub>2</sub>O) (Figure1).

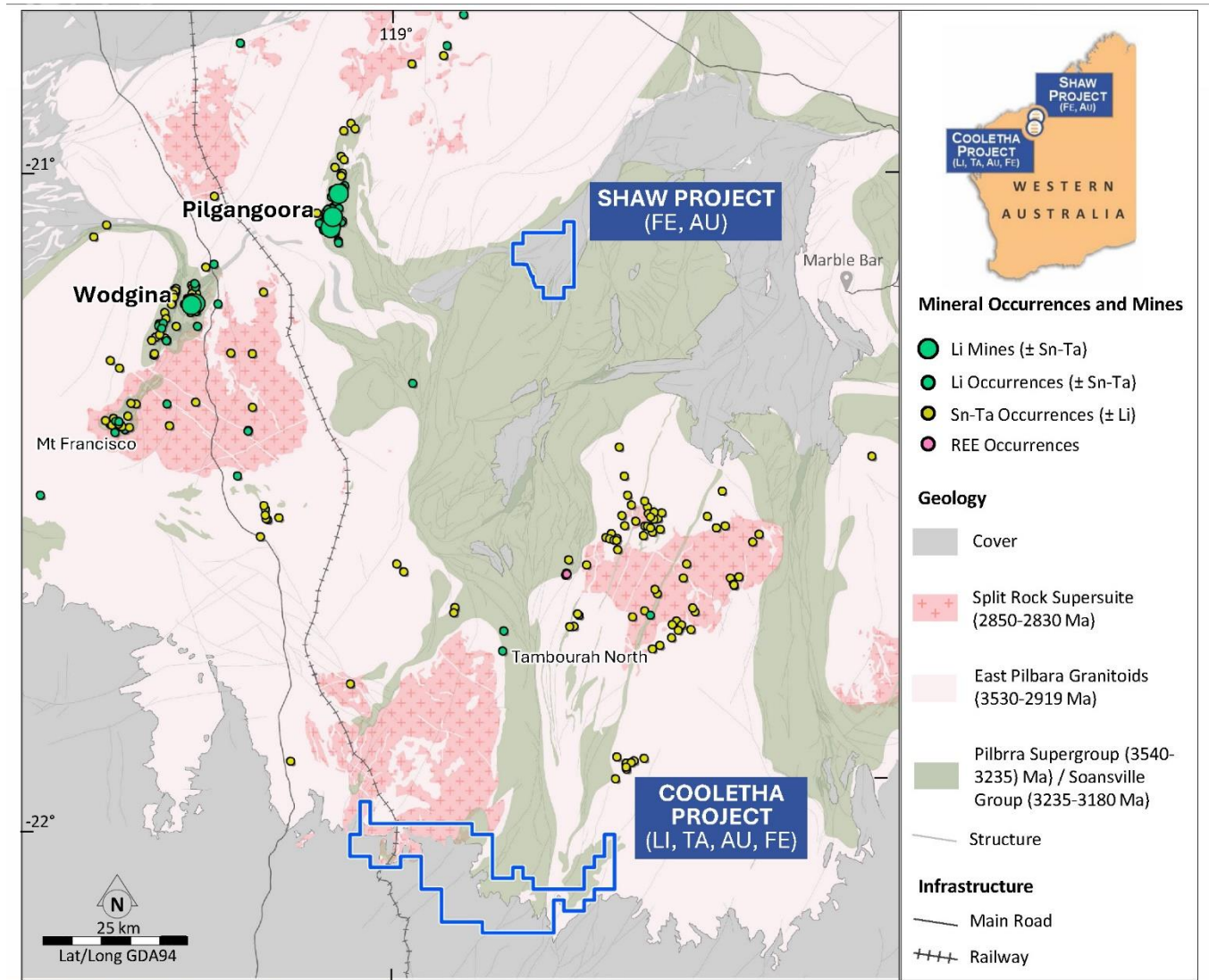
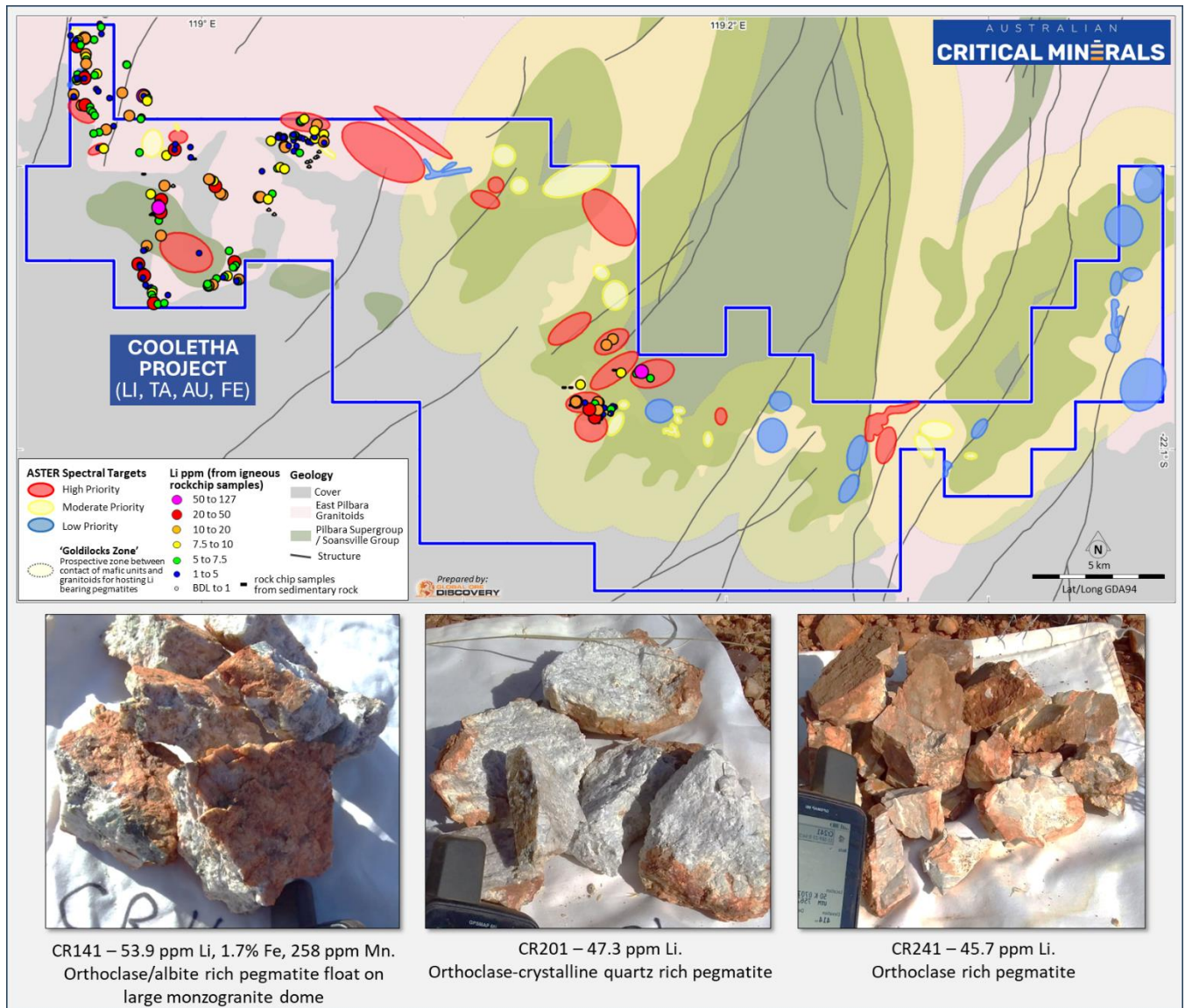


Figure 1 – The location of the Cooletha Lithium Project in the Pilbara region, Western Australia.

Encouraging assay results for lithium and LCT pegmatite indicator elements have been received from the Company's first-pass rock chip sampling of a portion of the Cooletha Lithium Project. Rock chip geochemical analysis has been conducted contemporaneously with hyperspectral data sourcing and analysis to derive a robust interpretation and geological model at Cooletha. The hyperspectral data analysis was performed over the 251 km<sup>2</sup> of granted tenure and the 160 km<sup>2</sup> of pending tenure at Cooletha in anticipation of the future grant.

Preliminary geochemical analysis and interpretation of rock chip samples from Cooletha involved developing a LCT pegmatite correlation matrix specific to the geology of Cooletha. The elemental ratios Mg/Li; Na/Ta; K/Rb and K/Cs were used to identify LCT pegmatites or the fertile intrusive rocks from which vectors to lithium mineralisation have been calculated.



**Figure 2 – Lithium rock chip results, prioritised spectral targets and Cooletha geological setting**

The central and eastern side of the Cooletha Project covers the southern extension of the Soansville Group which hosts both Pilbara Minerals Pilgangoora and Mineral Resources Wodgina Lithium Projects. Figure 2 displays the location of the rock samples collected during the current programme with respect to interpreted “goldilocks zone”. Significantly no sampling has occurred within this zone (Figure 3, Table 1). The extension of the Pilbara scale goldilocks zone (Figure 3) has been interpreted from analysis of various elemental ratios and provides the targeting

required to explore this large tenure efficiently. The samples derived from the geological units proximal to the goldilocks zone are lithium bearing and provide confirmation of the fertility of these locations. The scope of the current program was to gain an understanding of the broader geology and prospectivity upon which further exploration can be based. The hyperspectral imagery interpretation has identified approximately 25 linear kilometres of target areas which warrant investigation.

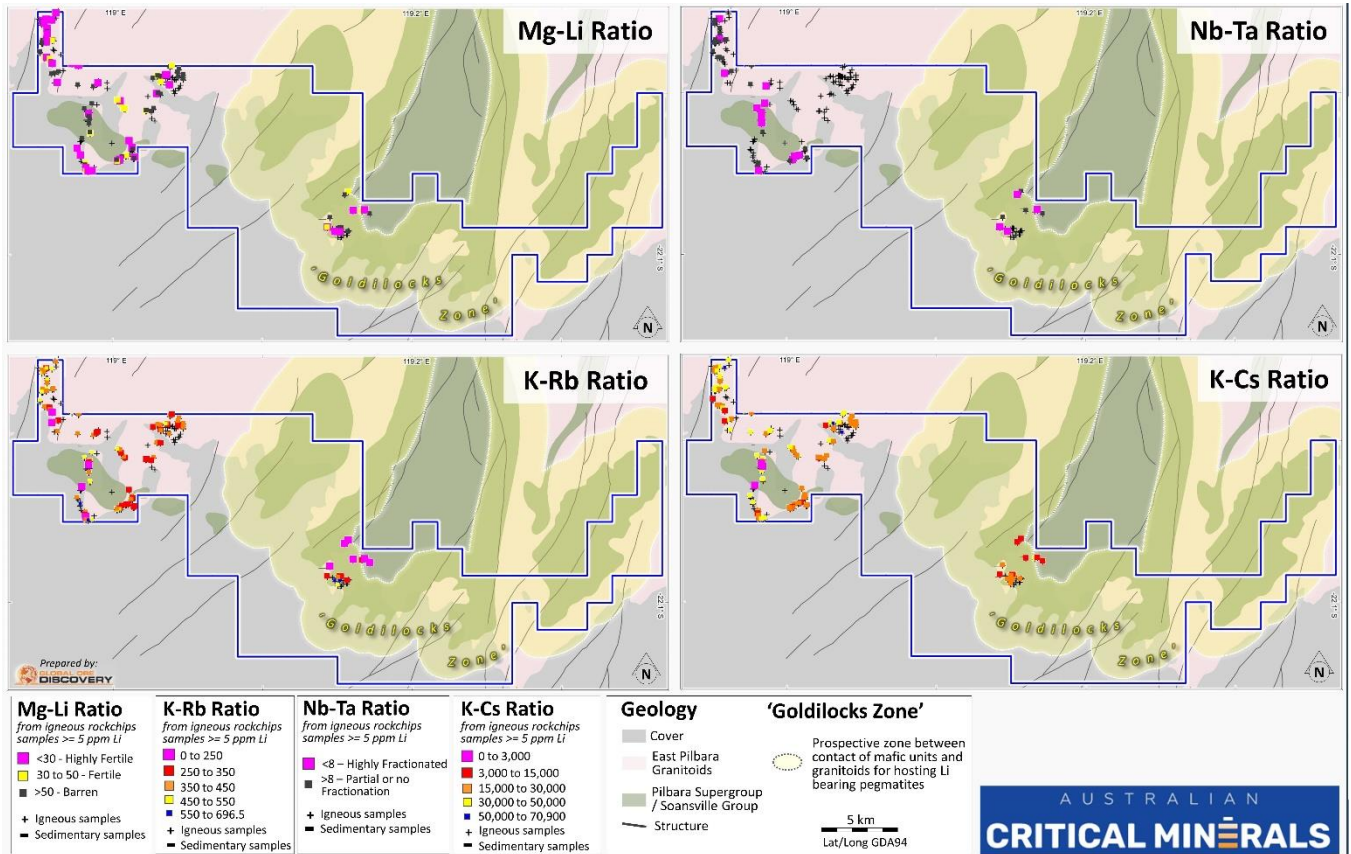


Figure 3 – Lithium rock chip LCT pegmatite indicator element ratios

The combination of geochemical and spectral analysis of the intrusive rocks at Cooletha has provided a powerful tool for ACM to refine our exploration targeting. The exploration target at Cooletha remains very large and the contact zone of the Soansville Group presents the opportunity of many kilometres of targeted exploration within the interpreted goldilocks zone.

SAMPLE_ID	EAST	NORTH	LITHOLOGY	Be	Fe	K	Li2O	Nb	Rb	Sr	Ta
				ppm	%	%	ppm	ppm	ppm	ppm	ppm
CR101	701947	7570912	Pegmatite	0.9	0.7	4.4	104.6	2.1	131.0	45.2	0.2
CR201	703946	7562062	Pegmatite	0.2	0.4	4.6	101.8	0.0	112.0	245.0	0.0
CR241	707727	7562090	Pegmatite	0.2	0.3	7.1	98.4	0.0	190.0	221.0	0.1
CR215	720915	7557023	Breccia	1.3	11.7	0.4	273.4	3.5	16.0	50.4	0.3
CR188	704779	7564257	Amphibolitie	1.0	8.6	0.0	140.6	0.9	0.8	29.4	0.1
CR141	704236	7568635	Monzogranite	1.6	1.7	1.6	116.0	4.4	41.1	177.0	0.4
CR217	721469	7556423	Channel Iron Deposit	1.5	55.4	0.0	5.0	5.4	0.0	0.3	0.3
CR213	722631	7557674	Banded iron Formation	1.7	40.8	0.0	3.9	0.7	0.6	3.3	0.1

**Table 1 – Lithium and Indicator Elements Results**

## Future Works

The Company is preparing to continue the Cooletha sampling program with a focus on the target areas represented in Figure 3. Whilst the Company remains focused on realizing the lithium potential at Cooletha, current work has highlighted the potential of the iron ore and manganese within the Cooletha tenure and when efficient to do so the Company will sample these units to continue to value-add to the information database. (Table 1, Figure 4).

ACM anticipates releasing results for the recently completed auger and RC program at the Rankin Dome Rare Earths Project shortly, with follow up exploration to commence during the first quarter of 2024. The Rankin Dome Rare Earths Project has previously produced shallow auger samples highly anomalous in REE.

A POW has been submitted to drill the Iron Ore targets at the Shaw Project, expected to commence in Q2CY24. Shaw sits next to an operating mine owned by Hancock Prospecting with over 5km strike of prospective Banded Iron Formation.

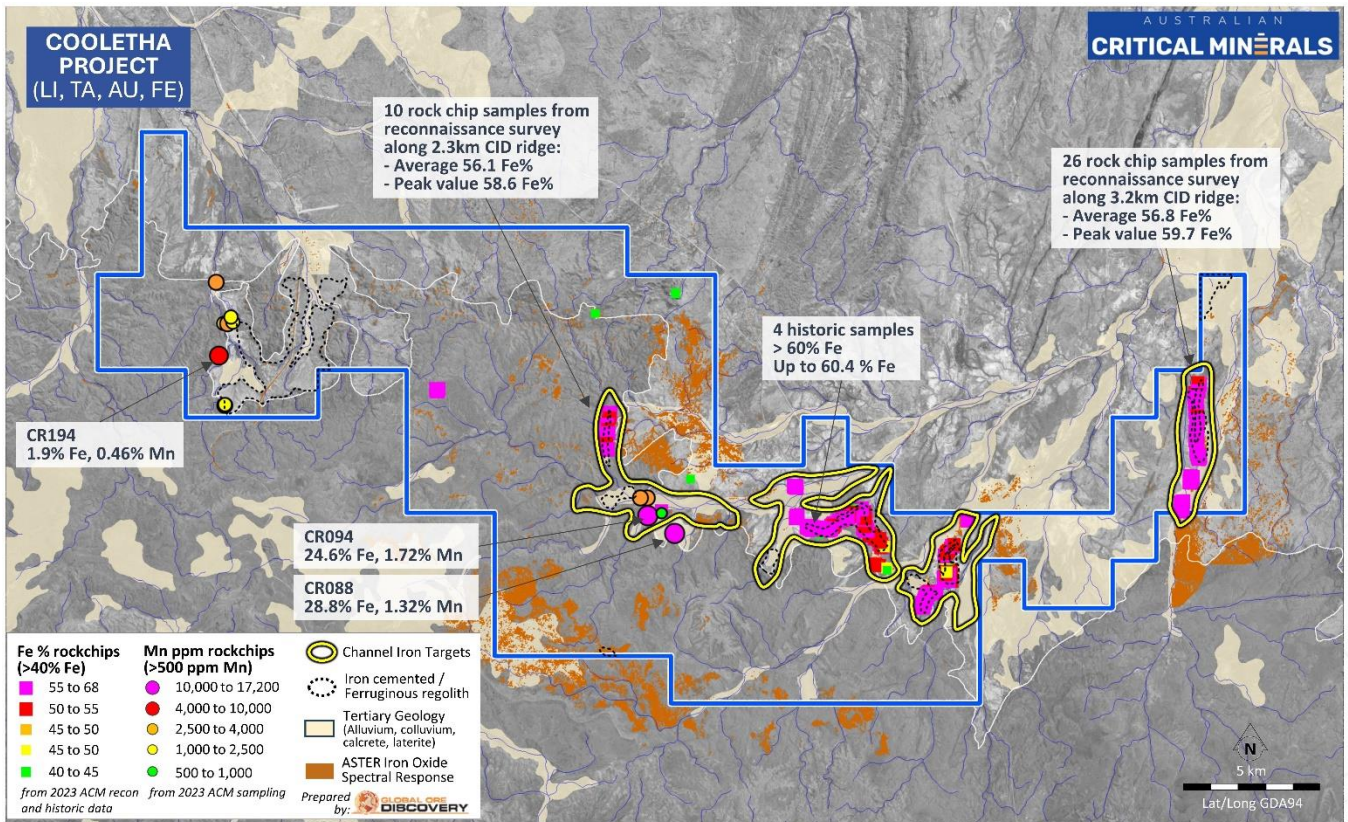


Figure 4 – Overview map of Iron oxide spectral anomalies, historic and Fe, Mn results

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## About Australian Critical Minerals

**Australian Critical Minerals** is an exploration company focused on developing a quality portfolio of critical minerals projects in Western Australia. The key projects are Cooletha (Pilbara) Lithium Project and Rankin Dome (Southern Cross) Rare Earth Project.

Battery metals, including rare earths and lithium are fundamental in the clean energy transition to net zero transmissions. ACM intends to play a pivotal role in delivering the processed minerals needed for a clean energy future.

ACM has established a highly experienced management team with a proven track record of exploration and corporate success in the mining industry.

## **Reference to Previous Announcements**

Investors can refer to the Company's Prospectus for further disclosure on information in this Announcement and all of the Company's Projects. Investors should also refer to the Company's release 28 August 2023 "Cooletha Exploration Update" for more information on the pegmatite outcrops (and relevant samples).

## **Competent Persons Statement**

The information in this report that relates to Exploration Targets and Exploration Results is based on information compiled by Mr. Dean de Largie. Mr. de Largie is the Managing Director of Australian Critical Minerals Limited and is a Fellow of the Australian Institute of Geoscientists and has sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported 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. Mr. de Largie have verified the data disclosed in this release and consent to the inclusion in this release of the matters based on the information in the form and context in which it appears.

## **Forward Statement**

This news release contains "forward-looking information" within the meaning of applicable securities laws. Generally, any statements that are not historical facts may contain forward-looking information, and forward looking information can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget" "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or indicates that certain actions, events or results "may", "could", "would", "might" or "will be" taken, "occur" or "be achieved." Forward-looking information is based on certain factors and assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued exploration activities, commodity prices, the estimation of initial and sustaining capital requirements, the estimation of labour costs, the estimation of mineral reserves and resources, assumptions with respect to currency fluctuations, the timing and amount of future exploration and development expenditures, receipt of required regulatory approvals, the availability of necessary financing for the project, permitting and such other assumptions and factors as set out herein.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: risks related to changes in commodity prices; sources and cost of power and water for the Project; the estimation of initial capital requirements; the lack of historical operations; the estimation of labour costs; general global markets and economic conditions; risks associated with exploration of mineral deposits; the estimation of initial targeted mineral resource tonnage and grade for the project; risks associated with uninsurable risks arising during the course of exploration; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support exploration activities; risks associated with changes in the mining regulatory regime governing the Company and the Project; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; financing, capitalisation and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at the project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issuance of additional common shares of the Company; the risk of litigation.

Although the Company has attempted to identify important factors that cause results not to be as anticipated, estimated or intended, there can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance

*on forward-looking information. Forward looking information is made as of the date of this announcement and the Company does not undertake to update or revise any forward-looking information this is included herein, except in accordance with applicable securities laws.*



## JORC Code, 2012 Edition – Table 1 report

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>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 down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Rock sample are taken by hammer and chisel of rock outcrop. Samples were localized and care was taken to achieve a representative sample of each site. Samples were placed in a numbered calico sample bag. Secured in Polyweave sacks and delivered for assay by ACM personnel.</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li>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).</li> </ul>	No drilling has been reported
<b>Drill sample recovery</b>	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	No drilling has been reported.
<b>Logging</b>	<ul style="list-style-type: none"> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and</li> </ul>	Rock chip samples were logged in the field at the time the samples have been collected by an appropriately experienced geologist. Logging is qualitative.

Criteria	JORC Code explanation	Commentary
	<p>metallurgical studies.</p> <ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<p>The sampling technique of chisel and hammer is appropriate for rock chip sampling.</p> <p>The sample size of approximately 2kg is appropriate for the material grain size.</p>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>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.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The Af01 method is an alkaline fusion and MMA04 techniques are considered total digests. MMA04 is a <math>\mu</math>-wave digest, HF/multiacid: 61 elements assay method by ICP-MS/OES. Both methods are considered near-total digests.</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul style="list-style-type: none"> <li>Blanks and certified reference samples are inserted into the sample string at the rate of approximately 1 in 20.</li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>Sample locations identified with a handheld Garmin GPS with an accuracy of approximately 3m.</li> </ul>

Criteria	JORC Code explanation	Commentary
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>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.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>• No mineral resource has been estimated as current program is at an early exploration stage</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Where identifiable structures were apparent, samples were taken across said structure.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>• <i>The measures taken to ensure sample security.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Samples were secured in cable tied poly-weave sacks locked in ACM vehicles or facilities and remained in ACM custody from site to delivery to assay laboratory</li> </ul>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<ul style="list-style-type: none"> <li>• No audits or reviews have taken place.</li> </ul>

## Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>• <i>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.</i></li> <li>• <i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Cooletha tenements are owned by an ACM subsidiary Proterozoic Gold Pty Ltd.</li> <li>• No impediments to granted tenure exist.</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>• <i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Historic work reported at Cooletha was performed by Proterozoic Gold and reported to DMIRS and within the ACM IPO prospectus</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>• <i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Cooletha Project is prospective for pegmatite hosted LCT mineralisation, Channel Iron Deposits above the</li> </ul>

Criteria	JORC Code explanation	Commentary
		Fortescue Group and Conglomerate hosted gold and manganese shales at the base of the Fortescue Group.
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li>• 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:               <ul style="list-style-type: none"> <li>○ easting and northing of the drill hole collar</li> <li>○ elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>○ dip and azimuth of the hole</li> <li>○ down hole length and interception depth</li> <li>○ hole length.</li> </ul> </li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• No Drilling reported.</li> </ul>
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>• No drilling and no drill results reported</li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>• These relationships are particularly important in the reporting of Exploration Results.</li> <li>• If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>• 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’).</li> </ul>	<ul style="list-style-type: none"> <li>• No drilling reported.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Appropriate diagrams have been included in the report reflecting the work being performed.</li> </ul>

Criteria	JORC Code explanation	Commentary
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>No geochemistry has been reported</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>All material information has been reported in the press release. Tabulated information of significant assay results has been included in the press release.</li> </ul>
<b>Further work</b>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul style="list-style-type: none"> <li>Further sampling is planned at Cooletha. Final versions of the plan will be determined after further review of assays and announced in due course.</li> </ul>

Appendix A Rock Sample Assays

SAMPLE ID	EAST gda94z50	NORTH gda94z50	Be ppm	Fe ppm	K ppm	La ppm	Li2O ppm	Nb ppm	Rb ppm	Sr ppm	Ta ppm
CR001	707301	7564732	1.0	6300	59000	16.9	42.8	2.5	180.0	198.0	-1.0
CR002	707212	7564785	-1.0	4900	72000	7.7	34.9	1.6	191.0	245.0	-1.0
CR003	707020	7565064	1.0	8600	56600	14.7	45.2	3.2	162.0	240.0	-1.0
CR004	706954	7565277	-1.0	4100	50300	6.9	18.1	1.3	135.0	137.0	-1.0
CR005	706808	7565324	-1.0	8100	56400	10.3	33.8	1.8	126.0	254.0	-1.0
CR006	706773	7565346	-1.0	6900	54700	11.9	26.0	1.5	118.0	233.0	-1.0
CR007	708726	7564588	-1.0	6000	39500	5.7	18.1	1.4	135.0	116.0	-1.0
CR008	708724	7564596	2.0	5600	30300	7.9	22.4	4.5	121.0	107.0	-1.0
CR009	708726	7564604	2.0	6300	31800	12.6	30.1	5.3	118.0	106.0	-1.0
CR010	708732	7564618	1.0	8800	33300	18.7	35.7	3.1	107.0	125.0	-1.0
CR011	708798	7564618	-1.0	8600	33100	16.2	26.7	2.6	95.0	130.0	-1.0
CR012	709258	7564740	-1.0	4500	50800	5.6	10.8	1.0	144.0	186.0	-1.0
CR013	709096	7564525	1.0	5200	28900	12.6	16.4	1.4	85.0	173.0	-1.0
CR014	709332	7563948	-1.0	4200	54600	4.5	-1.1	0.6	148.0	164.0	-1.0
CR015	709116	7564129	-1.0	3500	52700	1.5	-1.1	0.7	134.0	154.0	-1.0
CR016	708873	7565628	-1.0	2300	50900	5.0	2.4	1.4	149.0	77.0	-1.0
CR017	709480	7565735	-1.0	3800	67000	8.3	15.1	1.1	160.0	175.0	-1.0
CR018	709586	7565775	-1.0	5200	54100	4.5	9.9	0.5	121.0	146.0	-1.0
CR019	709578	7565784	-1.0	6200	51100	11.0	14.0	1.6	104.0	199.0	-1.0
CR020	709590	7565773	-1.0	4800	72600	8.5	21.1	1.9	198.0	245.0	-1.0
CR021	709765	7565707	-1.0	6200	74700	17.0	18.9	2.6	232.0	181.0	-1.0
CR022	709240	7566809	-1.0	6300	28800	13.3	18.9	1.7	106.0	211.0	-1.0
CR023	709555	7566989	1.0	4800	65200	10.6	11.2	1.7	182.0	153.0	-1.0
CR024	709564	7566965	-1.0	4200	60300	11.3	15.1	1.6	163.0	193.0	-1.0
CR025	709551	7566953	-1.0	4200	67400	7.7	8.2	0.7	169.0	211.0	-1.0
CR026	709540	7566950	-1.0	3000	70400	2.6	8.4	-0.5	170.0	206.0	-1.0
CR027	709748	7566941	2.0	6300	70900	3.2	11.2	1.3	172.0	276.0	-1.0
CR028	709737	7566939	-1.0	5200	72100	5.2	7.1	1.2	199.0	215.0	-1.0
CR029	709761	7566595	2.0	6500	35900	11.7	22.0	2.3	109.0	280.0	-1.0
CR030	709784	7566551	1.0	6400	60300	13.3	28.2	2.6	155.0	230.0	-1.0
CR031	709939	7566606	2.0	6700	56100	9.2	10.3	1.9	143.0	178.0	-1.0
CR032	710237	7566600	2.0	3900	73300	6.0	4.1	0.6	171.0	188.0	-1.0
CR033	710131	7566393	-1.0	3600	77700	6.8	7.7	0.8	187.0	163.0	-1.0
CR034	710367	7566323	-1.0	5300	71400	5.8	13.1	0.8	194.0	167.0	-1.0
CR035	710135	7566828	2.0	5500	47100	7.7	9.9	0.9	119.0	220.0	-1.0
CR036	710203	7567006	-1.0	5700	53500	5.5	10.1	1.1	141.0	215.0	-1.0
CR037	710202	7566996	-1.0	3500	69500	3.5	15.7	1.0	190.0	177.0	-1.0
CR038	710217	7567000	-1.0	2800	61800	3.2	11.4	0.6	160.0	207.0	-1.0
CR039	710224	7567004	-1.0	3100	55100	5.0	3.2	-0.5	155.0	149.0	-1.0
CR040	710243	7566977	-1.0	2900	46100	4.2	12.1	1.8	138.0	84.0	-1.0
CR041	710313	7566954	-1.0	2700	81500	4.2	9.7	0.9	214.0	136.0	-1.0
CR042	710324	7566948	-1.0	1800	72500	3.7	6.5	-0.5	200.0	189.0	-1.0
CR043	710341	7566936	-1.0	3000	73400	4.6	-1.1	-0.5	173.0	171.0	-1.0
CR044	710366	7566924	-1.0	1700	80000	5.1	-1.1	-0.5	193.0	183.0	-1.0
CR045	710382	7566926	-1.0	4300	75500	9.0	7.5	1.7	194.0	182.0	-1.0
CR046	710418	7566921	-1.0	3600	75800	7.2	9.3	1.2	214.0	195.0	-1.0
CR047	710520	7566887	-1.0	4200	70100	5.5	6.7	1.2	196.0	162.0	-1.0

CR048	710607	7566890	-1.0	1300	64000	1.5	1.5	-0.5	182.0	139.0	-1.0
CR049	710700	7566766	-1.0	2300	72600	2.3	5.2	-0.5	206.0	110.0	-1.0
CR050	710722	7566757	-1.0	1900	79200	1.8	2.8	-0.5	214.0	127.0	-1.0
CR051	710810	7566741	-1.0	3200	74200	4.5	1.1	1.1	260.0	237.0	-1.0
CR052	710832	7566731	-1.0	2800	76300	2.4	7.1	1.1	194.0	127.0	-1.0
CR053	710984	7566880	1.0	5000	51100	9.6	18.5	2.6	166.0	167.0	-1.0
CR054	710962	7566938	1.0	3200	25600	3.1	8.8	0.9	88.0	87.0	-1.0
CR055	710411	7567572	-1.0	3200	65600	12.4	6.5	0.5	228.0	133.0	-1.0
CR056	710434	7567564	2.0	4200	69000	7.7	16.8	1.5	191.0	210.0	-1.0
CR057	710437	7567574	-1.0	3600	62600	4.0	12.1	0.9	157.0	150.0	-1.0
CR058	710556	7567650	-1.0	4700	48900	15.4	21.1	1.4	151.0	118.0	-1.0
CR059	711048	7567420	1.0	6000	37000	13.8	25.0	3.2	94.0	144.0	-1.0
CR060	710922	7567219	1.0	4400	69900	8.2	12.9	1.9	155.0	172.0	-1.0
CR061	710958	7567193	1.0	9500	29500	16.5	19.2	3.2	77.0	180.0	-1.0
CR062	711321	7567036	-1.0	7500	69400	16.9	20.7	2.2	162.0	245.0	-1.0
CR063	711329	7566899	-1.0	4200	71200	7.9	10.1	1.3	166.0	286.0	-1.0
CR064	711309	7566744	1.0	8100	74000	17.3	28.2	4.6	207.0	168.0	-1.0
CR065	711339	7566709	-1.0	3100	73600	2.4	4.1	-0.5	184.0	155.0	-1.0
CR066	711121	7566363	-1.0	2900	67200	1.5	1.7	-0.5	166.0	138.0	-1.0
CR067	711048	7566183	-1.0	4400	55000	2.9	1.3	2.1	213.0	66.0	-1.0
CR068	710985	7566140	-1.0	4000	57000	1.3	-1.1	-0.5	187.0	65.0	-1.0
CR069	710777	7566009	-1.0	4700	44000	2.3	1.3	1.3	130.0	125.0	-1.0
CR070	710721	7565799	-1.0	2400	63600	4.1	-1.1	-0.5	196.0	97.0	-1.0
CR071	710656	7565974	-1.0	3500	62600	6.9	-1.1	0.6	207.0	102.0	-1.0
CR072	722626	7556219	-1.0	5900	39500	18.4	6.9	1.4	151.0	67.0	-1.0
CR073	722548	7556237	1.0	6900	57500	13.3	7.1	1.6	169.0	123.0	-1.0
CR074	722486	7556195	-1.0	2000	91200	5.6	-1.1	-0.5	280.0	128.0	-1.0
CR075	722484	7556130	-1.0	6400	38600	42.3	11.6	1.8	119.0	111.0	-1.0
CR076	722214	7556188	-1.0	5600	59000	9.5	10.3	0.9	231.0	129.0	-1.0
CR077	722076	7556405	-1.0	4300	61600	6.4	11.6	0.7	196.0	86.0	-1.0
CR078	722019	7556418	-1.0	3800	39700	15.4	17.7	1.3	147.0	103.0	-1.0
CR079	721993	7556410	1.0	6600	39400	6.7	15.5	1.0	98.0	134.0	-1.0
CR080	721962	7556409	2.0	7300	34800	12.3	22.0	1.9	113.0	174.0	-1.0
CR081	721858	7556355	1.0	5100	63600	3.9	12.1	0.8	178.0	156.0	-1.0
CR082	722477	7555971	1.0	3400	56900	2.6	4.3	-0.5	163.0	214.0	-1.0
CR083	722417	7555949	-1.0	4100	44500	3.0	-1.1	-0.5	148.0	116.0	-1.0
CR084	722164	7555930	-1.0	11200	20500	11.9	6.2	5.2	91.0	21.0	-1.0
CR085	722060	7555803	-1.0	5000	37900	12.1	8.8	1.4	154.0	39.0	-1.0
CR086	722055	7555797	-1.0	5800	22100	2.4	3.4	1.0	53.0	58.0	-1.0
CR087	722033	7555779	-1.0	4700	64200	2.5	-1.1	-0.5	206.0	116.0	-1.0
CR088	721961	7555631	1.0	288000	7600	21.6	89.6	4.9	60.0	84.0	-1.0
CR089	721834	7555809	-1.0	5200	64600	12.2	45.6	2.7	134.0	105.0	-1.0
CR090	721963	7556100	2.0	4100	59900	20.6	38.1	22.0	86.0	134.0	2.0
CR091	721625	7556124	2.0	4700	50500	22.0	66.5	14.0	76.0	138.0	1.0
CR092	721114	7556426	2.0	4200	51400	22.0	53.8	18.7	83.0	121.0	1.0
CR093	721088	7556439	2.0	5000	57400	9.3	35.5	1.9	195.0	96.0	-1.0
CR094	720914	7556331	2.0	246000	11700	15.1	87.2	8.5	90.0	120.0	-1.0
CR095	702777	7571880	0.2	5380	44900	2.9	15.1	0.0	90.0	125.0	0.1
CR096	702552	7571483	0.6	4280	63800	0.9	6.9	0.5	150.0	109.0	0.1
CR097	702603	7571351	0.2	4470	59600	2.7	12.3	0.0	160.0	111.0	0.1
CR098	702612	7571088	0.5	4990	51200	7.5	10.1	0.0	180.0	356.0	0.1
CR099	702319	7570867	0.2	3150	66300	1.7	12.9	0.0	135.0	193.0	0.0
CR101	701947	7570912	0.9	7340	43900	14.1	104.6	2.1	131.0	45.2	0.2

CR102	701968	7570911	0.3	6990	42400	8.8	37.5	1.1	84.0	50.1	0.1
CR103	701705	7570839	0.5	7050	36100	6.5	20.5	0.7	75.6	148.0	0.1
CR104	701644	7570786	0.6	5820	42800	3.5	18.9	0.9	95.3	192.0	0.1
CR105	701633	7570611	0.9	14500	36200	45.8	46.1	2.5	77.5	351.0	0.1
CR106	701780	7570659	0.4	3980	50300	1.9	12.3	0.0	121.0	215.0	0.0
CR107	701990	7570302	0.9	7030	49600	7.2	26.9	0.5	89.4	229.0	0.1
CR108	701997	7570181	0.5	5870	69100	2.8	17.0	0.0	131.0	212.0	0.1
CR109	702011	7570081	0.4	4980	64800	5.5	13.8	0.0	135.0	218.0	0.0
CR110	701990	7569921	1.5	4700	28500	7.0	26.3	0.9	73.9	249.0	0.1
CR111	701947	7569531	0.6	4080	73200	4.6	14.2	0.7	152.0	210.0	0.1
CR112	701676	7569537	0.5	3330	48400	4.1	10.1	0.5	160.0	174.0	0.1
CR113	701655	7569505	0.7	6200	57800	8.0	13.3	1.2	137.0	221.0	0.1
CR114	702387	7568925	0.8	5860	55000	7.9	9.9	2.4	147.0	144.0	0.3
CR115	702446	7569524	0.7	8800	48900	3.5	9.7	0.0	157.0	147.0	0.0
CR116	702440	7569516	0.5	3900	46900	1.1	6.7	0.0	160.0	141.0	0.1
CR117	702419	7569526	1.1	6530	51400	8.7	19.4	1.2	116.0	220.0	0.1
CR118	702323	7569469	0.7	4040	58800	2.3	4.7	0.0	180.0	155.0	0.1
CR119	702325	7569471	0.6	6900	59600	2.6	11.6	0.6	149.0	167.0	0.1
CR121	701923	7569363	0.7	4260	57600	3.8	81.8	0.5	141.0	220.0	0.1
CR122	701923	7569358	0.4	5390	74300	1.4	6.2	0.0	191.0	154.0	0.1
CR123	701660	7569303	0.5	3270	72000	1.5	8.8	0.0	154.0	203.0	0.0
CR124	701634	7569298	0.7	7530	55900	20.5	17.4	0.9	107.0	231.0	0.1
CR125	701592	7569332	0.9	6300	59700	59.4	15.9	1.0	116.0	329.0	0.1
CR126	701487	7568731	0.9	12400	27900	63.3	32.7	1.1	59.1	216.0	0.1
CR127	701495	7568656	1.0	6500	35700	11.1	10.3	1.3	74.0	244.0	0.1
CR128	701796	7568298	0.9	8070	32500	3.1	21.5	1.3	80.5	77.3	0.1
CR129	701934	7568305	0.9	8100	34200	9.6	74.1	1.4	82.3	53.3	0.1
CR130	702456	7568846	0.2	5050	44600	2.2	8.6	0.0	168.0	151.0	0.1
CR131	702456	7568839	0.4	3090	61500	1.2	5.6	0.0	150.0	169.0	0.0
CR132	702137	7568230	1.3	7260	59300	6.3	11.6	6.1	196.0	108.0	0.3
CR133	702150	7568086	0.6	4570	54000	8.9	12.1	0.0	130.0	145.0	0.1
CR134	702237	7568026	0.4	15400	67700	5.6	11.2	0.0	189.0	121.0	0.0
CR135	702303	7567893	0.8	4590	57200	4.7	14.2	0.0	298.0	206.0	0.1
CR136	702906	7568571	0.7	5510	43200	0.9	6.9	0.0	174.0	251.0	0.1
CR137	703589	7569877	0.6	2460	42900	1.3	12.5	0.0	270.0	117.0	0.1
CR138	703609	7569863	0.5	7460	62000	2.2	12.5	0.7	129.0	160.0	0.1
CR139	704204	7568676	0.2	3230	44200	0.9	8.8	0.0	149.0	184.0	0.1
CR141	704236	7568635	1.6	16500	16300	6.6	116.0	4.4	41.1	177.0	0.4
CR142	704258	7568630	1.0	10100	36500	21.7	30.4	1.7	83.7	196.0	0.1
CR143	704253	7568624	0.5	5860	46900	9.5	7.7	0.7	171.0	216.0	0.1
CR144	704420	7568534	1.2	6770	45200	19.7	14.2	1.4	118.0	141.0	0.1
CR145	704377	7568446	0.6	4550	51200	3.8	13.6	0.0	204.0	260.0	0.0
CR146	704381	7568443	1.1	5980	60400	6.6	20.5	0.9	127.0	216.0	0.1
CR147	704154	7567790	1.1	8440	49500	16.1	15.1	0.8	112.0	210.0	0.1
CR148	704124	7567734	1.1	4840	52600	9.7	15.9	1.1	128.0	290.0	0.1
CR149	703661	7567861	1.7	6130	39400	5.2	22.0	0.0	83.7	211.0	0.0
CR150	703403	7568768	0.8	5990	39000	10.3	22.6	1.1	99.4	110.0	0.1
CR151	703049	7567476	0.3	5140	53900	2.4	8.0	0.0	236.0	77.4	0.1
CR152	702748	7567341	1.1	7480	44600	20.3	22.2	2.7	160.0	61.3	0.2
CR153	702481	7567243	1.3	6780	50300	3.6	11.4	9.8	142.0	85.8	0.3
CR154	702259	7567191	0.8	3530	42900	5.7	11.2	1.1	296.0	106.0	0.1
CR155	702444	7566621	1.9	4610	50500	0.7	6.7	10.1	294.0	21.3	1.9
CR156	702652	7566587	0.4	3690	58300	4.3	16.1	0.0	138.0	251.0	0.0



CR157	704054	7566421	1.3	6670	48300	6.7	14.9	1.7	135.0	164.0	0.2
CR158	705121	7566298	0.7	4880	40700	22.0	17.0	1.2	100.0	109.0	0.1
CR159	705353	7566462	0.5	5010	45400	3.2	14.0	0.0	162.0	240.0	0.0
CR161	705439	7566521	0.3	2220	49000	3.1	70.4	0.0	172.0	245.0	0.0
CR162	705441	7566525	1.1	4090	42000	2.2	5.2	0.0	147.0	246.0	0.0
CR163	705474	7566733	0.5	1860	46100	3.0	7.3	0.0	181.0	257.0	0.0
CR164	706062	7566612	0.5	4210	47000	1.8	6.0	0.0	164.0	232.0	0.0
CR165	706068	7566207	0.4	2560	51500	2.8	7.1	1.0	210.0	64.4	0.2
CR166	706207	7566167	0.3	6960	56700	49.9	10.5	1.1	169.0	60.3	0.2
CR167	701613	7570848	0.9	5930	35100	8.2	6.9	1.0	101.0	205.0	0.1
CR168	701399	7571041	0.4	3760	61400	3.3	3.0	0.0	172.0	199.0	0.1
CR169	701693	7569336	0.4	13500	70700	3.6	3.9	0.0	148.0	203.0	0.0
CR170	701692	7569325	2.7	5770	2990	3.7	2.8	6.0	11.4	60.4	0.8
CR171	701655	7569300	0.6	3210	68000	4.2	4.7	0.0	133.0	214.0	0.0
CR172	701656	7569308	0.9	5290	41300	14.9	9.9	1.0	86.3	303.0	0.1
CR173	701650	7569316	1.8	4560	43600	10.5	8.4	0.8	103.0	230.0	0.1
CR174	701631	7569364	0.8	4270	67500	2.3	9.7	0.0	148.0	232.0	0.0
CR175	706347	7562451	0.4	2400	55700	0.9	7.3	0.0	197.0	157.0	0.1
CR176	704860	7563098	0.7	4330	64000	4.3	10.8	0.0	126.0	321.0	0.0
CR177	704854	7563155	1.2	28500	42500	30.6	35.3	6.9	85.5	314.0	0.4
CR178	704776	7563751	0.9	5250	59100	14.9	10.8	1.6	141.0	182.0	0.2
CR179	704499	7564007	1.2	78500	12900	17.4	266.9	7.9	74.3	32.4	0.7
CR181	704560	7564054	1.1	79600	16300	8.0	181.3	5.3	108.0	7.4	0.5
CR182	704635	7563987	0.9	95300	2290	10.0	230.3	2.2	11.3	42.8	0.2
CR183	704711	7563983	0.6	7920	63900	6.0	10.5	0.5	124.0	244.0	0.1
CR184	704848	7564068	1.4	37000	294	2.6	63.7	0.0	0.5	22.5	0.0
CR185	704880	7564560	1.4	21600	32600	34.2	62.6	6.8	89.7	254.0	0.5
CR186	704775	7564438	0.7	3510	56600	3.8	11.2	0.7	192.0	217.0	0.1
CR187	704790	7564285	1.1	4230	44500	9.2	5.6	3.8	289.0	35.3	0.5
CR188	704779	7564257	1.0	85700	0	2.8	140.6	0.9	0.8	29.4	0.1
CR189	704484	7564790	0.9	11600	43500	57.5	17.2	1.1	83.1	291.0	0.1
CR190	704209	7565599	0.6	98600	1520	13.8	195.0	2.5	7.6	56.2	0.3
CR191	705015	7565116	1.4	15500	28800	22.2	23.2	1.9	62.2	439.0	0.1
CR192	705364	7565110	0.2	2800	46700	1.9	0.0	0.9	185.0	99.8	0.1
CR193	704255	7562760	0.7	41400	15500	11.2	66.3	2.2	44.0	56.6	0.3
CR194	704284	7562760	0.7	18600	903	39.5	27.8	0.0	3.8	37.8	0.1
CR195	704297	7562677	0.4	4080	67800	0.8	1.9	0.0	139.0	296.0	0.0
CR196	704215	7562591	0.5	3640	51200	1.6	0.0	0.0	149.0	181.0	0.0
CR197	704201	7562592	0.5	4600	54400	1.5	5.4	0.0	149.0	308.0	0.1
CR198	704192	7562591	0.7	3790	56200	3.1	1.9	0.0	128.0	282.0	0.0
CR199	704163	7562588	0.5	3440	40000	1.3	5.4	0.0	127.0	365.0	0.0
CR201	703946	7562062	0.2	4040	46200	2.6	101.8	0.0	112.0	245.0	0.0
CR202	704009	7562029	0.6	4230	43100	2.1	8.6	0.0	116.0	306.0	0.0
CR203	704012	7561971	0.5	3070	46300	2.0	7.7	0.0	119.0	311.0	0.0
CR204	704178	7561788	0.7	3880	69100	3.0	10.5	0.0	150.0	251.0	0.0
CR205	704165	7561606	0.7	3210	77000	1.1	70.6	0.0	140.0	249.0	0.1
CR206	704132	7561527	0.3	4660	35600	2.2	7.7	0.0	114.0	292.0	0.0
CR207	704223	7561247	0.2	4370	41700	1.7	8.8	0.0	144.0	263.0	0.0
CR208	704229	7561239	0.7	4430	36100	10.2	2.8	0.0	68.7	156.0	0.0
CR209	704305	7561137	0.5	3850	37200	2.7	4.3	0.0	173.0	186.0	0.1
CR210	704445	7561143	0.9	2610	38500	3.7	3.7	0.0	128.0	205.0	0.0
CR211	723512	7557497	0.8	5630	39500	3.8	15.9	0.0	116.0	41.6	0.0
CR212	722903	7557550	0.7	5280	40000	5.0	18.9	5.3	251.0	40.5	0.9

CR213	722631	7557674	1.7	408000	187	2.6	3.9	0.7	0.6	3.3	0.1
CR214	721292	7557111	1.5	25300	43300	8.7	21.3	3.7	197.0	70.2	0.4
CR215	720915	7557023	1.3	117000	3590	22.1	273.4	3.5	16.0	50.4	0.3
CR216	720646	7557030	1.4	32300	3370	18.3	95.1	7.0	23.3	47.6	0.5
CR217	721469	7556423	1.5	554000	0	4.1	5.0	2.2	0.4	13.1	0.3
CR218	721462	7556397	0.8	28300	43400	8.5	5.0	0.0	304.0	78.1	0.1
CR219	724056	7557312	1.3	3060	42100	5.3	15.5	1.5	371.0	95.3	0.7
CR221	723699	7557575	0.5	7660	41400	3.6	115.8	2.3	211.0	43.3	0.3
CR222	722591	7558867	2.2	7460	19300	4.0	23.2	4.3	98.4	61.2	0.5
CR223	722334	7558646	1.5	14900	35600	13.7	24.8	3.6	174.0	73.8	0.4
CR224	710177	7567021	0.7	5520	52800	2.4	10.8	0.0	136.0	228.0	0.1
CR225	710118	7567005	0.8	5750	74700	3.3	11.6	0.0	148.0	209.0	0.1
CR226	710135	7567042	1.6	5020	42400	9.3	9.3	1.5	102.0	247.0	0.2
CR227	704530	7561043	1.8	3710	41000	7.7	13.1	1.5	108.0	146.0	0.2
CR228	704478	7560933	0.6	6990	46700	17.8	21.3	1.9	122.0	146.0	0.1
CR229	704480	7560823	1.1	22800	3780	13.4	63.7	3.0	26.1	54.9	0.3
CR230	704456	7560874	0.1	4020	53100	7.2	9.7	0.0	142.0	191.0	0.0
CR231	704465	7560858	3.4	4170	50400	7.5	11.8	4.1	184.0	31.2	2.4
CR232	704532	7560709	0.7	2770	40000	1.3	12.1	0.0	172.0	207.0	0.0
CR233	704541	7560589	1.2	4890	58800	4.1	6.7	4.0	191.0	148.0	0.4
CR234	704533	7560514	1.4	9630	21200	12.0	48.0	1.8	53.2	62.1	0.1
CR235	704701	7560478	0.3	2980	78900	1.4	14.2	0.0	140.0	263.0	0.5
CR236	704959	7560521	0.6	2990	75900	2.3	15.3	0.0	147.0	213.0	0.3
CR237	705098	7560830	1.5	3060	47700	4.2	7.5	4.3	138.0	80.0	0.8
CR238	704496	7560860	0.8	33300	17100	14.2	84.8	4.0	45.7	109.0	0.5
CR239	707532	7562524	0.3	2470	54100	0.9	12.5	0.0	164.0	226.0	0.2
CR241	707727	7562090	0.2	3020	71000	1.4	98.4	0.0	190.0	221.0	0.1
CR242	707776	7561961	0.7	13600	49300	4.3	11.2	3.5	159.0	50.1	0.3
CR243	707755	7561842	0.2	2910	67300	1.7	6.7	0.0	180.0	200.0	0.0
CR244	707899	7561404	0.3	3040	53400	2.2	22.6	0.0	161.0	120.0	0.1
CR245	707877	7561366	0.3	3290	60100	3.4	7.3	0.0	183.0	148.0	0.1
CR246	707862	7561337	0.4	3570	52000	1.5	12.5	0.8	161.0	149.0	0.1
CR247	707817	7561339	0.2	2950	49000	1.6	9.9	0.0	152.0	161.0	0.1
CR248	707805	7561340	0.4	3420	56700	10.0	7.7	0.6	113.0	130.0	0.1
CR249	707680	7561885	0.2	2240	48200	1.7	11.0	0.0	135.0	245.0	0.0
CR250	707453	7561546	0.2	4990	49400	9.3	18.7	2.5	167.0	66.1	0.3
CR251	707341	7561526	0.3	3750	48600	3.4	13.8	1.0	147.0	176.0	0.1
CR252	707284	7561504	0.3	2430	44800	2.9	9.7	0.0	150.0	201.0	0.1
CR253	707023	7561445	0.2	3640	54100	1.6	15.7	0.9	191.0	215.0	0.1
CR254	706966	7561219	0.3	3180	50100	3.1	4.5	0.0	167.0	154.0	0.0
CR255	706872	7561270	1.1	3290	68000	3.7	10.8	2.8	196.0	103.0	0.5
CR256	706863	7561214	0.2	3500	81800	3.0	23.7	1.0	160.0	191.0	0.1
CR257	706708	7561164	0.3	7330	18500	18.8	39.0	0.7	49.5	47.4	0.0
CR258	706709	7561155	0.2	3760	69500	1.6	15.9	0.0	146.0	152.0	0.0
CR259	706667	7561236	0.0	3920	45400	2.6	13.6	0.0	119.0	206.0	0.0

### Appendix B      Rock Sample Descriptions

SAMPLE ID	EAST gda94z50	NORTH gda94z50	DESCRIPTION
CR001	707301	7564732	Redmont: med g white qz-feldspar biotite pegmatite o/c in spinifex
CR002	707212	7564785	Redmont: coarse grained white orthoclase rich pegmatite o/c-rubble
CR003	707020	7565064	Redmont: white fg alpine dyke-orthoclase rich cg pegmatite o/c
CR004	706954	7565277	Redmont: cg K-spar rich pegmatite rubble/subcrop
CR005	706808	7565324	Redmont: cg orthoclase rich pegmatite rubble/subcrop
CR006	706773	7565346	Redmont: massive platform of pink monzogranite with scattered masses of orthoclase rich pegmatite up to 0.5m diam. As irregular pods.
CR007	708726	7564588	O/c in creek bed of massive pegmatite with cg orthoclase crystals 10-20cm dial with subordinate qz fill
CR008	708724	7564596	Redmont: massive o/c on creek bed pavement of pegmatite-monzogranite with cg orthoclase to 10cm diam subordinate qz-biotite
CR009	708726	7564604	Redmont: massive pegmatite at 045/225 about 2m thick
CR010	708732	7564618	N side of creek bed-irregular pegmatite zones in monzogranite o/c, crystals to 5cm diam.
CR011	708798	7564618	Redmont: cg pegmatite o/c mixed with monzogranite; irregular masses of cg orthoclase
CR012	709258	7564740	Ghost Gum junction: cg qz rich pegmatite sills about 1m thick in massive monzogranite
CR013	709096	7564525	Narrow <1m thick sills of orthoclase qz-biotite pegmatite o/c in main creek bed
CR014	709332	7563948	Narrow irregular zones of orthoclase qz-biotite pegmatite in medium grained monzogranite; junction into hidden valley with no access
CR015	709116	7564129	Redmont: weak irregular pegmatite zone med g foliated monzogranite, narrow sheeted veinlets at 360/180
CR016	708873	7565628	Redmond-big sand plain/spinifex: narrow K-spar-qz sills o/c
CR017	709480	7565735	Redmont: S flank of big granite sheet subcrop cg orthoclase-qz-pegmatite
CR018	709586	7565775	Redmont: large sheet/sub-horizontal of cg orthoclase -qz-biot pegmatite o/c
CR019	709578	7565784	Redmont: qz-orthoclase pegmatite o/c
CR020	709590	7565773	SE end of sheets of orthoclase-qz pegmatite on plattform-flat sill
CR021	709765	7565707	Echo Valley: red brown weathered orthoclase-qz-pegmatite o/v vertical face 1m high; close to unconformity with basal Fortescue Group conglomerate
CR022	709240	7566809	Echo Valley: cg white orthoclase rich pegmatite subcrop at base of Fortescue
CR023	709555	7566989	Echo Valley: very coarse grained pale green-yellow elongate crystals of ?spodumene rich pegmatite o/c
CR024	709564	7566965	Echo Valley: very cg (>30cm) crystals of ?spodumene rich pegmatite-pale cream-green-grey ôashö elongate cleavage hard crystals Cinza
CR025	709551	7566953	Echo Valley: very cg (+30cm) euhedral crystalline ?spodumene pegmatite o/c
CR026	709540	7566950	Echo Valley: massive +30cm diam euhedral crystalline ?spodumene rich pegmatite in sill +3m thick; monzogranite FW Pedra Cinza
CR027	709748	7566941	Pedra Cinza zone: narrow ~1m thick pegmatite sill with cg anhedral orthoclase up to 25cm diam in o/c
CR028	709737	7566939	Pedra Cinza zone pinching out to SW cg orthoclase -qz pegmatite o/c on ridge
CR029	709761	7566595	Up elongate fissure (rock holes) into cg orthoclase pegmatite (30cm size) sill about 2m thick ôBig Crack Canyonö; sub-horizontal

CR030	709784	7566551	Further up gulch (rock holes) into cg orthoclase pegmatite sill about 2m thick
CR031	709939	7566606	Further around valley into irregular zone of orthoclase pegmatite mixed with monzogranite o/c
CR032	710237	7566600	Cg (+20cm) orthoclase rich pegmatite o/c on broad flat
CR033	710131	7566393	Cg (10-15cm) orthoclase-qz pegmatite o/c
CR034	710367	7566323	Cg orthoclase -qz pegmatite (crystals 15-20cm diam) irregular/anedral
CR035	710135	7566828	Redmont E: irregular orthoclase -qz-biotite pegmatite o/c on spinifex flat
CR036	710203	7567006	Burnt Ridge zone: burnt out spinifex ridge with cg monzogranite & irregular orthoclase-qz pegmatite zones with crystals up to 5cm diam.
CR037	710202	7566996	Burnt Ridge: white orthoclase -qz pegmatite o/c
CR038	710217	7567000	Burnt Ridge: elongate hard grey-green crystalline ?spodumene pegmatite
CR039	710224	7567004	Burnt Ridge: massive boulders of elongate grey-green hard crystalline ?spodumene o/c
CR040	710243	7566977	Burnt Ridge: white drussy/vuggy orthoclase pegmatite with tourmaline-cassiterite crystals to 1mm size: greisen style alteration
CR041	710313	7566954	Burnt Ridge: cg elongate pale cream-grey crystalline spodumene pegmatite dyke
CR042	710324	7566948	K-spar rich crystalline 5cm diam graphic textured qz-orthoclase pegmatite o/c
CR043	710341	7566936	Burnt Ridge: elongate hard crystalline grey green pegmatite as irregular zones/dyke
CR044	710366	7566924	Further S into crystalline K-spar qz-biotite pegmatite cut by E-W qz vein
CR045	710382	7566926	As above-cg K-spar crystalline qz pegmatite o/c
CR046	710418	7566921	Cg balls of orthoclase crystalline irregular textured pegmatite o/c
CR047	710520	7566887	Top of Burnt Ridge: elongate dykes at 075/255 of cg 10-15cm diam orthoclase-qz pegmatite ôHill 422ö
CR048	710607	7566890	Grey cg K-spar/orthoclase-qz pegmatite o/c
CR049	710700	7566766	White mg orthoclase-qz pegmatite dyke o/c at 280/100 vertical dip
CR050	710722	7566757	White cg orthoclase -qz pegmatite o/c dyke
CR051	710810	7566741	White mg orthoclase-qz pegmatite o/c on ridge top; dyke swarms of late grey hard fg qz-biotite microporphyry at 310/130 strike
CR052	710832	7566731	Cg orthoclase-qz pegmatite o/c 5-10cm diam crystals o/c
CR053	710984	7566880	Cg white orthoclase -qz-biotite pegmatite o/c Burnt Ridge to the SE
CR054	710962	7566938	Rubbly o/c of sheeted NW striking cg orthoclase pegmatite dyke at 285/105 strike; layered monzogranite ridge cut by pegmatite dykes & late qz porphyry dykes
CR055	710411	7567572	Mg orthoclase-qz pegmatite 0/c , large sill cut by qz porphyry dykes at 264/084
CR056	710434	7567564	O/c in burnt out gully of thick +3m orthoclase-qz pegmatite sill
CR057	710437	7567574	Cg (10-15cm diam) orthoclase-qz pegmatite with distinctive graphic texture-banded ôbrain rock ô monzogranite deep cupola with slow cooling fractionating into unilateral crystallisation textures
CR058	710556	7567650	Cg graphic texture white orthoclase-qz pegmatite ôbrain rockö on NE side of Hill 450
CR059	711048	7567420	Rubbly o/c of qz-orthoclase pegmatite
CR060	710922	7567219	Graphic texture orthoclase-qz pegmatite o/c
CR061	710958	7567193	Cg (10-15cm) orthoclase-qz graphic texture pegmatite on ridge E of Hill 450
CR062	711321	7567036	Cg white orthoclase-qz graphic texture pegmatite associated with late qz-biotite porphyry dykes intruded into mg foliated monzogranite

CR063	711329	7566899	White-grey crystalline orthoclase-qz pegmatite irregular zone cut by zoned pegmatite veins at 320/140; broad flat sheet of monzogranite with narrow veinlets at 350/170 strike
CR064	711309	7566744	Massive (+0.5m) white orthoclase crystal o/c; irregular bodies & masses in monzogranite cut by qz-biotite porphyry dykes
CR065	711339	7566709	Pegmatite o/c 20-30cm size anhedral orthoclase crystals cut by multiple qz-biotite porphyry dykes & sills; really mangled up geology
CR066	711121	7566363	Rubble o/c of qz-orthoclase pegmatite on ridge 1250m east of Hill 450
CR067	711048	7566183	Rubble o/c of orthoclase-qz-biotite pegmatite on side of massive granite dome
CR068	710985	7566140	Flat sheets 1m thick of orthoclase-qz pegmatite o/c
CR069	710777	7566009	Very hard grey-cream crystalline qz-orthoclase pegmatite (10-20cm size crystals)
CR070	710721	7565799	Irregular zones of orthoclase-qz pegmatite in sheeted zones going 018/198 strike
CR071	710656	7565974	Sills of orthoclase-pegmatite ~1m thick on flat sheets of cg (+30cm) orthoclase pegmatite-massive zones with basal Fortescue Group conglomerate to south
CR072	722626	7556219	Equigranular weathered granite
CR073	722548	7556237	Sheared pegmatitic granite o/c at 210/030 strike
CR074	722486	7556195	Up ridge to SW-c.g. (10-15cm) orthoclase pegmatite
CR075	722484	7556130	Cg (10cm) orthoclase-qz-biotite pegmatite o/c
CR076	722214	7556188	Weathered orthoclase pegmatite o/c in creek bed
CR077	722076	7556405	East of Mesa 444: weathered orthoclase rich pegmatitic granite o/c in spinifex
CR078	722019	7556418	Weathered rubbly orthoclase-qz-biotite monzogranite o/c with feldspars up to 10cm diam on spinifex ridge
CR079	721993	7556410	Sugary textured aplitic orthoclase-qz-biotite granite o/c
CR080	721962	7556409	Mg weathered orthoclase-qz-biotite pegmatitic granite sill
CR081	721858	7556355	Sheared pegmatitic granite sill at 040/220 strike; SW side of Mesa 444
CR082	722477	7555971	White cg (10-20cm diam) orthoclase-qz pegmatite on wash plain with sheets of sheared pegmatitic monzogranite strongly foliated on 040/220 trends
CR083	722417	7555949	White m.g. qz-orthoclase-biotite monzogranite subcrop on spinifex plain
CR084	722164	7555930	Pink cg K-spar rich greisen in monzogranite o/c
CR085	722060	7555803	Up ridge to S: irregular masses of cg qz-sericite-orthoclase sheared greisen
CR086	722055	7555797	Cg qz-orthoclase+/-fg tourmaline greisen o/c
CR087	722033	7555779	Cg pegmatitic qz-orthoclase monzogranite o/c on ridge
CR088	721961	7555631	Shallow S dipping gently folded basal Fortescue Group purple manganiferous shale beds 1m thick strike 280/100 dip -10 to 190 deg. Dolomitic shale/nodular shale etc
CR089	721834	7555809	Pegmatitic dykes (interconnected) at 026/206 up to 0.5m wide on monzogranite pavement
CR090	721963	7556100	Irregular NW-SE trending qz-orthoclase pegmatitic dykes in monzogranite
CR091	721625	7556124	Orthoclase crystal rich =qz pegmatite o/c as irregular dykes 1-2m wide
CR092	721114	7556426	Cg orthoclase-qz pegmatite o/c and rubble
CR093	721088	7556439	Rubbly orthoclase-qz pegmatite o/c with hills of basal Fortescue Group to W & N
CR094	720914	7556331	Bluff of manganiferous basal Fortescue Group shale beds 1-3m thick
CR095	702777	7571880	White mg orthoclase rich monzogranite on spinifex plain

CR096	702552	7571483	White cg orthoclase -qz pegmatitic monzogranite suncrop on spinifex plain
CR097	702603	7571351	Cg white orthoclase-qz pegmatite o/c
CR098	702612	7571088	Large sheet o/c of irregular orthoclase-qz pegmatite in monzogranite
CR099	702319	7570867	O/c on ridge W of old alluvial gravel plain of cg (10-15cm diam) orthoclase-qz (graphic text) pegmatite
CR101	701947	7570912	O/c on ridge of cg (20-30cm diam) orthoclase-epidote+/- sericite altered rock at 077/257 strike
CR102	701968	7570911	Further to E: siliceous greisen with 5-10cm anhedral orthoclase xsts
CR103	701705	7570839	Large sheets of flat monzogranite with irregular (1-2m thick) sills of mg orthoclase-qz pegmatite
CR104	701644	7570786	Slabs of greisen (?tantalite with pink qz-orthoclase-biotite+/-tourm) pegmatite
CR105	701633	7570611	Mg white-orthoclase-qz-biotite pegmatitic monzogranite
CR106	701780	7570659	Mg 5-10cm daim orthoclase anhedra in qz monzogranite sheet
CR107	701990	7570302	Mg (5-10cm) anhedral orthoclase rich pegmatitic monzogranite o/c on spinifex plain
CR108	701997	7570181	O/c of pegmatitic monzogranite with creaaam mg orthoclase-qz rich anhedral xsts up to 5cm diam
CR109	702011	7570081	Subcrop on spinifex plain of cg (10-15cm) anhedral xstalline orthoclase pegmatite
CR110	701990	7569921	Mg orthoclase rich qz pegmatitic monzogranite
CR111	701947	7569531	massive xstalline 30-50cm size orthoclase rich pegmatite o/c
CR112	701676	7569537	Cg orthoclase 920-30cm) euhedral xstalline pegmatite o/c at base of bluff
CR113	701655	7569505	Up slope: massive o/c of mega-xstalline (up to 60cm) orthoclase pegmatite adjacent to foliated amphibolite xenoclasts at 060/240 strike
CR114	702387	7568925	Irregular zones & sheets of pegmatitic monzogranite on spinifex plain
CR115	702446	7569524	white xstalline orthoclase-qz pegmatite o/c
CR116	702440	7569516	Pedra Cinza ash coloured xstalline ?spodumene bearing pegmatite
CR117	702419	7569526	Orthoclase-qz phyric pegmatie o/c
CR118	702323	7569469	Mega-xstalline (1.5m diam) orthoclase-spodumene bearing pegmatite
CR119	702325	7569471	Mega-xstalline (1.5m diam) orthoclase-spodumene bearing pegmatite
CR121	701923	7569363	Cg (10-15cm) orthoclase-qz graphic textured pegmatitic monzogranite
CR122	701923	7569358	Cg (10-15cm) orthoclase-qz graphic textured pegmatitic monzogranite
CR123	701660	7569303	Cg white-ashy, hard xstalline ?spodumene float at base of monzogranite scarp "Bloodwood" blazed tree
CR124	701634	7569298	Narrow 1-2m wide E/W trending pegmatite dyke on rock face of pink monzogranite
CR125	701592	7569332	Massive xstalline pegmatite face ~10m wide with xstals up to 30cm diam; sheeted o/c "layered pegmatite sill complex" Bloodwood
CR126	701487	7568731	Pegmatitic granite o/c at base of western slopes
CR127	701495	7568656	Along western scarp-irregular zones of pegmatitic monzogranite
CR128	701796	7568298	Orthoclase rich (anhedral xstals up to 20cm diam) in pegmatitic monzogranite;close to basal Fortescue Group unconformity
CR129	701934	7568305	O/c irregular zones of cg (10-15cm) anhedral orthoclase rich pegmatite
CR130	702456	7568846	White xstalline Pedra Cinza (ashy coloured orthoclase-qz) dyke in banded monzogranite gneiss; 074/254 strike
CR131	702456	7568839	Cg xstalline (10-30cm diam) orthoclase anhedra in pegmatite dyke S side
CR132	702137	7568230	Massive bluffs of monzogranite with aplitic qz-feldspar o/c
CR133	702150	7568086	Pemattitic monzogranite with orbicular textured intrusion boulders
CR134	702237	7568026	Mg (5-10cm) anhedral xstalline orthoclase-mushy textured qz-monzonite
CR135	702303	7567893	Narrow irregular pegmatite dykes at 090/270 strike

CR136	702906	7568571	Large granite dome with narrow zones of banded "ribbon rock" orthoclase-qz rich pegmatite
CR137	703589	7569877	Cg pale cream albite/orthoclase xstalline pegmatite o/c on monzogranite
CR138	703609	7569863	White xstalline pegmatite float on granite dome; pegmatite sheets ~1m thick
CR139	704204	7568676	Albite rich (pink K-spar) xstalline pegmatite o/c; zoned gneissic banding at 090/270 cut by pegmatite dyke at 054/234 (0.75m thick)
CR141	704236	7568635	Orthoclase/albite rich pegmatite float on large monzogranite dome
CR142	704258	7568630	K-spar qz biotite greisen on large sheeted monzogranite dome
CR143	704253	7568624	Irregular K-spar rich qz pegmatite sills & dykes <1m thick in monzogranite dome; gneissic banding at 144/324
CR144	704420	7568534	Mg feldspar-qz pegmatitic monzogranite o/c
CR145	704377	7568446	Irregular K-spar rich qz pegmatite sills & dykes <1m thick in monzogranite dome
CR146	704381	7568443	50cm wide pegmatite parallel to gneissic banding at 090/270
CR147	704154	7567790	Pegmatitic monzogranite subcrop with irregular feldspar masses
CR148	704124	7567734	Weakly pegmatitic zones in monzogranite sheeted dome
CR149	703661	7567861	Irregular orthoclase/albite-qz pegmatite zones in creek bed on big spinifex plain
CR150	703403	7568768	On perched gravel plain: limited o/c of pegmatitic monzogranite
CR151	703049	7567476	Irregular ?spodumene (cg xstals to 12cm diam)-ash grey colour, hard monoclinic xstals; pegmatite on spinifex plain
CR152	702748	7567341	Cg (10-15cm) xstalline orthoclase -qz pegmatite o/c
CR153	702481	7567243	Irregular zones of cg orthoclase-qz pegmatite o/c above alluvial fan off W ridge
CR154	702259	7567191	Narrow (30cm) orthoclase/?spodumene xstalline in pegmatite dyke on large monzogranite sheet at western gorge; banding/gneiss & veins at 108/288
CR155	702444	7566621	Narrow (1m) dykes of orthoclase-qz pegmatite in barren monzogranite o/c
CR156	702652	7566587	Very narrow (20cm) pegmatite dyke (E/W) on flat monzogranite pavement
CR157	704054	7566421	Near big trib on the Yule R. narrow (50cm) pegmatite dykes in monzogranite
CR158	705121	7566298	West of amphibolite o/c: orthoclase xstals to 20cm diam in pegmatite dyke in sheeted/sheared (310/030) monzogranite
CR159	705353	7566462	Narrow (30cm) N/S pegmatite dyke in sheared monzogranite
CR161	705439	7566521	Vcg ?spodumene (ash grey, hard xstalline) in orthoclase-qz pegmatite sheet
CR162	705441	7566525	Pegmatite dyke with vcg xstals on strongly foliated (040/220) sheared with dip to NW; big structure through here
CR163	705474	7566733	Big shear zone at 050/230 dip to NW; cg irregular masses of xstalline orthoclase-qz pegmatite
CR164	706062	7566612	Subcrop of cg pegmatite zones (irregular) in barren monzogranite pediment; SW of large qz vein ridge "Billy Hill" at 228/048 steep dip to 318-big structure "The Billy Shear"
CR165	706068	7566207	Cg orthoclase-qz pegmatite dykes in monzogranite dome S of Billy Hill; numerous sheared amphibolite o/c hereabouts
CR166	706207	7566167	Close to basal Fortescue Group conglomerate; irregular zones anastomosing on small cliff face; cg orthoclase to 12cm
CR167	701613	7570848	Old fence line: in creek bed, irregular pegmatitic monzogranite (TMG: Tambourah Monzogranite)

CR168	701399	7571041	New big quartz ridge (polyphase siliceous breccia & stockwork); cg xstalline orthoclase qz graphic text pegmatite o/c in gully; strongly sheared TMG at 348/168 dip to 258 at -60
CR169	701693	7569336	Bloodwood: grey ashy colouroured hard xstalline orthoclase/spodumene in 10-15cm diam masses, pegmatite o/c
CR170	701692	7569325	Bloodwood: grey ashy colouroured hard xstalline orthoclase/spodumene in 10-15cm diam masses-scattered o/c of cg pegmatite
CR171	701655	7569300	repeat of CR 123: vcg orthoclase xstalline (20cm diam) pegmatite subcrop
CR172	701656	7569308	repeat of CR 123: vcg orthoclase xstalline (20cm diam), vcg pegmatite subcrop
CR173	701650	7569316	Mg pegmatitic TGM with orthoclase-qz-biot as subcrop; pegmatite pavement in creek bed cut by 110/290 microgranite dykes 1m wide
CR174	701631	7569364	Massive sill o/c >2m thick of vcg (30cm) orthoclase-qz-biot xstalline pegmatite in gully
CR175	706347	7562451	Cg ashy coloured hard long xstalline ?spodumene /orthoclase-qz pegmatite o/c just S of basal Fortescue Group (FG) unconformity
CR176	704860	7563098	Big gneiss/migmatite pavement with banded amphibolite sheared out on 310/150 strike; narrow pegmatite sills at 310/150 dip -60 to 240
CR177	704854	7563155	Narrow pegmatite dyke in migmatitic granite gneiss at 000/180; migmatite banding at 320/140
CR178	704776	7563751	Extensive calcrete pediment (up to 2m thick) limited o/c of TMG with narrow (10cm) pegmatite dykes & sills
CR179	704499	7564007	Dark grey fg accretionary/nodular text limestone in cliff face NW dip at -30: basal FG
CR181	704560	7564054	Marly calc "dirty" shale bed with nodular text, on hill side above gorge; part of FG
CR182	704635	7563987	Gorge Hill: thunder eggs in limey shale with fg sorted qz gravel horizon on hill top
CR183	704711	7563983	1m wide cg orthoclase-qz pegmatite dyke o/c in creek bed below thick ~2m calcrete layer
CR184	704848	7564068	Bedded calc-silicate rich amphibolite (long, needly, pale green xstals) rock o/c
CR185	704880	7564560	Barren granite plain-domes of equigranular TMG with weak 10-20cm wide pegmatite dykes
CR186	704775	7564438	Irregular dykes & sills (<1m wide) in mg TMG with cg orthoclase to 15cm on broad granite sheet
CR187	704790	7564285	Narrow (30cm) ashy coloured hard xstalline orthoclase/?spodumene pegmatite dyke on 080/260 strike
CR188	704779	7564257	Jagged Bluffs: massive bedded, karst weathered biotitic calc-silicate rock/amphibolite on 016/196 strike, dip to W
CR189	704484	7564790	Narrow (20cm) orthoclase rich pegmatite dyke in mg TMG
CR190	704209	7565599	The Gap: black unsorted calcarous dolomitic breccia beds in basal FG
CR191	705015	7565116	Broad valley just below basal FG: pegmatitic orthoclase-qz-biot TMG o/c
CR192	705364	7565110	Into the NE corner-irregular narrow (1m) peg dykes in TMG close to basal FG contact; rafts of calc silicate amphibolite at 705337 7565166
CR193	704255	7562760	Basal FG contact: unsorted angular clast polyolithic bedded conglomerate o/c at -10deg dip to SW
CR194	704284	7562760	On the unconformity surface: weathered TMG pegmatitic, sheared N/S with narrow veins to 10cm width
CR195	704297	7562677	Billy Ck zone: cg orthoclase-qz graphic text pegmatite in TMG microgranite 30m below basal FG contact
CR196	704215	7562591	Billy Ck zone: pegmatite sill o/c with cg orthoclase-qz xstalline to 30cm diam



CR197	704201	7562592	Billy Ck zone: 15m west of 196; vcg (xstals up to 1m) orthoclase-qz-?spodumene pegmatite o/c in sill with HW of microgranite
CR198	704192	7562591	Billy Ck zone: cg orthoclase-qz graphic text pegmatite o/c with sheared amphibolite rafts at 320/140 trend
CR199	704163	7562588	Continuation of cg orthoclase-qz xstalline (20cm diam) pegmatite west of amphibolite raft at 320/140
CR201	703946	7562062	Billy Ck zone: mg (5-10cm) orthoclase-qz xstalline pegmatite suncrop 50m below basal FG contact
CR202	704009	7562029	Billy Ck zone: scattered subcrop of cg orthoclase-qz pegmatite on pediment of FG gravels
CR203	704012	7561971	Billy Ck zone: vcg (30-40cm diam) orthoclase-qz graphic text pegmatite in mg TMG; about 30m below basal FG contact
CR204	704178	7561788	Billy Ck zone: vcg (30-40cm diam) orthoclase-qz graphic text pegmatite subcrop about 15m below basal FG contact
CR205	704165	7561606	Pavement of cg orthoclase-qz graphic text pegmatite o/c 20m below basal FG
CR206	704132	7561527	Billy Ck zone: vcg xstalline orthoclase-qz pegmatite pavement o/c
CR207	704223	7561247	Billy Ck zone: vcg xstalline (20-30cm diam) ash coloured "Pedra Cinza" hard xstalline o/c
CR208	704229	7561239	Cg orthoclase-qz graphic text pegmatite o/c on spinifex plain 50m below basal FG
CR209	704305	7561137	As above; about 50m below basal FG conglomerate/shale/dolomite stratigraphy
CR210	704445	7561143	Scattered o/c of cg orthoclase-qz rich (5-10cm xstal size) pegmatite about 60m below basal FG; zone open to the south
CR211	723512	7557497	Pegmatite subcrop-orthoclase xstals up to 10cm diam; sheared N/S adj to amphibolite
CR212	722903	7557550	Partly pegmatitic aplitic TMG with orthoclase anhedral to 10cm-o/c on low ridge in big spinifex plain adj to old fence line
CR213	722631	7557674	NW dipping magnetite BIF o/c on spinifex plain
CR214	721292	7557111	Massive o/c of TMG with narrow (10-30cm wide) anastomosing dykes & sills of pegmatite
CR215	720915	7557023	Dark grey-red cg polymictic unsorted conglomerate/breccia with granite clasts to 50cm size; FG basal debris/conglomerate at 340/160 strike
CR216	720646	7557030	O/c basal FG: finely bedded & laminated grey fg dolomitic shale with well preserved ripple marks; dip -8 deg to 185
CR217	721469	7556423	Boulders of CID-accretionary textured hematite-goethite rock on NW buttress of Hill 443
CR218	721462	7556397	Pegmatite o/c just below paleo-surface/FG unconformity
CR219	724056	7557312	Scattered pegmatite subcrop on stoney spinifex plain
CR221	723699	7557575	Qz greisen o/c on stoney plain
CR222	722591	7558867	Narrow 10-20cm wide pegmatite dykes & sills in sheared TMG on rocky plain
CR223	722334	7558646	Pegmatitic TMG o/c in NE/SW shear zone
CR224	710177	7567021	Burnt Ridge: cg (5-10cm) orthoclase-qz pegmatite o/c
CR225	710118	7567005	Burnt Ridge: cg (10-15cm) anhedral K-spar-qz+/-biot pegmatite o/c
CR226	710135	7567042	Burnt Ridge: very hard, heavy cg xstalline orthoclase-qz graphic text pegmatite
CR227	704530	7561043	Cg orthoclase-qz graphic text pegmatite o/c
CR228	704478	7560933	Vcg white/cream-ash coloured orthoclase xstal (10-15cm) pegmatite o/c in steep gully
CR229	704480	7560823	Boulder of dark bn-grey dolomitic shale/chert off basal FG contact

CR230	704456	7560874	Vcg calcretised orthoclase-qz pegmatite o/c with strong N/S fabric; dip 45deg to W
CR231	704465	7560858	Orthoclase-qz pegmatite o/c
CR232	704532	7560709	Masses of cg anhedral orthoclase-qz mushy textured pegmatite cut by 10cm wide qz veins
CR233	704541	7560589	White sugary text aplitic pegmatite with cg orthoclase & fg dissem biot; vfg silvery metallic sulphide?
CR234	704533	7560514	Grey mg porphyritic & pegmatitic granite bx o/c in gully
CR235	704701	7560478	Irregular orthoclase xstalline pegmatite subcrop 40m below basal FG black dolomite beds
CR236	704959	7560521	Irregular pegmatitic qz granite o/c on side of prominent bluff 30m below basal FG
CR237	705098	7560830	NW/SE sheared pegmatitic TMG o/c
CR238	704496	7560860	Silicified garnet-qz-biotite polymictic conglomerate
CR239	707532	7562524	Cg orthoclase ash coloured Pedra Cinza pegmatite o/c
CR241	707727	7562090	Qz float & scattered subcrop of orthoclase rich pegmatite o/c on spinifex ridge
CR242	707776	7561961	Subcrop of orthoclase-qz pegmatitic TMG with scattered amphibolite float & E/W granite dykes
CR243	707755	7561842	Cg (10-15cm) euhedral orthoclase-qz graphic text pegmatite with as coloured xstals on low spinifex ridge
CR244	707899	7561404	Vcg graphic text ortho-qz xstalline pegmatite o/c in the head of a trib running S into basal FG
CR245	707877	7561366	Vcg ortho-qz-biot pegmatite o/c with xstals up to 20cm diam
CR246	707862	7561337	Further up ridge: vcg ortho-qz pegmatite with blueish-grey colour
CR247	707817	7561339	Cg pegmatite o/c on steep slope
CR248	707805	7561340	Up steep rubble slope into o/c of vcg (30-40cm diam) ortho-qz-biot pegmatite
CR249	707680	7561885	Cg ortho-qz xstalline pegmatite
CR250	707453	7561546	On base of slope 100m below basal FG: cg ortho-qz-biot pegmatitic subcrop
CR251	707341	7561526	Cg (15-20cm) ortho-qz-graphic text pegmatite o/c
CR252	707284	7561504	Weathered cg ortho-qz-biot pegmatite o/c on ridge
CR253	707023	7561445	Cg ortho-qz pegmatite o/c
CR254	706966	7561219	Vcg white-ash coloured ortho-qz pegmatite o/c as series of east dipping sills
CR255	706872	7561270	Further west around canyon: cg ortho-qz graphic text pegmatite subcrop
CR256	706863	7561214	Cg white-ashy coloured ortho-qz pegmatite subcrop
CR257	706708	7561164	Cg pegmatitic granite
CR258	706709	7561155	Cg (10-15cm) ortho-qz graphic text pegmatite subcrop
CR259	706667	7561236	Cg (10-15cm) graphic text orthoclase-qz subcrop on ridge