ABN 46 006 045 790

#### ASX ANNOUNCEMENT

www.cullenresources.com.au

8 FEBRUARY 2019

**ASX Symbol: CUL** 

# NEW GOLD ANOMALIES FROM AIR CORE DRILLING AT Mt EUREKA, NE GOLDFIELDS, W.A.

Assay data has now been received and compiled for a reconnaissance air core drilling program completed in November 2018. Targets included both new and known, outlined from a compilation of: aeromagnetic and ground magnetics interpretation; previous drilling; soil geochemistry; and mapping. Drilling comprised 76 holes for 3,009m at: **Eureka NW; Southern-Galway; Graf's Find** (gold) and **Irwin Bore** (nickel) prospect (Fig.1).

# **HIGHLIGHTS**

- Gold anomalies were returned from each of the four target areas tested best 15m @ 0.55 g/t Au and 5m @ 1.16g/t Au at Southern; and 5m @ 0.92 g/t Au at Eureka NW (5m composite samples)
- The results from Southern suggest some NW-SE structural control to gold mineralisation and follow-up deeper RC drill testing is warranted
- Results are consistent with recognition that the western granite-greenstone contact and associated structures, including Eureka NW, Southern Galway and Graf's Find prospects, is a key target region along ~10km of prospective strike

## Eureka NW

Two traverses were completed spaced 50m along strike to the south of an historical intersection of 8m @ 2.9g/t Au from 70m (MERC055), and targeted the granite-greenstone contact which is locally marked with conglomerates (Fig. 2). Gold anomalies which include 10m @ 0.27 g/t Au and 5m @ 0.92 g/t Au, indicate an extension to the south of gold mineralisation in historical hole MERC055. Deeper drill testing along the granite-greenstone contact is warranted. Gold mineralisation is related to quartz veining and shearing in mafics and ultramafics with basement granite in some holes. The area south of MERC055 to YRC07, and the alteration zones interpreted in this corridor (which may relate to underlying intrusives) are a key target region (Fig.2).

# Southern – Galway

Aircore traverses targeted:

- an untested NE-SW fault and interpreted felsic intrusive to the south-east of Southern;
- a possible southern extension of the Galway mineralisation localised by an interpreted felsic intrusive and its bounding faults/shears; and,
- possible NW controlling faults at Southern (Fig. 3).

Gold intersections in drill holes MEAC18072 - 76 at **Southern** include **15m** @ **0.55** g/t Au and **5m** @ **1.16**g/t Au. Mineralisation is interpreted to have a NE dip (~60°) along an interpreted NW - SE fault. The down-dip portion of this section (below ~60m vertically) also correlates with mineralised intervals in historical holes drilled both to the NW and vertically. **RC** drilling to test the deeper sections of NW-SE fault/shear zones, which may control mineralisation, is now a priority (Fig.4).

Drilling at **Southern SE** intersected a felsic intrusive in a structure between ultramafic and mafic rocks (from ground magnetics data). No gold anomalies were returned in the area of the fault, although arsenic is anomalous (312ppm over 5m to EoH in MEAC 18071).

Drillholes MEAC18011-26 to the SW of Southern and Galway (Galway S.) intersected a broad felsic intrusive but did not return any gold anomalies.

## **Graf's Find**

Two traverses investigated an interpreted felsic intrusive along its western fault bounded contact and NW-SE faults in the vicinity of a "Terraleach TM" gold - insoil anomaly (as previously reported) - Fig.5. A single modest gold anomaly was returned from a chert (MEAC18038 - 1m @ 0.12 g/t Au from 35m to end of hole). This corridor is underexplored to the north and some further drilling focused on the chert is warranted (Fig.5).

#### **Irwin Bore**

Three traverse lines of drilling targeted stratigraphy along strike of VTEM conductors in nickel prospective terrain, where access allowed (Fig.6). Bedrock in holes MEAC18045-55 was dominantly mafic with a modest gold anomaly in MEAC 18047 (**3m** @ **0.22** g/t Au to end of hole) in chert. Holes MEAC18056-59 were drilled on the eastern granite-greenstone contact and returned 5m @ 0.15 g/t Au in a quartz-veined section of granite. No ultramafics were intersected and there were no significant nickel assays.

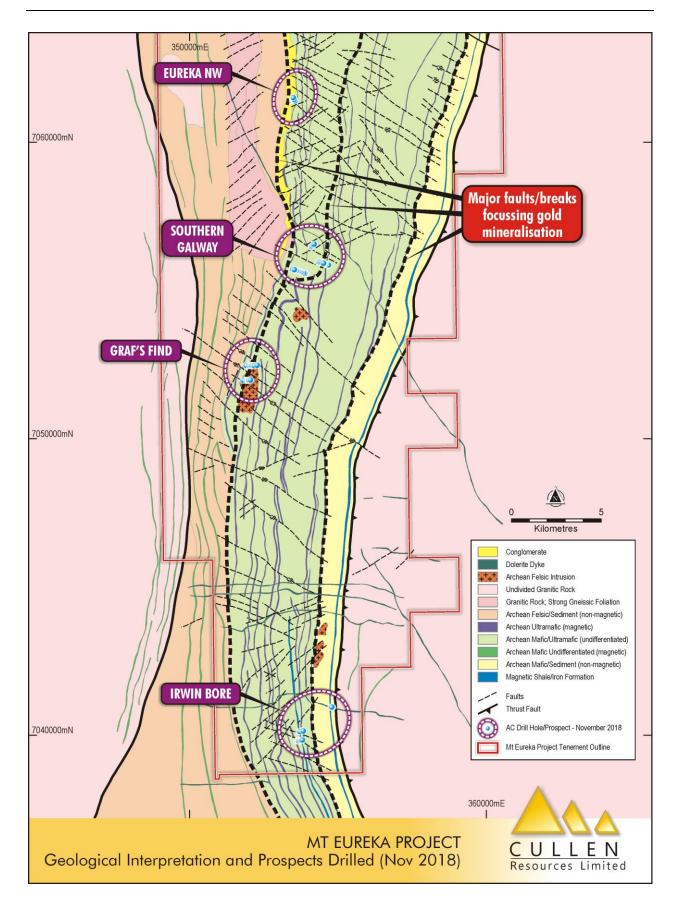


Figure 1.

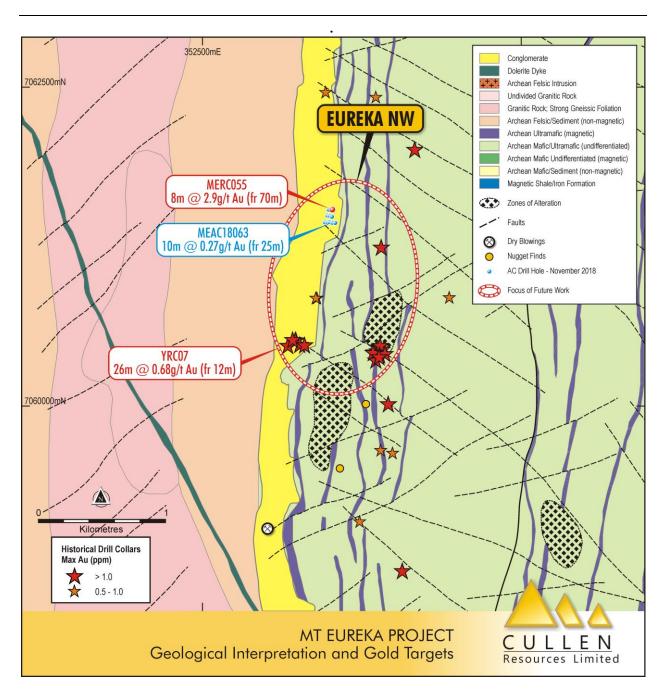


Figure 2. Drilling completed at Eureka NW, November 2018

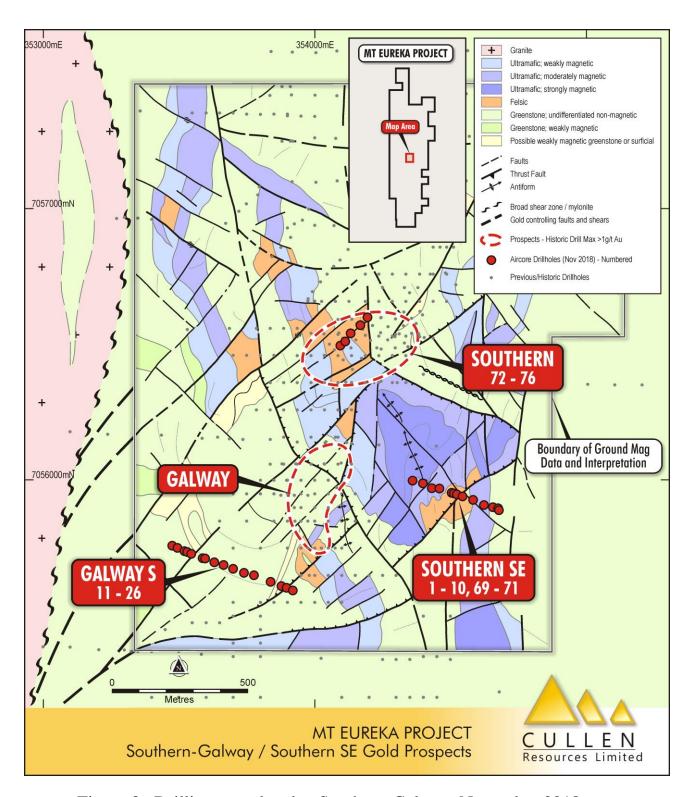


Figure 3. Drilling completed at Southern-Galway, November 2018.

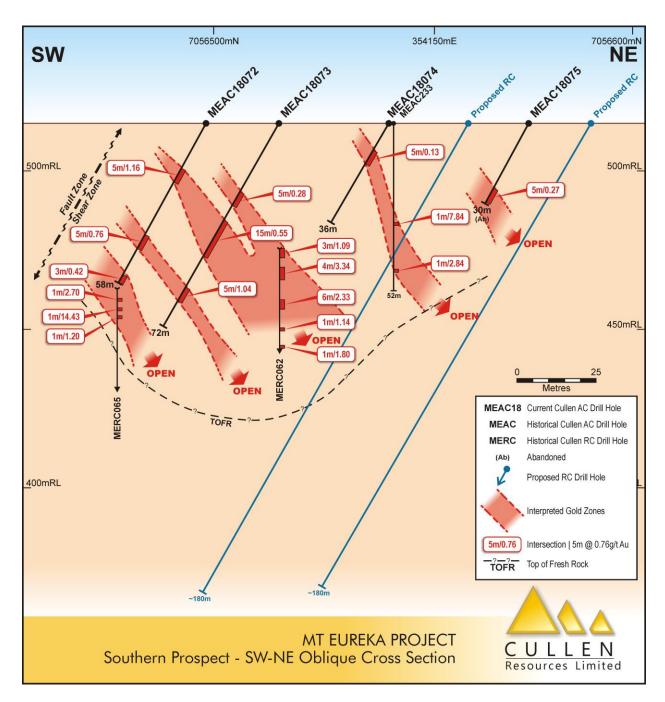
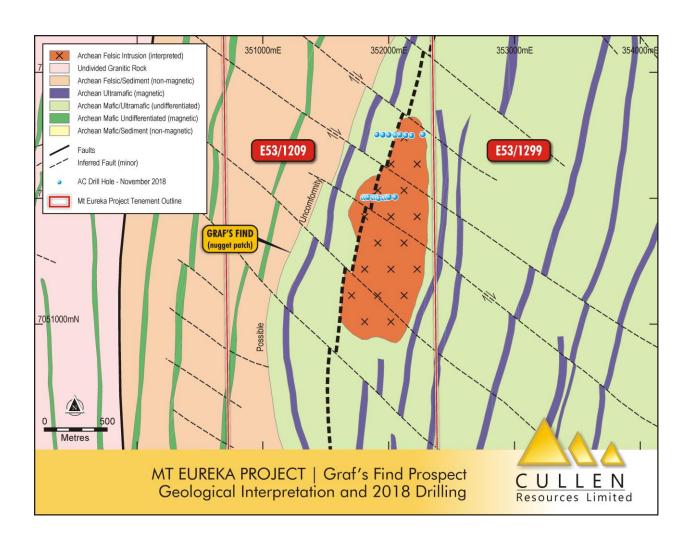


Figure.4 Oblique x-section – with proposed RC drill holes



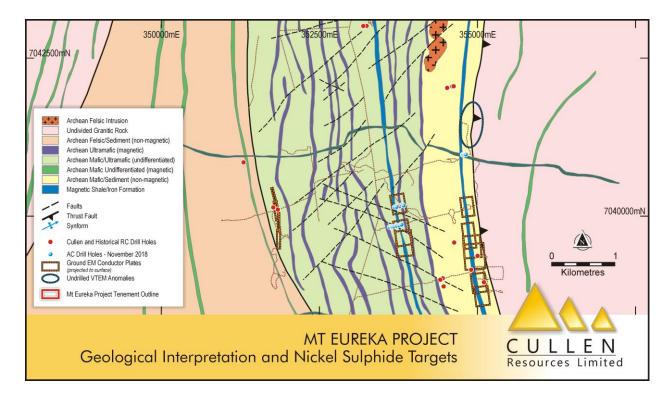


Fig 5 top - Graf's Find; and Fig. 6 - Irwin Bore (E53/1637)

TABLE 1: Air core drill holes completed Nov. 2018, with gold intersections ( > 0.1 g/t Au over 1-5m)

| Hole ID                  | Easting (m) | Northing (m) | Depth (m) | Dip<br>(deg.) | Azimuth (degrees) | From (m) | To (m) | Thickness<br>(m) | Au g/t |
|--------------------------|-------------|--------------|-----------|---------------|-------------------|----------|--------|------------------|--------|
| Southern SE<br>MEAC18006 | 354675      | 7055895      | 51        | -60           | 285               | 45       | 50     | 5                | 0.198  |
| Graf's Find<br>MEAC18038 | 351953      | 7052504      | 36        | -60           | 270               | 35       | 36     | 1 (EoH)          | 0.123  |
| Irwin Bore<br>MEAC18047  | 353654      | 7039835      | 48        | -60           | 260               | 45       | 48     | 3 (EoH)          | 0.22   |
| MEAC18056                | 354812      | 7040975      | 60        | -60           | 270               | 40       | 45     | 5                | 0.155  |
| Eureka NW<br>MEAC18062   | 353497      | 7061442      | 57        | -60           | 270               | 50       | 55     | 5                | 0.324  |
| MEAC18063                | 353520      | 7061438      | 52        | -60           | 270               | 20       | 25     | 5                | 0.117  |
|                          |             |              |           |               |                   | 25       | 35     | 10               | 0.272  |
| MEAC18065                | 353480      | 7061495      | 54        | -60           | 270               | 5        | 10     | 5                | 0.92   |
| MEAC18066                | 353499      | 7061492      | 50        | -60           | 270               | 30       | 35     | 5                | 0.60   |
| Southern<br>MEAC18072    | 354094      | 7056495      | 58        | -60           | 225               | 15       | 20     | 5                | 1.16   |
|                          |             |              |           |               |                   | 40       | 45     | 5                | 0.76   |
|                          |             |              |           |               |                   | 55       | 58     | 3 (EoH)          | 0.423  |
| MEAC18073                | 354112      | 7056510      | 72        | -60           | 225               | 25       | 30     | 5                | 0.28   |
|                          |             |              |           |               |                   | 35       | 50     | 15               | 0.55   |
|                          |             |              |           |               |                   | 60       | 65     | 5                | 1.04   |
| MEAC18074                | 354132      | 7056540      | 36        | -60           | 225               | 10       | 15     | 5                | 0.13   |
| MEAC18075                | 354168      | 7056570      | 30        | -60           | 225               | 25       | 30     | 5 (EoH)          | 0.267  |

<sup>1.</sup> Easting and Northing – GDA94 Zone 51

- 4. Average value calculated as arithmetic average, rounded up or down
- 5. Downhole lengths of mineralisation are reported here, EoH = End of hole

<sup>2.</sup> Au assays from 5m composite samples, ICP-MS from Aqua Regis digest (partial) 25g charge, no upper cut applied, 5m maximum internal dilution. Detection Limit for gold = 1ppb,

<sup>3.</sup> No significant result in holes not listed in Table 1 above – see Table 2 for listing of all holes.

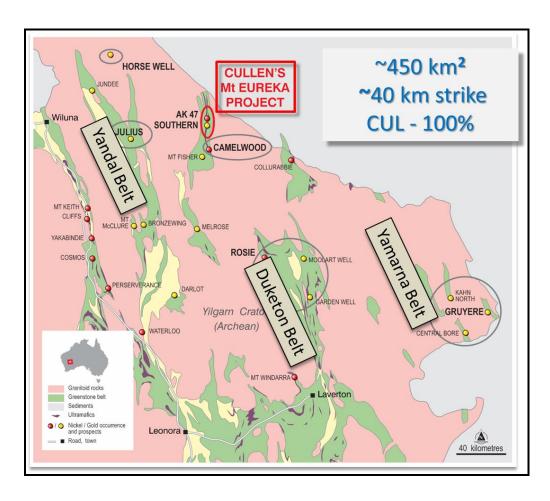
TABLE 2: List of angled (- $60^{\circ}$ ) air core holes completed – E's 53/1299, 1209, 1637.

|                        |                         |                           |                 | F                              |
|------------------------|-------------------------|---------------------------|-----------------|--------------------------------|
| HOLE ID                | EAST                    | NORTH                     | Depth           | Azimuth                        |
| MEAC18001              | 354360                  | 7055997                   | 45              | 285                            |
| MEAC18002              | 354398                  | 7055987                   | 45              | 285                            |
| MEAC18003              | 354623                  | 7055907                   | 27              | 285                            |
| MEAC18004<br>MEAC18005 | 354656<br>354698        | 7055899                   | 57<br>57        | 285<br>285                     |
| MEAC18005<br>MEAC18006 | 354675                  | 7055888<br><b>7055895</b> | 51<br>51        | 285 Southern SE Prospect       |
| MEAC18007              | 354583                  | 7055926                   | 15              | 285                            |
| MEAC18008              | 354544                  | 7055939                   | 25              | 285                            |
| MEAC18009              | 354523                  | 7055946                   | 19              | 285                            |
| MEAC18010              | 354504                  | 7055952                   | 30              | 285                            |
| MEAC18011              | 353919                  | 7055592                   | 54              | 105                            |
| MEAC18012              | 353896                  | 7055602                   | 20              | 105                            |
| MEAC18013<br>MEAC18014 | 353877                  | 7055608                   | 3               | 105                            |
| MEAC18014<br>MEAC18015 | 353837<br>353776        | 7055624<br>7055648        | 1<br>45         | 105<br>105                     |
| MEAC18016              | 353770                  | 7055657                   | 14              | 105                            |
| MEAC18017              | 353699                  | 7055672                   | 44              | 105                            |
| MEAC18018              | 353664                  | 7055686                   | 7               | 105                            |
| MEAC18019              | 353630                  | 7055696                   | 42              | 105                            |
| MEAC18020              | 353596                  | 7055710                   | 9               | 105                            |
| MEAC18021              | 353587                  | 7055711                   | 24              | 105                            |
| MEAC18022<br>MEAC18023 | 353545<br>353520        | 7055727<br>7055737        | 17<br>51        | 105<br>105                     |
| MEAC18023<br>MEAC18024 | 353320                  | 7055749                   | 41              | 105                            |
| MEAC18025              | 353475                  | 7055757                   | 33              | 105                            |
| MEAC18026              | 353530                  | 7055734                   | 45              | 105                            |
| MEAC18027              | 351900                  | 7052005                   | 35              | 270                            |
| MEAC18028              | 351876                  | 7052006                   | 28              | 270                            |
| MEAC18029              | 351836                  | 7052008                   | 40              | 270                            |
| MEAC18030              | 351817                  | 7052005                   | 36              | 270                            |
| MEAC18031<br>MEAC18032 | 351797<br>351919        | 7052006<br>7052000        | 60<br>33        | 270<br>270                     |
| MEAC18032<br>MEAC18033 | 351919                  | 7052004                   | 33              | 270                            |
| MEAC18034              | 351982                  | 7052006                   | 42              | 270                            |
| MEAC18035              | 352001                  | 7052008                   | 33              | 270                            |
| MEAC18036              | 352050                  | 7052009                   | 24              | 270                            |
| MEAC18037              | 351905                  | 7052506                   | 15              | 270                            |
| MEAC18038              | 351953                  | 7052504                   | 36              | 270 Graf's Find Prospect       |
| MEAC18039<br>MEAC18040 | 351999<br>352051        | 7052503<br>7052502        | 63<br>54        | 270<br>270                     |
| MEAC18041              | 352031                  | 7052504                   | 54              | 270                            |
| MEAC18042              | 352135                  | 7052500                   | 57              | 270                            |
| MEAC18043              | 352180                  | 7052498                   | 48              | 270                            |
| MEAC18044              | 352271                  | 7052506                   | 35              | 270                            |
| MEAC18045              | 353605                  | 7039829                   | 16              | 260                            |
| MEAC18046<br>MEAC18047 | 353641<br><b>353654</b> | 7039835<br><b>7039835</b> | 56<br><b>48</b> | 260<br><b>260 Irwin Bore</b>   |
| MEAC18047<br>MEAC18048 | 353678                  | 7039837                   | 6               | 260 H WIII BOTE<br>260         |
| MEAC18049              | 353720                  | 7039850                   | 60              | 260                            |
| MEAC18050              | 353763                  | 7039858                   | 60              | 260                            |
| MEAC18051              | 353796                  | 7039866                   | 54              | 260                            |
| MEAC18052              | 353687                  | 7040144                   | 45              | 260                            |
| MEAC18053              | 353718                  | 7040147                   | 48              | 260                            |
| MEAC18054<br>MEAC18055 | 353801<br>353829        | 7040178<br>7040168        | 48<br>45        | 260<br>260                     |
| MEAC18056              | 354812                  | 7040108<br>7040975        | 60              | 270 Irwin Bore                 |
| MEAC18057              | 354774                  | 7040973                   | 22              | 270 H WIN BOTC<br>270          |
| MEAC18058              | 354761                  | 7040971                   | 6               | 270                            |
| MEAC18059              | 354793                  | 7040977                   | 43              | 270                            |
| MEAC18060              | 353481                  | 7061440                   | 62              | 270                            |
| MEAC18061              | 353460                  | 7061441                   | 45<br>57        | 270 F NYV                      |
| MEAC18062<br>MEAC18063 | 353497<br>353520        | 7061442<br>7061438        | 57<br>52        | 270 Eureka NW<br>270 Eureka NW |
| MEAC18064              | 353543                  | 7061436                   | 50              | 270 Eureka NVV<br>270          |
| MEAC18065              | 353480                  | 7061495                   | 54              | 270 Eureka NW                  |
| MEAC18066              | 353499                  | 7061492                   | 50              | 270 Eureka NW                  |
| MEAC18067              | 353517                  | 7061484                   | 50              | 270                            |
| MEAC18068              | 353491                  | 7061540                   | 56              | 270                            |
| MEAC18069              | 354431                  | 7055969                   | 48              | 285                            |
| MEAC18070<br>MEAC18071 | 354459<br>354512        | 7055968<br>7055950        | 48<br>60        | 285<br>285                     |
| MEAC18071<br>MEAC18072 | 354094                  | <b>7056495</b>            | 58              | 225 Southern                   |
| MEAC18072<br>MEAC18073 | 354112                  | 7056510                   | 72              | 225 Southern                   |
| MEAC18074              | 354132                  | 7056540                   | 36              | 225                            |
| MEAC18075              | 354168                  | 7056570                   | 30              | 225 Southern                   |
| MEAC18076              | 354194                  | 7056599                   | 13              | 225                            |
|                        |                         |                           |                 |                                |

9

#### **KEY POINTS**

- 1. The results of the November 2018 air core programme underline the potential of the western granite-greenstone contact region (Graf's Find to Eureka NW Fig. 1) to host gold deposits, and further exploration for gold is warranted.
- 2. The vast majority of historical exploration drilling within this region has been broad-spaced and shallow (<80m), and only the potentially-economic gold mineralisation at the Southern Galway has been the subject of semi-systematic RC drilling (~20 holes) and only two diamond holes. Further RC drilling is warranted at Southern Galway guided by NW-SE faults which may control gold zones.
- 3. In addition, the eastern granite-greenstone contact and its major structural break (Fig.1) remains underexplored for gold, and is considered by Cullen to be prospective for nickel sulphides given its on-strike position north of the Camelwood discovery and associated nickel sulphide deposits being explored by Rox Resources Limited (ASX:RXL)



Location of Mt Eureka Project, NE Goldfields, W.A

#### **ATTRIBUTION:** Competent Person Statement

The information in this report that relates to exploration activities is based on information compiled by Dr. Chris Ringrose, Managing Director, Cullen Resources Limited who is a Member of the Australasian Institute of Mining and Metallurgy. Dr. Ringrose is a full-time employee of Cullen Resources Limited. He has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration, and to the activity which has been undertaken, to qualify as a Competent Person as defined by the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr. Ringrose consents to the report being issued in the form and context in which it appears.

Information in this report may also reflect past exploration results, and Cullen's assessment of exploration completed by past explorers, which has not been updated to comply with the JORC 2012 Code. The Company confirms it is not aware of any new information or data which materially affects the information included in this announcement.

**ABOUT CULLEN:** Cullen is a Perth-based minerals explorer with a multi-commodity portfolio including projects managed through a number of JVs with key partners (Fortescue and Liontown), and a number of projects in its own right. The Company's strategy is to identify and build targets based on data compilation, field reconnaissance and early-stage exploration, and to pursue further testing of targets itself or farm-out opportunities to larger companies. Projects are sought for most commodities mainly in Australia but with selected consideration of overseas opportunities. Cullen has a **1.5% F.O.B. royalty** up to 15 Mt of iron ore production from the Wyloo project tenements, part of Fortescue's proposed Western Hub/Eliwana project, and will receive \$900,000 cash if and when a decision is made to commence mining on a commercial basis – E47/1649, 1650, ML 47/1488-1490, and ML 08/502. Cullen has a **1% F.O.B. royalty** on any iron ore production from the following tenements – E08/1135, E08/1330, E08/1341, E08/1292, ML08/481, and ML08/482 (former Mt Stuart Iron Ore Joint Venture – Baosteel/Aurizon/Posco/AMCI) and will receive \$1M cash upon any Final Investment Decision. The Catho Well Channel Iron Deposit (CID) has a published in situ Mineral Resources estimate of 161Mt @ 54.40% Fe (ML 08/481) as announced by Cullen to the ASX – 10 March 2015.

#### **FORWARD - LOOKING STATEMENTS**

This document may contain certain forward-looking statements which have not been based solely on historical facts but rather on Cullen's expectations about future events and on a number of assumptions which are subject to significant risks, uncertainties and contingencies many of which are outside the control of Cullen and its directors, officers and advisers. Forward-looking statements include, but are not necessarily limited to, statements concerning Cullen's planned exploration program, strategies and objectives of management, anticipated dates and expected costs or outputs. When used in this document, words such as "could", "plan", "estimate" "expect", "intend", "may", "potential", "should" and similar expressions are forward-looking statements. Due care and attention has been taken in the preparation of this document and although Cullen believes that its expectations reflected in any forward looking statements made in this document are reasonable, no assurance can be given that actual results will be consistent with these forward-looking statements. This document should not be relied upon as providing any recommendation or forecast by Cullen or its directors, officers or advisers. To the fullest extent permitted by law, no liability, however arising, will be accepted by Cullen or its directors, officers or advisers, as a result of any reliance upon any forward looking statement contained in this document.

# Data description as required by the 2012 JORC Code - Section 1 and Section 2 of Table 1 Air core drilling programme – E53/1299,1209,1637

|                             | Section 1 Sampling   | g techniques and data   |
|-----------------------------|--|---|
| Criteria                    | JORC Code explanation  | Comments  |
| Sampling technique          | Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.   | Sampling was by air core (AC) drilling testing depth of transported cover, bedrock type and interpreted geological and/or geophysical targets for gold mineralisation and/or nickel sulphides.  A total of 76 holes for 3009m was completed.  |
|                             | Include reference to measures taken to<br>ensure sample representivity and the<br>appropriate calibration of any<br>measurement tools or systems used  | The collar positions were located using handheld GPS units with an approximate accuracy of +/- 5 m. Drill rig cyclone and sampling tools cleaned regularly during drilling.   |
| Drilling<br>technique       | 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 (e.g. 'reverse circulation drilling was used to obtain 1m samples from which 3kg was pulverised to produce a 30g 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.  Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, | Mineralisation determined qualitatively from rock type, alteration, structure and veining observations.  Air core drilling was used to obtain one metre samples delivered through a cyclone. The 1m sample was placed on the ground. From each drill spoil pile, a ~500g sample was then collected using a spear, five of such 1m samples were combined into one 5m composite sample.  The composite samples (2-3kg) were sent to Perth laboratory SGS for analysis.  Drilling was by air core using a 90mm diameter bit. |
| Drill<br>Sample<br>recovery | whether core is oriented and if so, by what method etc.).  Method of recording and assessing core and chip sample recoveries and results assessed  | Sample recovery was assessed visually and adverse recovery recorded. The samples were generally dry, a very few were damp, and showed little (<10%) variation in volume.  |
|                             | Measurements taken to maximise sample recovery and ensure representative nature of the samples.  | The samples were visually checked for recovery, contamination and water content; the results were recorded on log sheets. Cyclone and buckets were cleaned regularly and thoroughly (between rod changes and after completion of each drill hole) to minimise cross contamination.  |
|                             | 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.   | The holes were kept dry and there was no significant loss/gain of material introducing a sample bias. At the end of a few holes, where water flow was high, the hole was terminated.  |

| Logging   | 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 metallurgical studies.  Whether logging is qualitative or quantitative in nature. Core (or costean, channel etc) photography. | All samples were qualitatively logged by a geologist in order to provide a geological framework for the interpretation of the analytical data.  Logging of rock chips was qualitative (lithology, type of mineralisation) and semi-quantitative (visual estimation of sulphide content, quartz veining, alteration etc.).  |
|---|--|--|
|   | The total length and percentage of the relevant intersections logged   | All drill holes were logged in full.   |
| Sub-<br>sampling<br>techniques<br>and sample<br>preparation | If core, whether cut or sawn and whether quarter, half or all core taken.  | Not applicable - no core taken.  |
|   | If non-core, whether riffles, tube sampled, rotary split, etc and whether sampled wet or dry.  | One-metre samples were collected from a cyclone attached to the drill rig. Composite samples were taken using a sampling spear.  |
|   | For all sample types, quality and appropriateness of the sample preparation technique.   | All samples are pulverised to produce a homogenous representative sub-sample for analysis. A grind quality target of 85% passing 75µm is established and is relative to sample size, type and hardness.  |
|   |  | Gold (Au), Arsenic (As), Bismuth (Bi) Copper (Cu), Nickel (Ni), Manganese (Mn), Antimony (Sb), Tin (Sn), and Tellurium (Te) was analyzed by Aqua Regia digest with ICP-MS finish.  |
|   |  | Gold levels over 500ppb were repeated by AAS.  |
|   | Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.  | Duplicates certified reference materials and blanks are inserted by the laboratory and reported in the final assay report.   |
|   | 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.   | Duplicate field samples of the 5m composites were taken approximately every 50 samples.  |
|   | Whether sample sizes are appropriate to the grain size of the material being sampled.  | The sample size is considered appropriate for the purpose of this drilling programme, which is reconnaissance only and primarily aimed at establishing the depth to and type of bedrock beneath cover (which ranged from 2-20m).   |
|   | The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.   | For all 5m composite samples, a 25g aliquot is digested using Aqua Regia. Analysis for gold and a range of other trace elements is by ICP-MS or AAS. The aqua regia digestion is considered partial depending on the host of the elements analyzed, but does provide an acceptable level of accuracy for an initial assessment of the contained target elements. |

|  | 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. | Not applicable, no geophysical parameters reported.   |
|--|---|---|
| Quality of<br>assay data<br>and<br>laboratory<br>tests | Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.                  | International standards, blanks and duplicates are inserted by the laboratory.  |
| Verification<br>of sampling<br>and<br>assaying         | The verification of significant intersections by either independent or alternative company personnel.   | Cullen staff (Managing Director) has visually inspected the samples and sampling procedures.  |
| , U  | The use of twinned holes  | No twinned holes drilled.   |
|  | Documentation of primary data, data entry procedures, data verification, data storage (physically and electronic) protocols.  | All primary geological data are recorded manually on log sheets and transferred into digital format.  |
|  | Discuss any adjustment to assay data.   | No adjustments are made to assay data as presented  |
| Location of data points                                | Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resources estimation.   | All drill collar surveys are by handheld GPS. Several measurements (2-3) at different times are averaged; the estimated error is +/-5 m.  |
|  | Specification of the grid system used.  | The grid are in UTM grid GDA94, Zone 51   |
|  | Quality and adequacy of topographic control.  | There is currently no topographic control and the RL is a nominal 500m for all drill holes.   |
| Data spacing and distribution                          | Data spacing for reporting of Exploration Results.  | The drilling tested geological and geophysical targets, a few kilometers apart. Some of the targets were drilled along a traverse with holes spaced 40-100m apart, and up to 400m along strike. |
|  | Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Reserve and Ore Re4serve estimation procedure(s) and classifications applied.      | The drilling was exploratory and not designed to satisfy requirements for mineral reserve estimations.  |
|  | Whether sample compositing has been applied.  | The drill spoil generated by the air core drilling was composited into 5m intervals.  |

| Orientation  | Wilhouth and the resident street of the stre | The delling is analysis and a 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1   |
|--|--|---|
| of data in<br>relation to<br>geological<br>structure | Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.   | The drilling is exploratory only and designed to test geophysical and geological targets, to assist in mapping, and to test for gold mineralisation below transported cover. The drill orientation was generally westerly or easterly (105 - 285 degrees) utilizing existing grids lines where available, and at a dip angle of -60 degrees. No visible gold mineralisation has been encountered and hence it is unclear whether the sampling is unbiased or not.                   |
|  | 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.   | The exact dip of the structures targeted has not been established yet but it is likely that the drilled intersections overestimate the true thickness of any intersected mineralisation.  |
| Sample security                                      | The measures taken to ensure sample security.  | All samples are handled, transported and delivered to<br>the laboratory by Cullen staff or Cullen contractors. All<br>samples were accounted for.   |
| Audits or reviews                                    | The results of and audits or reviews of sampling techniques and data.  | No audits or reviews of sampling techniques and data have been conducted to date.   |
|  | Section 2 Reporting  | g of exploration results  |
| Mineral<br>tenements and<br>land tenure<br>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 interest, historical sites, wilderness or national park and environmental settings.  | The drill targets are located on E53/1299,1209 and 1637 each is 100% owned by Cullen Exploration Pty Ltd (a wholly-owned subsidiary of Cullen Resources Limited). Cullen has signed an agreement with the Wiluna traditional owners who have determined native title over the tenement area. All drill sites and access tracks were cleared by the traditional owners prior to commencement of theses ground-disturbing activities. There are no particular 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 tenure is secure and in good standing at the time of writing.   |
| Exploration done by other parties                    | Acknowledgement and appraisal of   | There has been previous drilling at the tested sites by Cullen and across the project area by WMC limited, Newmont and BHP Billiton limited (in Joint Venture with Cullen) since 2001 – appraised by Cullen for drill targeting.  |
| Geology  | Deposit type, geological settings and style of mineralisation.   | The targeted mineralisation is orogenic, shear-hosted gold mineralisation and komatiite-hosted nickel.  |
| Drill hole<br>information                            | A summary of all information material for 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  | See included table – nominal 500m RL  |
|  | · Elevation or RL (Reduced level-<br>elevation above sea level in<br>metres)and the drill hole collar  |   |

|   | · Dip and azimuth of the hole   |  |
|---|---|--|
|   | y ag oj 110 11010   |  |
|   | · 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 included table   |
| Data<br>aggregation<br>methods  | In reporting Exploration results, weighing averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually material and should be stated.   | See included table   |
|   | 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.            | See included table   |
|   | The assumptions used for any reporting of metal equivalent values should be clearly stated.   | No metal equivalents used.   |
| Relationship<br>between<br>mineralisation<br>widths and<br>intercept<br>lengths | These relationships are particularly important in the reporting of Exploration Results.   | Drilling was at -60 degree angles to test geophysical targets and prospective geological settings beneath transported cover. The stratigraphy encountered in drilling is variably dipping to the east at a high angle or is near vertical, and any mineralisation intercepts are likely to overstate the true width of mineralisation. |
|   | If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.   | The exact geometry of the mineralisation is not yet known.   |
|   | If it is not known and only the down<br>hole lengths are reported, there<br>should be a clear statement to this<br>effect (eg 'down hole length, true<br>width not known')  | See Table in report  |
| Diagrams  | Appropriate maps and sections (with scales) and tabulations of intercepts would 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. | See included figures   |

|               | T                                      |   |
|---------------|--|---|
| Balanced      | Where comprehensive reporting of       | See included Table                                      |
| reporting     | 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.                               |   |
| Other         | Other exploration data, if meaningful  | See included figures where current reported data shown  |
| substantive   | and material, should be reported       | together with interpretation of previous drill hole     |
| exploration   | including (but not limited to):        | information and historic aeromagnetic and ground        |
| data          | geological observations, geophysical   | magnetic data. There are currently no other exploration |
|               | survey results, geochemical survey     | data that appear meaningful in the context of the       |
|               | results, bulk samples – size and       | reported results.                                       |
|               | method of treatment; metallurgical     | T   |
|               | test results; bulk density,            |   |
|               | groundwater, geotechnical and rock     |   |
|               | characteristics; potential deleterious |   |
|               | or containing substances.              |   |
| Further work  | The nature and scale of planned        | Further work, including air core and RC drilling, is    |
| Turtifer work | further work (eg tests for lateral     | planned.  |
|               |  | pranned.  |
|               | extensions or depth extensions or      |   |
|               | large-scale step-out drilling).        | 0 1 1 1 0   |
|               | Diagrams clearly highlighting the      | See included figures.                                   |
|               | areas of possible extensions,          |   |
|               | including the main geological          |   |
|               | interpretations and future drilling    |   |
|               | areas, providing this information is   |   |
|               | not commercially sensitive.            |   |

**REGISTERED OFFICE**: Unit 4, 7 Hardy Street, South Perth WA 6151. Telephone: +61 8 9474 5511 Facsimile:+61 8 9474 5588

**CONTACT:** Dr. Chris Ringrose, Managing Director. **E-mail**: <u>cullen@cullenresources.com.au</u>

www.cullenresources.com.au