

## Outstanding Shallow Intersection of 84m @ 2.5g/t Au from 25m at Highway Zone

### HIGHLIGHTS

- RC drilling at the Highway Zone has returned several wide gold intersections:
  - **CBRC0055**
    - **84m @ 2.5g/t Au from 25m** (~40m true width) including:
      - 15m @ 4.6g/t Au from 25m and
      - 16m @ 1.9g/t Au from 53m and
      - 30m @ 3.3g/t Au from 79m including:
        - 7m @ 10g/t Au from 89m
    - The hole ended in mineralisation at 109m due to swelling clays restricting drilling
  - Hole CBRC0055 is up dip of recent hole CBRC0056<sup>i</sup>, 40m @ 3.9g/t Au from 170m, that includes three similar intersections of:
    - 5m @ 3.8g/t Au (170m)
    - 13m @ 3.7g/t Au (180m)
    - 11m @ 7.8g/t Au (199m)
  - Holes CBRC0055, CBRC0056 and TCKRC0101<sup>ii</sup> (Figure 2) show strong vertical continuity and confirm the broad width of mineralisation.
  - Shallow RC results in oxide including:
    - **CBRC0117**
      - 44m @ 0.6g/t Au from 32m including
        - 8m @ 1.2g/t Au from 64m
    - **CBRC0054**
      - 2m @ 0.5g/t Au from 10m
      - 2m @ 0.9g/t Au from 55m and
      - 6m @ 1.0g/t Au from 63m
  - Bedrock RC results extending the Highway Zone to the east:
    - **CBRC0057**
      - 2m @ 9.4g/t Au from 156m (update<sup>iii</sup> with 1m samples) and
      - 11m @ 3.7g/t Au from 186m (update<sup>ii</sup> with 1m samples) and
      - 5m @ 1.0g/t Au from 214m (hole extension)

- **CBRC0113** 8m @ 1.0g/t Au from 199m and
  - 8m @ 0.9g/t Au from 215m
- **CBRC0116**
  - 3m @ 2.2g/t Au from 206m
- **CBRC0115**
  - 7m @ 1.0g/t from 189m
- **Three holes have assays pending at the Highway Zone. These are drilled into the southern extension of the structure, south of the intersection with the Cable-Bollard Trend.**
- **The structure remains open to the south and east and is the focus of 2022 RC and RAB drilling**

**Odyssey Gold Limited (ASX:ODY) (“Odyssey” or “Company”)** is pleased to announce progress drill results from Reverse Circulation (“RC”) drilling recently completed at the Highway Zone Target, part of the Tuckanarra Project in the Murchison Goldfields of Western Australia.

**Commenting on this outstanding intersection from the Highway Zone, Managing Director, Matt Briggs said:**

*“Systematically drilling the targets across the Tuckanarra Project continues to yield exceptional results.*

*The Highway Zone was first recognised in RC drilling late in 2021. Drilling through 2022 has extended the mineralisation to 480m from the Bollard Pit. Drilling earlier in the year focussed on intersecting strike extensions to demonstrate the orientation and scale of the structure.*

*The holes announced today are the first holes targeted to intersect the mineralisation in the oxide. Across the Tuckanarra Project the mineralised structures show significant supergene enrichment where thick intersections are created at the base of oxide. This is now being repeated at the Highway Zone.*

*With the widths and thickness of intersections, the Highway Zone is showing strong potential for open pit and underground mining potential.*

*Results are awaited for 3 RC holes at the Highway Zone.*

*Future drilling is planned to target the oxide mineralisation up dip of previous RC and continuing to grow the mineralisation along strike to the east and south. Drilling is planned to recommence at the Highway Zone and Maybelle in the coming weeks.”*

**For further information, please contact:**

**Matt Briggs**

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### Current Drilling Strategy

Odyssey's Tuckanarra Project is part of the prolific Murchison Goldfields (Figure 5). The Murchison Goldfields are host to a +35Moz gold endowment (historic production plus current resources).

Recent drilling by Odyssey has focussed on defining high grade shoots extending below the Bottle Dump, Bollard and Cable Pits, along with extending the system to the north and to the east at the highly prospective Highway Zone structure. Several other advanced targets have also been RC drilled, including Maybelle, Maybelle North, Lucknow, Douglas and Cable North (Figure 4).

### Highway Zone

The Tuckanarra Project area was mined 1993-1995 focusing on higher grade areas of shallow laterite and oxide mineralisation. Although drilling demonstrated multiple zones of gold mineralisation extending below the pits, these were not mined due to the low gold price and limitations of processing at the time. Mining was limited to a maximum of ~30m below surface.

Historic drilling at Tuckanarra was targeted on >10ppb Au soil anomalies. Areas with shallow cover, such as at the Highway Zone, have not been identified or drilled with bedrock RC and diamond drilling.

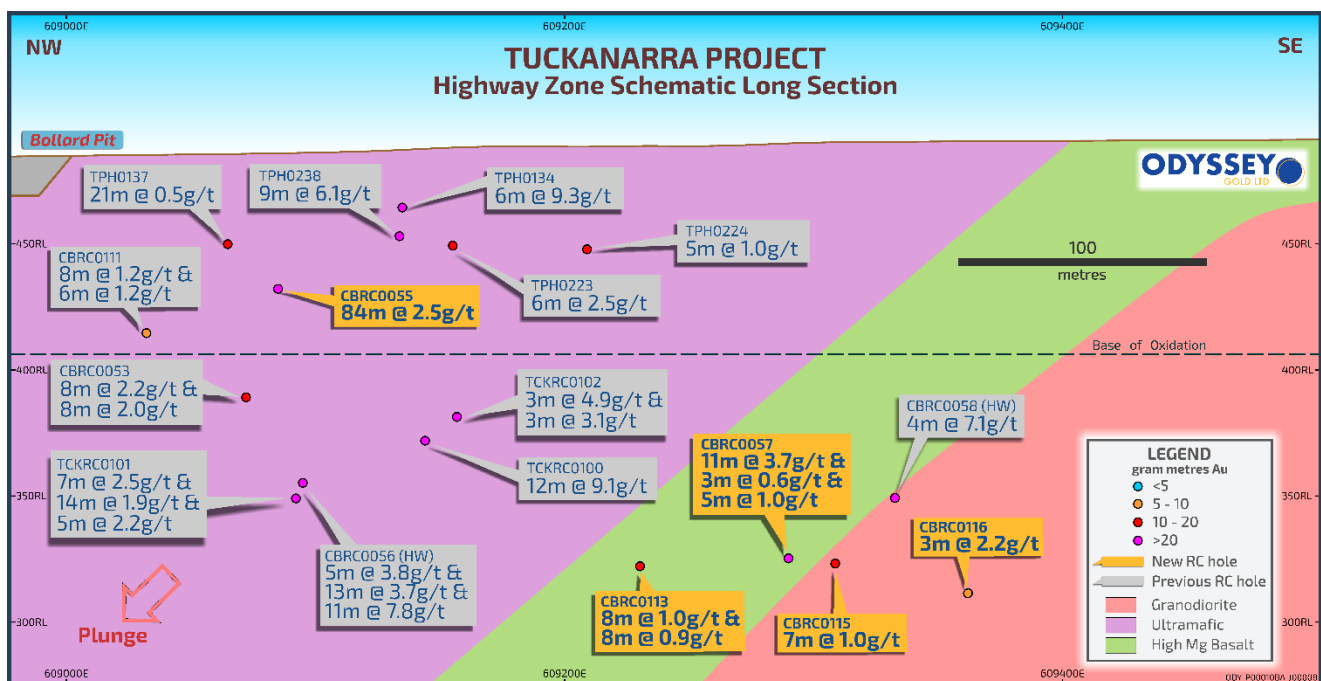


Figure 1 – Highway Zone Long Section highlighting recent results. Holes with a TPH prefix are RAB holes that do not penetrate the full width of mineralisation

Drilling at the Highway Zone completed in late 2021 included results of 7m @ 2.5g/t Au, 14m @ 1.9g/t Au, and 5m @ 2.2g/t Au in TCKRC0101<sup>iv</sup> (Figure 1). This drilling highlighted the potential for significant growth of the historic pit to the east of the Bollard Pit.

The Highway Zone is coincident with a north-northeasterly striking regional structure interpreted in airborne magnetics. The mineralisation is in an orientation not previously recognised at the Tuckanarra Project.

RC drilling has continued at the Highway Zone. Results for 8 holes have returned, confirming significant supergene gold development along with bedrock gold mineralisation. The latest results show a strong relationship between the host rock and the development of the Highway Zone mineralisation. Thicker higher grade intervals are intersected in ultramafic and banded iron formation. The basalt below the ultramafic gives more weakly developed mineralisation. The intersection between the Highway Zone and ultramafic rock type results in a moderate southerly plunge to mineralisation.

Drillhole CBRC0055 intersected mineralised up dip of previous hole CBRC0056 (40m @ 3.9g/t Au from 170m). Both holes intersected three zones of mineralisation within a broader interval. CBRC0055, along with CBRC0056 and TCKRC0101 confirm thick mineralisation at the intersection of the Cable-Bollard Trend, and Highway Zone. This structure intersection has a steep plunge to the south.

- **CBRC0055**    **84m @ 2.6g/t Au from 25m including**
  - **16m @ 4.4g/t Au from 25m in oxide and**
  - **16m @ 1.9g/t Au from 53m in oxide and**
  - **30m @ 3.3g/t Au from 79m including:**
    - **7m @ 10g/t Au from 89m**

Holes CBRC0055 correlates well with previous hole CBRC0056 which contained a wide interval of 40m @ 3.9g/t Au from 170m comprised of three zones of:

- **5m @ 3.8g/t Au (170m)**
- **13m @ 3.7g/t Au (180m)**
- **11m @ 7.8g/t Au (199m) including 6m @ 13.8g/t Au (199m)**

The lower of the three zones of mineralisation often seen at the Highway Zone contains higher grade mineralisation. Notably in CBRC0055 (7m @ 10g/t Au from 89m) CBRC0056 (11m @ 7.8g/t Au) and TCKRC0100 (12m @ 9.1g/t Au from 132m) contain the thickness and grade of mineralisation that can be considered for future underground mining evaluation.

Hole CBRC0054 targeted to drill oxide mineralisation in the footwall of the Highway Zone structure adjacent to CBRC0055 in 40m spaced drilling. Gold in oxide has been intersected with:

- **CBRC0054**    **2m @ 0.9g/t Au from 10m and**
  - **2m @ 0.9g/t from 55m and**
  - **6m @ 1.2g/t Au from 63m**

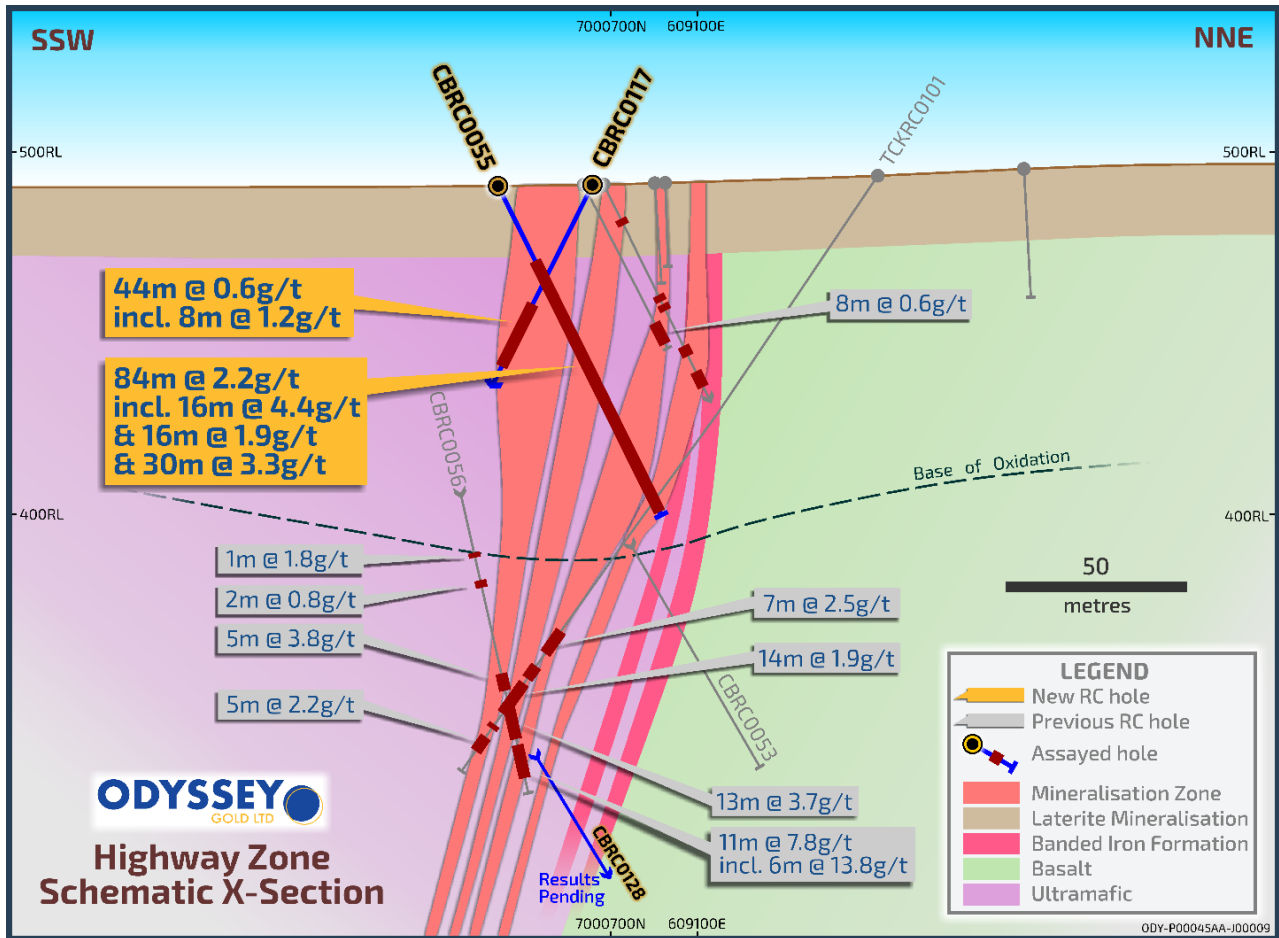


Figure 2 - Cross section through holes CBRC0117 and CBRC0055. CBRC0117 is drilled oblique to the cross section and is not fully displayed.

The Highway Zone has not previously been drilled to the south of the intersection with the Cable-Bollard Trend. A single hole drilled to the east, CBRC0117, has intersected significant oxide mineralisation in the extrapolated position of the Highway Zone to the south.

- **CBRC0117** 44m @ 0.6g/t Au from 32m including
  - 8m @ 1.2g/t Au from 64m

Drilling of the Highway Zone within the oxide profile is likely to intersect thick intervals of mineralisation as seen in CBRC0117. Drilling at the Highway Zone to date has focussed on determine the strike and dip of mineralisation in bedrock. The intersection of the structure in oxide will be a focus in the second half of the year.

Mineralisation remains open to the south. Hole CBRC0127 (results pending) is planned to intersect this position. Additional drilling is planned to the south of CBRC0127 in the coming months.

Four holes were drilled on 80m spaced sections targeting extensions to the mineralisation to the east. Three of the four holes intersected the structure in basalt. The mineralisation intersected in basalt is narrower and lower grade than where the structure is intersected in ultramafic or banded iron formation.

- **CBRC0113** 8m @1.0g/t Au from 199m and
  - 8m @ 0.9g/t Au from 215m
- **CBRC0116** 3m @ 2.2g/t Au from 206m
- **CBRC0115** 7m @ 1.0g/t from 189m

Future drilling is planned to intersect the structure up dip in ultramafic and at depths more amenable to open pit mining.

Banded iron formation occurs towards the top of the basalt. CBRC0057 intersected several units of banded iron formation and 1m samples returned for this hole include:

- **CBRC0057** 3m @ 6.4g/t Au from 156m and
  - 11m @ 3.7g/t Au from 186m
  - 3m @ 0.6g/t Au from 201m
  - 5m @ 1.0g/t Au from 214m

The most northern RC hole drilled on the Highway Zone, CBRC0124, intersected quartz veining in oxide and ended in granite. This hole now appears to be drilled to the east of the northern extension of the Highway Zone.

### Future Work

The mineralisation on Highway Zone is open to the East towards a historic RAB (“Rotary Air Blast”) hole of 3m @ 3.0g/t and open to the south. RC and RAB drilling is planned to rapidly extend the strike of mineralisation in both directions. Additional drilling is required up dip to target the thick oxide mineralisation as seen in CBRC0055 and adjacent holes.

A number of other targets have demonstrated high grade mineralisation beneath the oxide pits including at Maybelle where 4m @ 53.9g/t Au<sup>v</sup> was recently intersected. These advanced targets and a number of early-stage targets are outlined in the Company presentation (ASX Announcement 1 August 2022) on the website.

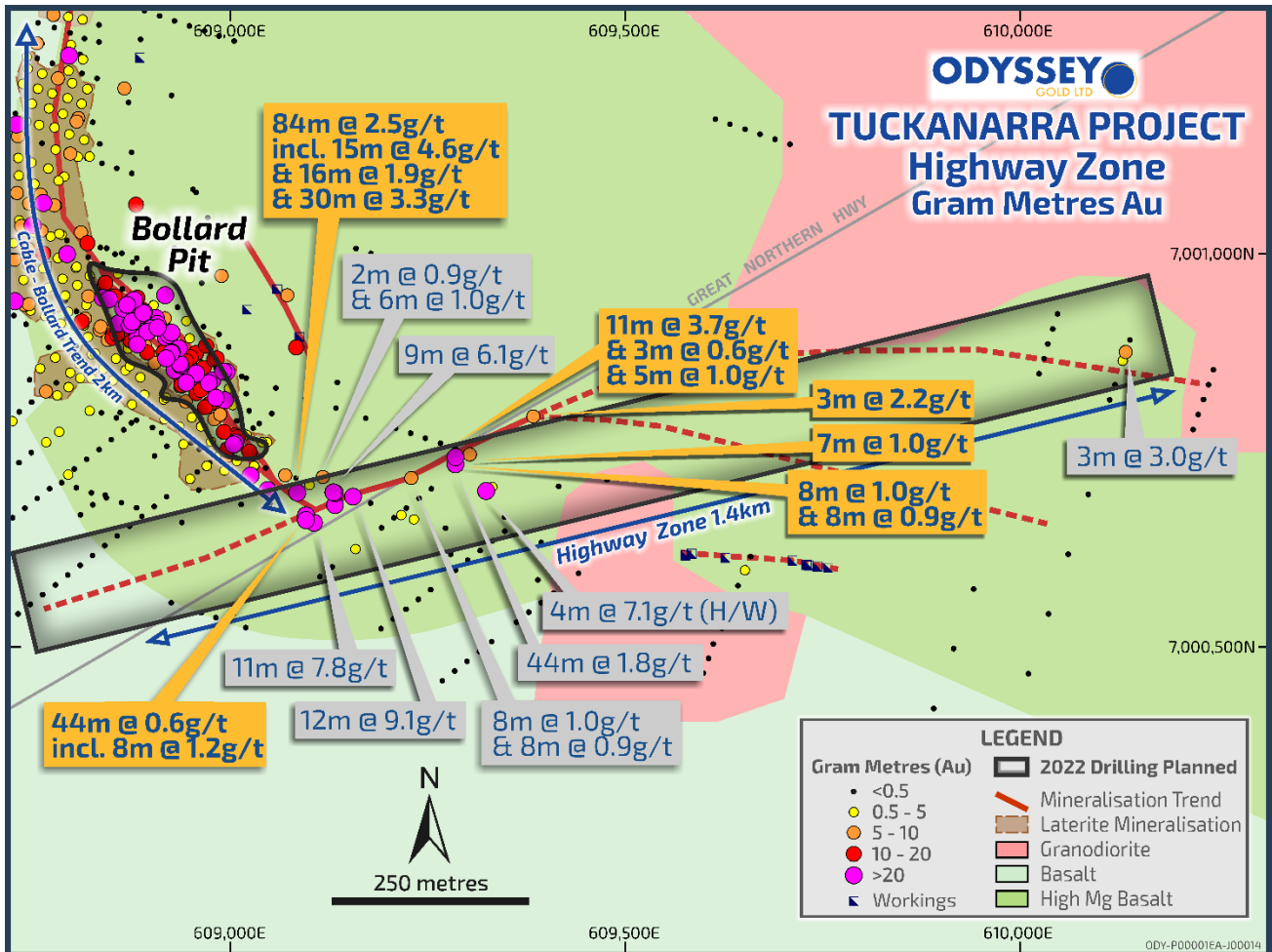


Figure 3 - Strike extensions of the Highway Zone planned for RC drilling in 2022

### Tuckanarra Project Background

Five shallow oxide pits were mined on the Tuckanarra Project in the 1990's producing 101.1koz at an average grade of 3.9g/t Au. Additionally, ~40koz were produced at an average grade of 7.2g/t Au from the only modern underground mine on the Project. The Project is located between Meekatharra and Mount Magnet, proximal to multiple gold processing plants, along the Great Northern Highway.

Previous resource development and open pit mining was focused on laterite and oxide mineralisation due to low gold prices. Odyssey has recognised the potential for significant strike and plunge extensions to the mineralisation. The potential has been demonstrated in 2021 along over 2km of strike with results from drilling including 2.3m @ 600.2g/t Au from 249m<sup>vi</sup>, 24m @ 4.5g/t Au from 179m<sup>vii</sup> and 7m @ 14.3g/t Au from 112m<sup>viii</sup>.

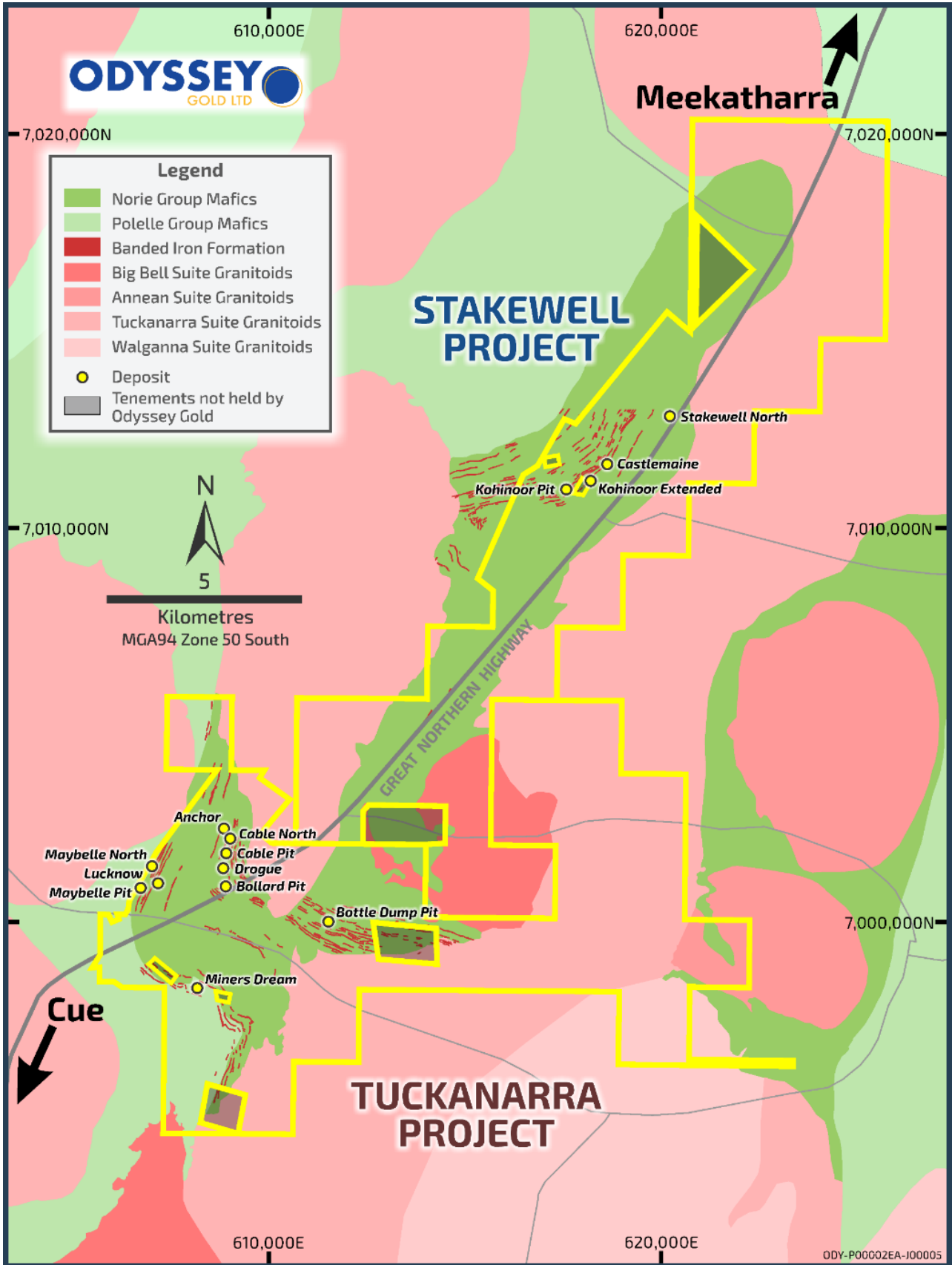


Figure 4. Tuckanarra Project Area Prospect Map



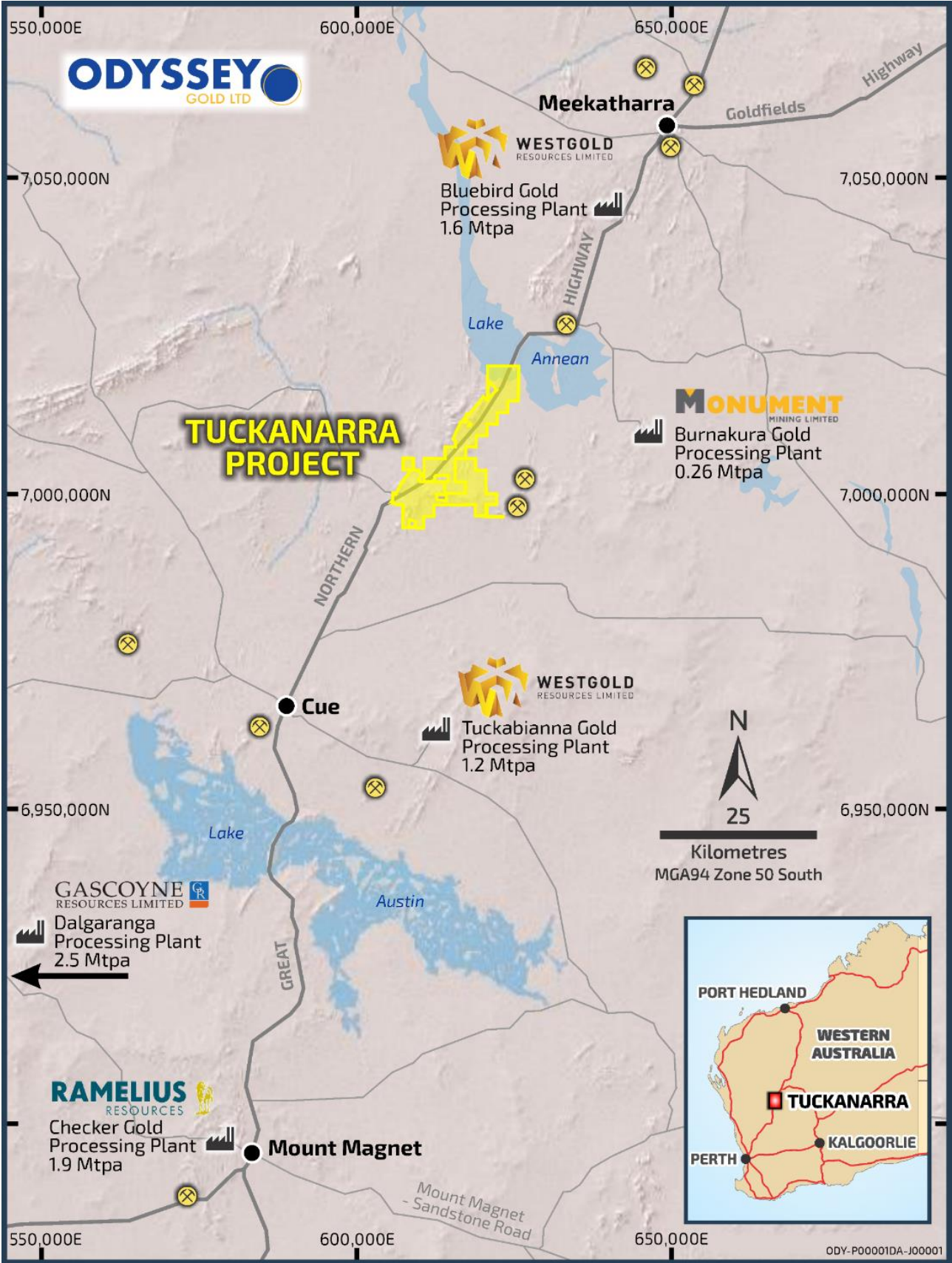


Figure 5 - Tuckanarra Project Location Map

## APPENDIX 1 - DRILL INTERCEPT TABLES

**Table 1. Drillhole details for reported Tuckanarra Project results.**

Hole ID	Type	East	North	RL	Depth (m)	Dip	Azimuth	Target
CBRC0054	RC	609081	7000698	487	112	-56	67	Highway Oxide
CBRC0055	RC	609050	7000680	487	109	-55	67	Highway /Bollard
CBRC0057	RC	609306	7000636	487	250	-55	342	Highway
CBRC0113	RC	609082	7000694	487	160	-55	328	Highway
CBRC0115	RC	609348	7000664	488	250	-55	329	Highway
CBRC0116	RC	609416	7000703	489	228	-55	337	Highway
CBRC0117	RC	609082	7000694	487	160	-55	153	Highway
CBRC0124	RC	609478	7000711	489	114	-60	345	Highway

MGA94 Zone 50 Grid

**Table 2 – Progress drill results from the Highway Zone Target at the Tuckanarra Project**

Hole ID	From (m)	To (m)	Length (m)	Au (g/t)	Target	Comment
CBRC0054	10	12	2	0.5	Highway	
CBRC0054	37	41	4	0.4	Highway	
CBRC0054	55	57	2	0.9	Highway	
CBRC0054	63	69	6	1	Highway	Hole ended in mineralisation
<b>CBRC0055</b>	<b>25</b>	<b>109</b>	<b>84 (40m TW)</b>	<b>2.5</b>	Highway	
<b>including</b>	<b>25</b>	<b>40</b>	<b>15</b>	<b>4.6</b>	Highway	
<b>and</b>	<b>53</b>	<b>69</b>	<b>16</b>	<b>1.9</b>	Highway	
<b>and</b>	<b>79</b>	<b>109</b>	<b>30</b>	<b>3.3</b>	Highway	
<b>including</b>	<b>89</b>	<b>96</b>	<b>7</b>	<b>10</b>	Highway	
CBRC0057	175	17	2	1.1	Highway	1m samples of previously reported composites
<b>CBRC0057</b>	<b>156</b>	<b>159</b>	<b>3</b>	<b>6.4</b>	Highway	1m samples of previously reported composites
<b>CBRC0057</b>	<b>186</b>	<b>197</b>	<b>11</b>	<b>3.7</b>	Highway	1m samples of previously reported composites
CBRC0057	201	204	3	0.6	Highway	Hole extension
CBRC0057	214	219	5	1	Highway	Hole extension
CBRC0113	199	207	8	1	Highway	
CBRC0113	215	223	8	0.9	Highway	
CBRC0115	88	92	4	0.6	Highway	4m composite
CBRC0115	100	104	4	0.7	Highway	4m composite
CBRC0115	115	116	1	1.9	Highway	
CBRC0115	120	124	4	0.4	Highway	4m composite
CBRC0115	128	132	4	0.8	Highway	4m composite
CBRC0115	170	173	3	0.5	Highway	
CBRC0115	189	196	7	1	Highway	
CBRC0116	206	209	3	2.2	Highway	
<b>CBRC0117</b>	<b>32</b>	<b>76</b>	<b>44</b>	<b>0.6</b>	Highway	4m composites
<b>including</b>	<b>64</b>	<b>72</b>	<b>8</b>	<b>1.2</b>	Highway	4m composite
CBRC0124			No significant assay		Highway	Drilled to east of Highway Zone

Results are reported > 2m @ 0.5g/t and/or where geologically significant.

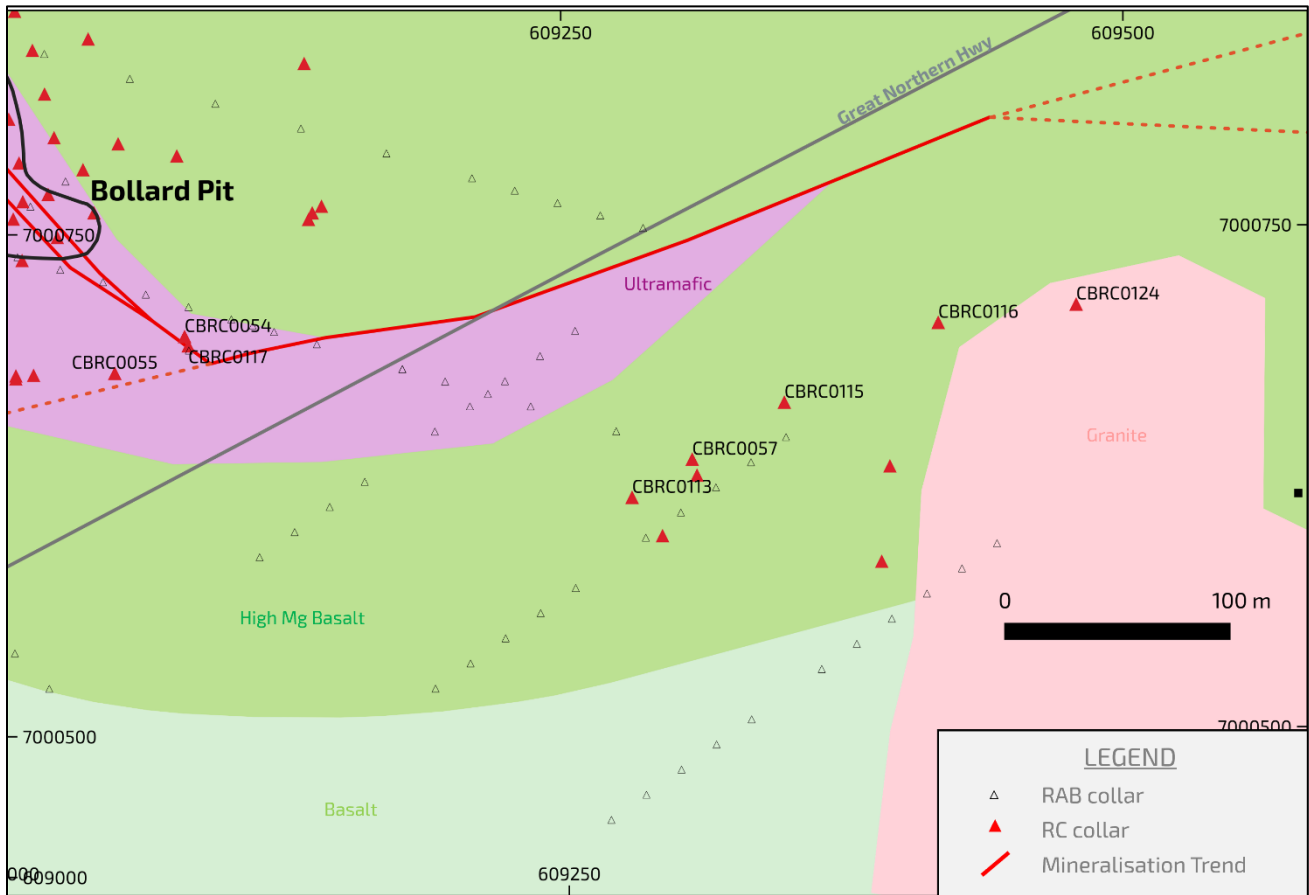


Figure 6 - Collar plan showing the location of the announced results

## APPENDIX 2 - JORC Code, 2012 Edition – Table 1

### Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<i>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.</i>	Sampling methods used for samples in this release are: 1m samples - Reverse Circulation (RC) drilling. These samples are split using a cone splitter into calico bags representing the 1m interval. Hole diameter starting at 5 ¾ inch diameter reducing as the hole progresses. Individual samples weigh less than 5kg. The sample size is deemed appropriate for the grain size of the material being sampled. 1m intervals were selectively composited into 4m intervals as described below.
	<i>Include reference to measures taken to ensure sample representation and the appropriate calibration of any measurement tools or systems used.</i>	Sampling was carried out under the ODY protocols and QAQC. See further details below. Sampling is supervised by a geologist and/or trained field technician. Rig inspections document chain markings of metre intervals, rig setup, splitter and cyclone cleanliness, consistency of sampling and adherence to company procedures.

Criteria	JORC Code explanation	Commentary
	<p>Aspects of the determination of mineralisation that are Material to the Public Report.</p> <p>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 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.</p>	<p>The RC samples were split by rig mounted cone splitter at the rig and collected in calico bags at 1m intervals of approximately 3-5kg in weight. For intervals of expected mineralisation the 1m samples are submitted immediately following drilling.</p> <p>Samples were submitted to Minanalytical Laboratory Perth where a 500g sample assayed by Photon Assay. Samples are sent to the NATA accredited MinAnalytical Laboratory in Canning Vale, Perth and analysed via Photon Assay technique (method code PAU2) along with quality control samples. Individual samples are assayed for gold after drying and crushing to nominally 85% passing 2mm and 450-500g split taken for PhotonAssay). The PhotonAssay technique was developed by CSIRO and Chrysores Corporation and is a fast, chemical free non-destructive, alternative using high-energy X-rays to traditional fire assay and uses a significantly larger sample size (500g v's 50g for fire assay). This technique is accredited by the National Association of Testing Authorities (NATA). Repeat assays are routinely taken of elevated gold samples.</p>
<b>Drilling techniques</b>	<p>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).</p>	<p>RC drilling with a face sampling bit was completed by Strike Drilling.</p> <p>Downhole surveys for RC drilling are recorded using a True North seeking GYRO survey tool.</p>
<b>Drill sample recovery</b>	<p>Method of recording and assessing core and chip sample recoveries and results assessed.</p>	<p>The majority of the samples are reported to be dry. Typically, drilling operators ensured water was lifted from the face of the hole at each rod change to ensure water did not interfere with drilling and to make sure samples were collected dry.</p>
	<p>Measures taken to maximise sample recovery and ensure representative nature of the samples.</p>	<p>Drilling is carried out orthogonal to the mineralisation to get representative samples of the mineralisation. Standard practices for RC and diamond drilling are used.</p>
	<p>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.</p>	<p>No relationship between recovery and grade have been identified. This is not seen to be a material risk with the drilling methods and approach to sampling being undertaken. No downhole contamination to subsequent samples is observed in assay results.</p>
<b>Logging</b>	<p>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.</p>	<p>All RC chips is logged onsite by geologists to a level of detail to support future mineral resource estimation, mining studies and metallurgical studies.</p>
	<p>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</p>	<p>Logging is qualitative and records lithology, grain size, texture, weathering, structure, alteration, veining and sulphides. Core and chips are digitally photographed. Chip trays are routinely scanned with pXRF</p>
	<p>The total length and percentage of the relevant intersections logged</p>	<p>All holes are logged in full, including the reported intersections.</p>
<b>Sub-sampling techniques and sample preparation</b>	<p>If core, whether cut or sawn and whether quarter, half or all core taken.</p>	<p>No core sampling results are reported in this announcement</p>
	<p>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</p>	<p>1m RC samples are split using a cone splitter. Composite RC samples were collected by spear from the reject from the cone splitter by spearing and combined into 4m composite samples. Original 1m samples collected off the rig were submitted for analysis when corresponding 4m intervals returned Au&gt;0.5ppm in the composite sample. All samples are dry. Drilling of a hole is terminated if dry samples cannot be produced.</p>
	<p>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</p>	<p>1m RC samples were submitted to Minanalytical Laboratory Perth where a 400-600g sample was assayed by Photon Assay. The sample preparation procedures carried out are considered acceptable. All coarse and pulp rejects are retained on site.</p>
	<p>Quality control procedures adopted for all sub-sampling stages to maximise representation of samples.</p>	<p>Sampling is supervised by a geologist and sample recovery and moisture content noted. A checklist to ensure ongoing checking for sample quality and to avoid contamination has been implemented.</p>

Criteria	JORC Code explanation	Commentary
	<i>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.</i>	Samples are inspected for contamination. The RC cyclone is routinely cleaned. Field duplicates are not currently collected. 4m composites have been compared to 1m samples with good correlation.
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Sample sizes are considered appropriate to give an indication of mineralisation. Once a meaningful population of samples is collected per sample domain an assessment will be made of the appropriate weight and number of samples to allow the classification of mineral resources.
<b>Quality of assay data and laboratory tests</b>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	All samples were submitted to MinAnalytical Laboratory Perth where a 400-600g sample was assayed by Photon Assay for gold. The larger sample weight assists in producing a more accurate evaluation of the grade of the mineral domain at the pre-resource stage when compared to 30g fire assay.
	<i>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.</i>	No geophysical surveys reported in this release.
	<i>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.</i>	Certified reference material (CRM) samples sourced from Geostats and were inserted every 20. External lab check assays have not been completed for the current program.
<b>Verification of sampling and assaying</b>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	All assays are reviewed by Odyssey Gold and significant intercepts are calculated as composites and reported using a nominal 0.5g/t Au cut-off grade; however, intercepts may be reported within sub-grade mineralisation if dictated by a geological domain. A maximum of 3m consecutive internal waste is nominally allowed in composites. All significant intercepts are checked by the Competent Person. Previous announced intersections may vary with a change in interpretation. A re-announcement of previous results will not occur unless the Competent Person decides the change is material. The competent person routinely inspects drilling, and chips and core to ensure correlation with assay results.
	<i>The use of twinned holes.</i>	TCKRC0052 drilled in 2021 was a twin of MYD100. The two holes show good correlation providing confirmation of hole positions, assay results and mineralisation widths.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	All drill hole logging is completed on digital logging templates with built-in validation. Logging spreadsheets are uploaded and validated in a central MS Access database. All original logging spreadsheets are also kept in archive. Duplicated copies of the database and drillhole data is routinely backed up through cloud server backups. Logging of key intersections has been reviewed by the Geology Manager / Managing Director.
	<i>Discuss any adjustment to assay data.</i>	No assay data was adjusted.
<b>Location of data points</b>	<i>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.</i>	Drill hole collars are located using handheld GPS with 3-5m accuracy. Downhole surveys for both RC and DDH drilling are recorded using a True North seeking GYRO survey tool. Subsequent to drilling, collars are surveyed by a licensed surveyor using a Topcon Hyper VR GNSS with expected accuracy of +/- 0.03m horizontal and +/- 0.05m vertical relative to the base station.
	<i>Specification of the grid system used.</i>	The project currently uses the MGA94, Zone 50 grid system.
	<i>Quality and adequacy of topographic control.</i>	The site topographic surveys including the pit surveys match well with the drill hole collars. Detailed aerial photography over the region has aided on locating historic drillhole collars. An updated digital terrain model has been generated from a recent UAV drone survey which will allow a review of collar RLs.
<b>Data spacing and</b>	<i>Data spacing for reporting of Exploration Results.</i>	This program was drilled at approximately 80x40 drill spacing in the plane of the structure.

Criteria	JORC Code explanation	Commentary
<b>distribution</b>	<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>	Drilling is on a spacing which is sufficient to test the grade continuity of mineralisation for this style of mineralisation. The current data set is considered potentially appropriate for use in a future Mineral Resource. A non JORC 2012 resource has previously been declared for the deposits being drilled.
	<i>Whether sample compositing has been applied.</i>	4m sample composites are used. Where reported intervals are composites, this is disclosed in the announcement Table 2. All significant 4m composites are subsequently replaced with the intersections from 1m samples.
<b>Orientation of data in relation to geological structure</b>	<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>	It is considered that the orientation of the bulk of the drilling and sampling suitably captures the dominant "structure" of the style of mineralisation at Tuckanarra.
	<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>	The bulk of the intercepts appear to be orthogonal to the mineralisation +/- 25 degrees unless otherwise stated in the intercepts table. Further work will be undertaken to analyse this in the future as exploration works progress. Assay intercepts are stated as down-hole lengths. Previous resource modelled work has highlighted grade bias in holes drilled down the mineralisation.
<b>Sample security</b>	<i>The measures taken to ensure sample security.</i>	RC samples are collected in prenumbered calico bags. Samples are delivered to the lab directly by Odyssey personnel or freighted via an independent freight provider.
<b>Audits or reviews</b>	<i>The results of any audits or reviews of sampling techniques and data.</i>	All QAQC data is reviewed to ensure quality of assays; batches containing standards that report greater than 2 standard deviations from expected values are re-assayed.

## 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>	<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>	Odyssey's subsidiary, Tuckanarra Resources Pty Ltd, owns an 80% interest in the Tuckanarra Project, comprising two Exploration Licences (E20/782-783), one Mining Licence (M20/527), and seven Prospecting Licences.
	<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>	The tenement package is understood to be in good standing with the WA DMIRS.
<b>Exploration done by other parties</b>	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Refer to the body of the report and to previous announcements. Exploration History Gold was discovered at Tuckanarra in the late 1890s by prospectors searching further afield from Cue and Mt Magnet, with the first mine (Nemesis) discovered and developed in 1900. Subsequent exploration and development located additional deposits in the general area with the majority of deposits being developed as small underground mines exploiting narrow, highly mineralised quartz veins associated with Banded Iron Formation lithologies. In general, these historic gold mines were mined down to the water table, which is approximately 20m deep at Tuckanarra. 1980 to 1987: Tuckanarra Minerals By the mid-1980s Tuckanarra Minerals had completed in excess of 64 RAB holes, defining gold mineralisation at the Maybelle prospect and identifying numerous additional areas which were prospective for gold resources. They concluded that the area hosted excellent potential for the delineation of small-to-medium gold mines and noted that little drilling had been completed at depth. Following the 1987 stock market crash, Metana Minerals purchased the Tuckanarra group of tenements. 1988 to 1996: Metana Minerals (Gold Mines of Australia) Between 1988 and 1990 Metana Minerals (renamed Gold Mines of Australia ("GMA")) completed a systematic 200m x 40m soil geochemistry program over a large portion of their tenement holding, including Tuckanarra. Between 1990 and 1995 GMA undertook numerous drilling programs encompassing Rotary Air

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		<p>Blast (“RAB”), Reverse Circulation (“RC”) and Diamond Drilling (“DD”) over the defined gold anomalies and historic workings. This resulted in the delineation of gold mineral resources at the Maybelle, Bollard, Bottle Dump and Cable Prospects, which were mined between 1990-1994.</p> <p>1996 to 2003: St Barbara Mines Limited            In 1996 St Barbara Gold Mines (“St Barbara”) purchased the Reedys plant and tenements from GMA. Minimal exploration was undertaken until Anglo Gold Australia (“Anglo”) became managing joint venture partner in late 2000. Anglo focused on the central Tuckanarra tenement area and completed detailed GIS compilation, soil sampling, rock chip sampling and the drilling of a total of 21 RC holes for 3512 metres and the drilling of 109 aircore and RAB holes for 5127 metres.</p> <p>2003 to 2006: Mercator Gold Pty Ltd            Following the withdrawal of Anglo from the joint venture, St Barbara entered into a joint venture with Mercator Gold Australia Pty Ltd (“Mercator”). Mercator completed GIS compilation work, mapped the existing pits and completed a number of lines of geophysical induced polarisation to test for the presence of chargeable zones that may have a gold-sulphide association.</p> <p>2006 to 2011:            No field work was carried out on the Tuckanarra gold project 2006-2010. The Tuckanarra tenement package was acquired by Phosphate Australia in late 2011. Phosphate Australia focused on drilling laterite and oxide resources on the Cable-Bollard Trend, and Anchor with aircore drilling before selling the project to Monument mining in 2015. Odyssey Gold acquired the project in late 2020.</p>
<p><b>Geology</b></p>	<p><i>Deposit type, geological setting and style of mineralisation.</i></p>	<p>The Project area is located within the Meekatharra-Wydege Greenstone belt within the north-eastern Murchison Domain. The majority of greenstones within the Meekatharra-Wydege belt have been stratigraphically placed within the Polelle Group and the Norie Group of the Murchison Supergroup.</p> <p>The Project area covers Archean basement rocks assigned to the 2815-2805 Ma basal Norie group of the Murchison Supergroup, which covers the eastern margin of the Meekatharra-Wydege greenstone belt. The Norie group comprises a thick succession of pillowed and massive tholeiitic basalts of the Muroulli Basalt, and conformably overlying and mafic schist and felsic volcanoclastics with interbedded BIF and felsic volcanic rocks of the Yaloginda Formation (Van Kranendonk et al, 2013). These rocks are folded around the south-plunging Besley Anticline. Adjacent to these rocks are the mafic sequences of the Meekatharra Formation (Polelle Group).</p> <p>Granitoids in the Project area comprise of the Jungar Suite and Annean Supersuite to the east and the Munarra Monzogranite of the Tuckanarra Suite to the west. The Jungar Suite comprises of foliated to strongly sheared K-feldspar-porphyrific monzogranites. These rocks are characterized by strong shear fabrics that suggest they may have been emplaced during, or just before, shearing. The Annean Supersuite includes hornblende tonalite and monzogranitic rocks. The Tuckanarra Suite consists of strongly foliated and locally magmatically layered granodiorite to monzogranitic rocks.</p> <p>The Project is situated within the ‘Meekatharra structural zone’, a major regional, NE-trending shear dominated zone, about 50 to 60km wide, stretching from Meekatharra through the Cue region as far south as Mount Magnet. This major shear zone is dominated by north and northeast-trending folds and shears (e.g. Kohinoor shear). The Mt Magnet fault is the major east-bounding structure of the Meekatharra structural zone.</p> <p>The mineralised zones of the Project are located in the Tuckanarra greenstone belt comprising a series of mafic and inter-banded mafic and iron formations, with a variable component of clastic sediments, (greywackes and minor shales). The sequence is folded into a south-westerly plunging anticline with a well-developed axial plane cleavage and numerous fractures, bedding parallel faults and shears. The belt extends northwards to Stake Well and east towards the</p>

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		<p>Reedys mining centre.</p> <p>The area has four small open pits, extensive minor gold workings, and prospecting pits principally associated with mafic lithologies and Altered Ferruginous Transitional (<b>AFT</b>) and Altered Ferruginous Fresh (<b>AFF</b>) material which were originally banded iron formations. The magnetite content within the AFT/AFF's has been destroyed and predominantly altered to an assemblage of hematite with the relic structure of the banded iron intact.</p> <p>Where mineralised veins intersect major competency contrasts such as high magnesium basalt or AFT/AFF, veining becomes layer parallel resulting in larger deposits such as the Bollard and Cable deposits.</p> <p>A number of styles of gold mineralisation have been identified in the area including:</p> <ul style="list-style-type: none"> <li>• Mineralised AFT and AFF material ± quartz veining (Cable East, Cable Central).</li> <li>• Quartz veins ± altered basalts (Cable West, Lucknow, Maybelle, Maybelle North, Miners' Dream); and</li> <li>• Gold mineralisation within laterite (Anchor, Bollard, Drogue).</li> </ul> <p>Below the base of complete oxidation (~40m) gold mineralisation is commonly seen associated with quartz-pyrrhotite veins and pyrrhotite replacement of the host rocks. Prospective models for the discovery of additional gold deposits in the area are related to the intersection of shear zones with prospective lithologies.</p>
<b>Drill hole Information</b>	<p><i>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:</i></p> <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> <p><i>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.</i></p>	<p>Drill hole details are provided in Appendix 1. Results that are interpreted to be discontinuous, or outside the areas of interest may not be highlighted in the announcement.</p>
<b>Data aggregation methods</b>	<p><i>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.</i></p> <p><i>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.</i></p> <p><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></p>	<p>Significant intercepts are reported as down-hole length-weighted averages of grades above a nominal 0.5 g/t Au; or according to geological/mineralised units in occasional cases where warranted. No top cuts have been applied to the reporting of the assay results. Wide intersections are subdivided to reflect grade distributions within the interval.</p> <p>Higher grade intervals are included in the reported grade intervals; and have also been split out on a case-by-case basis where relevant.</p> <p>No metal equivalent values are used.</p>



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<b>Relationship between mineralisation widths and intercept lengths</b>	<p><i>These relationships are particularly important in the reporting of Exploration Results.</i></p> <p><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></p> <p><i>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').</i></p>	<p>The bulk of the exploration drilling was conducted so that results would be close to orthogonal to the mineralisation as understood at the time; however, the true relationship to the mineralisation is not accurately determined. Due to restrictions of access, such as from historic open pits, the drill angle may be compromised. Cross sections are included in the announcement to illustrate the interpreted orientation of the drillhole to the mineralisation.</p> <p>True widths of intersections in this announcement are interpreted to be 80-100% of the downhole width.</p>
<b>Diagrams</b>	<p><i>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.</i></p>	<p>Refer to Figures in the body of this announcement and Appendix 1.</p>
<b>Balanced reporting</b>	<p><i>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.</i></p>	<p>Balanced reporting has been used. The exploration results should be considered indicative of mineralisation styles in the region. Exploration results stated indicated highlights of the drilling and are not meant to represent prospect scale mineralisation. As the projects are brownfields exploration targets, and there are large numbers of holes drilled over the region, it is considered appropriate to illustrate mineralised and non-mineralised drill holes by the use of diagrams, with reference to the table of significant intercepts.</p>
<b>Other substantive exploration data</b>	<p><i>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.</i></p>	<p>No other meaningful data is required to be presented other than what has been presented in the body of this announcement. The reader is referred to the Independent Geologists Report in the Odyssey Gold Prospectus.</p> <p>Only a few RAB holes were drilled at the extension of the highway zone. No previous drilling work has been conducted in the area known as the Highway Zone.</p>
<b>Further work</b>	<p><i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></p>	<p>Updates to the geological interpretation are currently underway to allow for future resource estimation. Planning of Rotary Air Blast ("RAB") and RC drilling is planned along for the screening of earlier stage targets across the project is in progress. Field mapping and soil sampling will be undertaken over newly identified prospective targets. Mapping and soil geochemistry is continuing ahead of planned RAB drilling on early-stage targets.</p>

## COMPETENT PERSONS STATEMENT

*The information in this announcement that relates to Exploration Results is based on, and fairly represents, information compiled or reviewed by Matt Briggs, who is a Competent Person. Mr Briggs is a Member of the Australasian Institute of Mining and Metallurgy and is a full-time employee of Odyssey and is a holder of options and performance rights in Odyssey Gold Limited. Mr Briggs has sufficient experience (25 years gold exploration, mining, resource evaluation, and strategic planning) that is relevant to exploration and the style of mineralisation and type of deposit under consideration, and to the activity being undertaken, to qualify as a Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). Mr Briggs consents to the inclusion in the announcement of the matters based on their information in the form and context in which it appears.*

## FORWARD LOOKING STATEMENTS

*Statements regarding plans with respect to Odyssey's project are forward-looking statements. There can be no assurance that the Company's plans for development of its projects will proceed as currently expected. These forward-looking statements are based on the Company's expectations and beliefs concerning future events. Forward looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of the Company, which could cause actual results to differ materially from such statements. The Company makes no undertaking to subsequently update or revise the forward-looking statements made in this announcement, to reflect the circumstances or events after the date of that announcement.*

*This ASX Announcement has been approved in accordance with the Company's published continuous disclosure policy and authorised for release by the Managing Director.*

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<sup>i</sup> Refer ASX announcement dated 23 June 2022

<sup>ii</sup> Refer ASX announcement dated 20 January 2022

<sup>iii</sup> Refer ASX announcement dated 11 May 2022

<sup>iv</sup> Refer ASX announcement dated 20 January 2022

<sup>v</sup> Refer ASX Announcement dated 25 July 2022

<sup>vi</sup> Refer ASX announcement dated 2 July 2021

<sup>vii</sup> Refer ASX announcement dated 20 January 2021

<sup>viii</sup> Refer ASX announcement dated 2 November 2021