

## NYMAGEE DISTRICT EXPLORATION UPDATE

Aurelia Metals Limited (ASX: AMI) ('Aurelia' or 'the Company') is pleased to provide further details of significant results from its recent exploration programs at the Federation deposit and the Lancelot prospect in the Nymagee District, NSW.

### Highlights

#### 1. Federation North Offset (Federation West)

Visual drill core results for diamond drill hole FDD215 at the Federation deposit, were previously released (see ASX announcement dated 5 April 2024 'Federation Exploration Update'). The Company has now received final assays for this drillhole, confirming a spectacular intercept. This result further supports the Company's excitement at the potential discovery of a faulted northern offset to the Federation deposit and the possibility that this offset may provide a material extension of mineralisation to the west.

**4.6m @ 33.9% Zn, 20.3% Pb, 1.6% Cu, 0.9g/t Au and 38g/t Ag in FDD215 from 414.7m**



Figure 1: Drill core from FDD215 between 412.7m and 419.6m

#### 2. Lancelot Surface Geochemistry

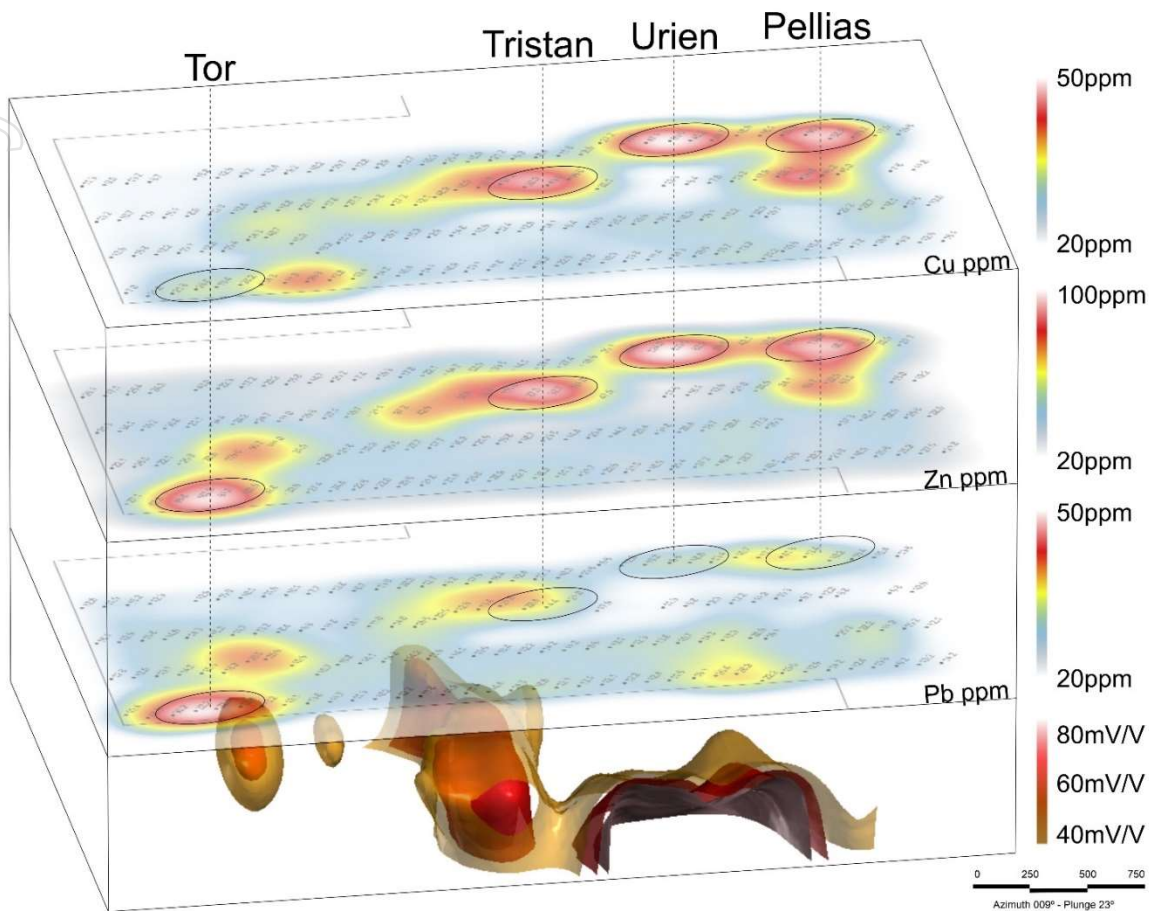
Results from a combined soil geochemical survey and auger drill program have now been received. Combining these with promising geophysical survey results (see ASX announcement dated 18 January 2023 'Survey Results'), a number of highly prospective target areas have been defined for follow-up drill testing, planned for FY25.

For more information, contact us at:

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384



**Figure 2:** 3D representation of Lancelot area IP chargeability shells (40, 60 and 80mV/V) with vertically projected Pb, Zn and Cu heatmaps (Kernel Density Estimation - KDE).

**Commenting on these exploration results, Chief Development and Technical Officer, Andrew Graham said:**

“The drill core of Federation hole FDD215 is visually spectacular. The assay results from this hole, that we released today, confirm an outstanding intercept, even when considered relative to very high-grade holes into the Federation deposit.

What is more exciting is that this drilling points to a faulted offset of the deposit, some 140m to the north. This offset has the potential to extend the Federation deposit materially to the west.

Additionally, the interpretation of soil auger work at the Lancelot prospect, combined with earlier geophysical results, has identified a number of exciting targets. These are planned to be drill tested during FY25.

Lancelot is a great example of our systematic and staged approach to exploration, with the results of low-cost surface soils supporting targeted geophysical surveys and then more detailed bottom-of-hole geochemical analysis. This approach allows the Company to cost-effectively work our premier landholding in the Cobar Basin.”

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

# 1. North Offset (Federation West)

Technical concept drilling at Federation West, to assess the potential for an offset orebody due to strike discontinuity, intersected significant massive sulphide mineralisation in diamond drillhole FDD215, approximately 140 metres north of the strike of the main deposit (see ASX announcement dated 5 April 2024 'Federation Exploration Update').

This drilling has demonstrated the further potential for high-grade mineralisation to continue west, offset to the north from the strike of the main orebody.

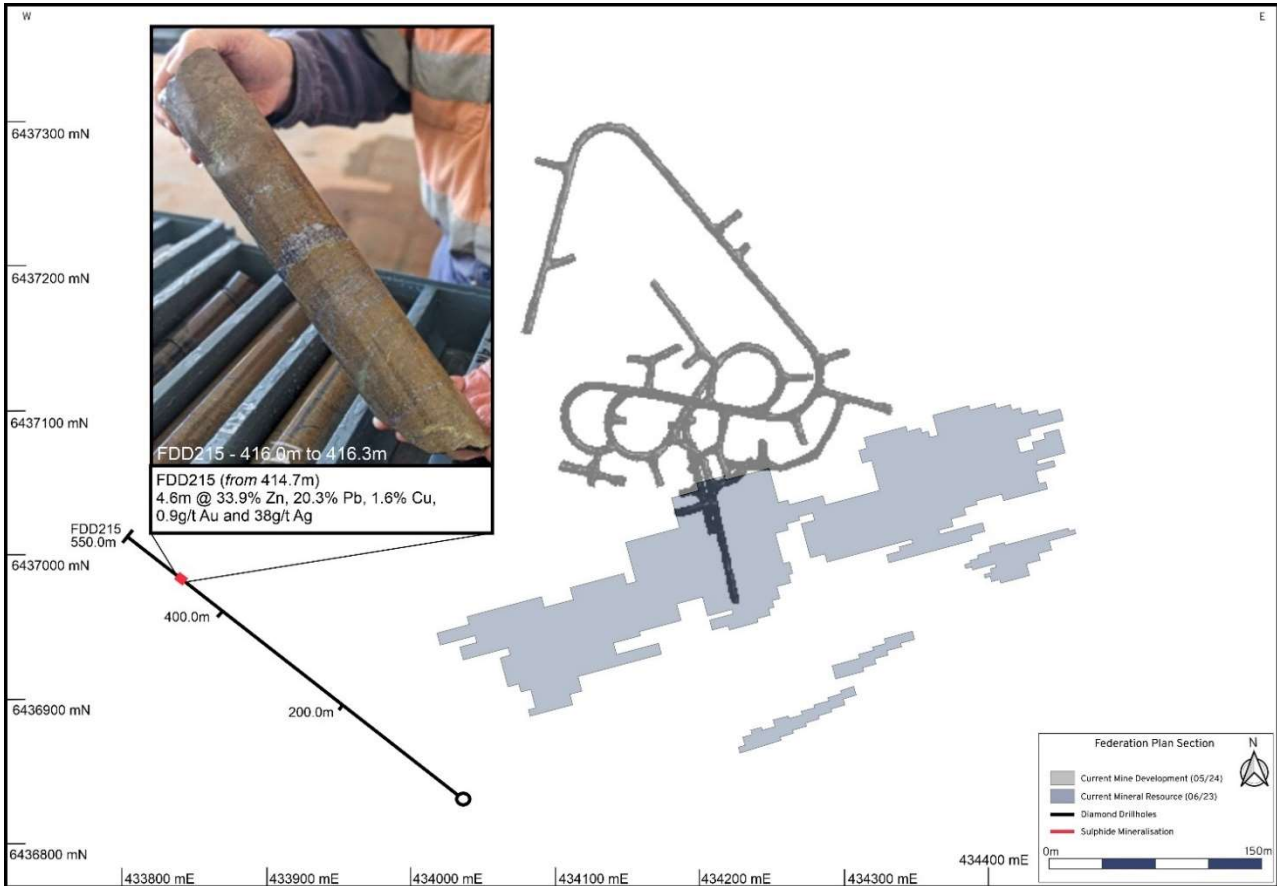


Figure 3: Plan section of the Federation deposit showing drillhole FDD215 with a significant intersection, current mine development at end of May 2024 and the current mineral resource outline.

Assay results for FDD215 have been received, confirming the exceptional grade of the mineralisation intercepted in the hole.

Table 1: Significant intersections from the Federation West North Offset Drill Program

Hole ID	Interval (m)	ETW* (m)	Zn (%)	Pb (%)	Cu (%)	Au (g/t)	Ag (g/t)	From (m)
FDD215	1.7	1.1	4.0	1.6	0.2	0.2	9	390.3
	4.6	2.8	33.9	20.3	1.6	0.9	38	414.7

\*Estimated true width

For more information, contact us at:

Level 17, 144 Edward Street  
 Brisbane QLD 4000  
 office@aureliametals.com.au

GPO Box 7  
 Brisbane QLD 4001

+61 7 3180 5000  
 aureliametals.com  
 ABN: 37 108 476 384

**Table 2:** Collar summary for the drillhole reported in this release at Federation

Type	Hole ID	Easting (True)	Northing (True)	RL (AHD)	DIP (degrees)	Azimuth (True)	Total Depth (m)
DD	FDD215	434030.2	6436839.4	318.5	-61.0	307.9	605.5

Base and precious metal mineralisation encountered in FDD215 is consistent in metallogeny to the main Federation deposit with an average zinc/lead ratio of 2:1. Grades encountered are very high and the alteration intensity remains strong, indicating mineralisation has significant potential to extend along strike and down dip.

Geophysical, structural and historical drilling data has been reviewed recently in light of the new intersections in FDD215. The currently unnamed fault (Federation West Fault) which has offset Federation West to the north appears to intersect the Dominion prospect when projected south by 1km. Exploration potential at the Dominion prospect will be re-considered with the new structural information.

The Federation West program concludes the FY24 Nymagee District exploration campaign. Further exploration drilling will commence early in FY25.

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

For personal use only

## 2. Lancelot Surface Geochemistry

Following the successful Induced Polarisation (IP) survey (see ASX announcement dated 18 January 2023 'Survey Results') the Company has completed extensive surface soil sampling and auger drilling with Bottom of Hole (BOH) sampling to improve surface geochemical resolution within the Lancelot area.

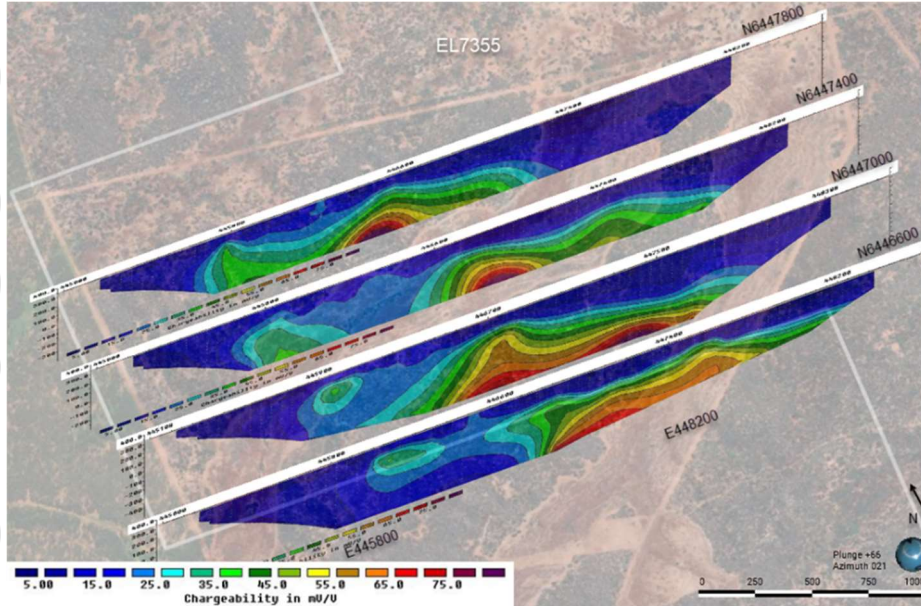


Figure 4: Lancelot Pole-Dipole IP survey lines and chargeability pseudosections (0.0 mV/V – 85.0 mV/V range) with potential sulphides represented by hot colours.

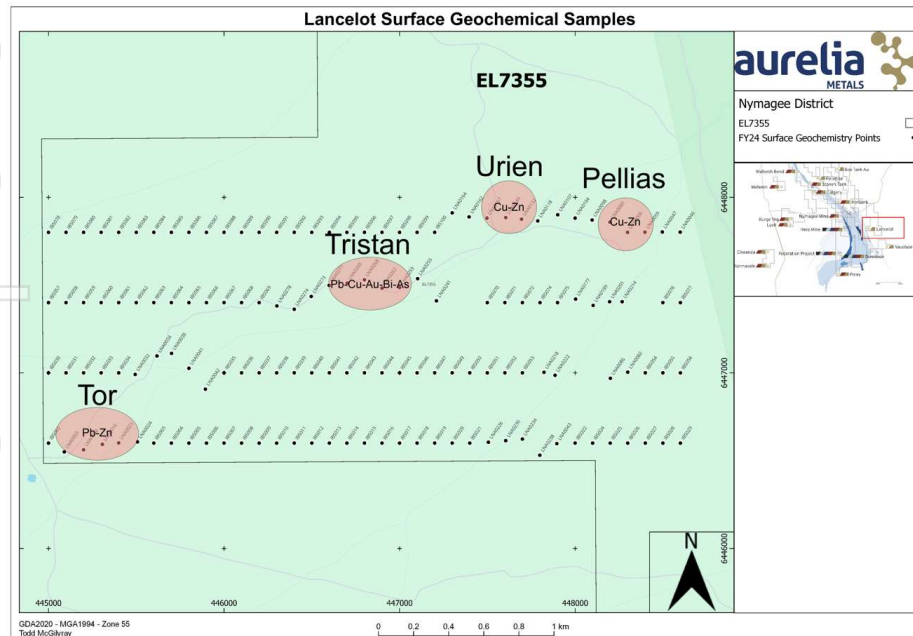


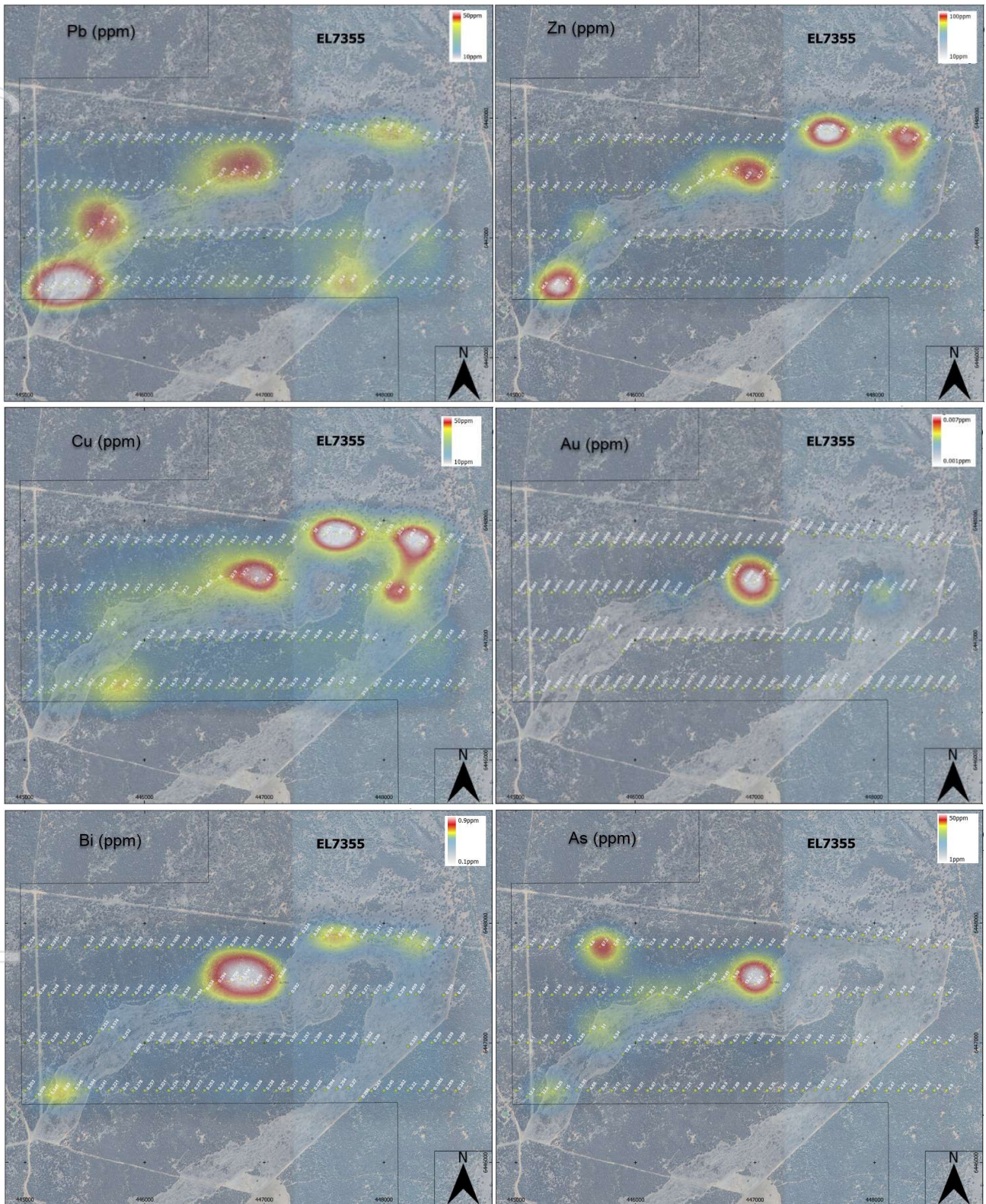
Figure 5: Lancelot Soils and Auger Sample locations and identified target areas.

For more information, contact us at:

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384



Figures 6-11: Surface geochemical sample point locations with assay results and KDE heatmaps with a linear colour stretch.

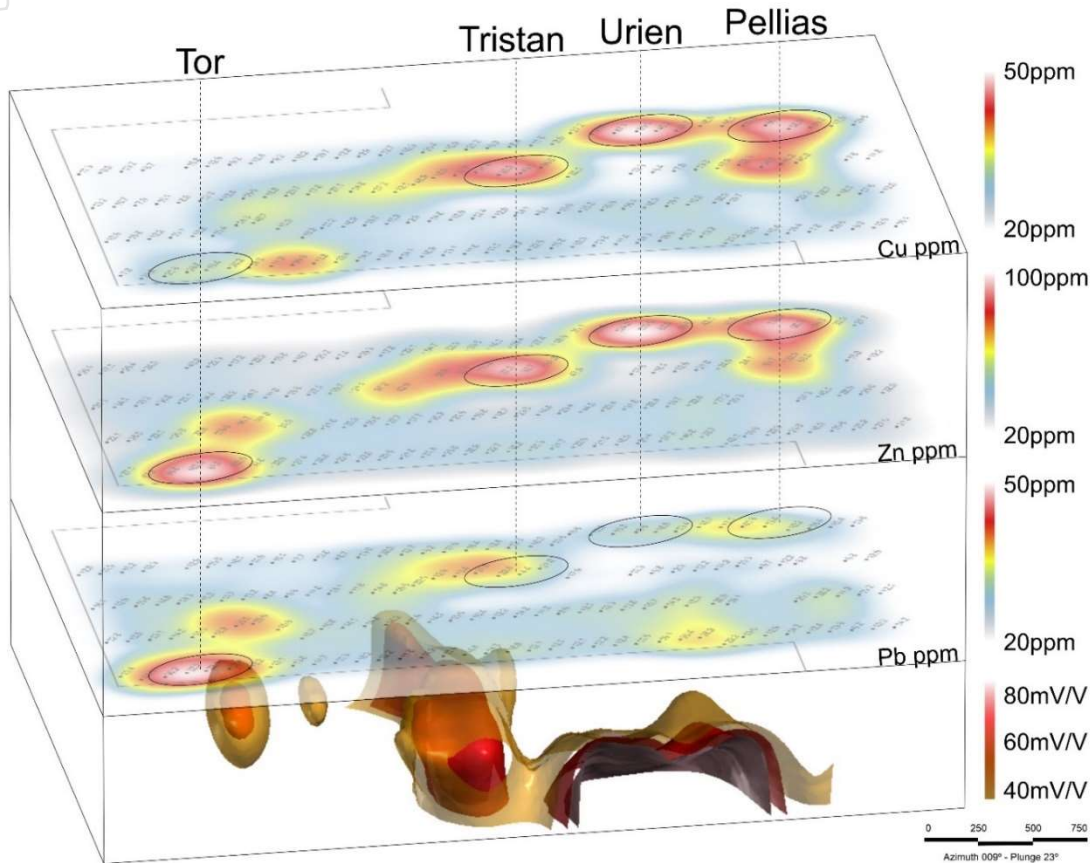
For more information, contact us at:

Level 17, 144 Edward Street  
 Brisbane QLD 4000  
 office@aureliametals.com.au

GPO Box 7  
 Brisbane QLD 4001

+61 7 3180 5000  
 aureliametals.com  
 ABN: 37 108 476 384

The combined geophysical and geochemistry program results have generated four key target areas to be tested by future drilling, identified as Tristan, Tor, Urien and Pellias, listed in order of importance.



**Figure 12:** 3D representation of Lancelot area IP chargeability shells (40, 60 and 80mV/V) with vertically projected Pb, Zn and Cu heatmaps with a linear colour stretch (KDE).

Each target area has been jointly assessed using surface geochemistry, results from the IP survey and the existing magnetic dataset.

Target areas and rationale are described below:

**Tor** – Combined Pb-Zn geochemical anomalism on the western extent of the IP survey, located on the western shoulder of a regional magnetic high and chargeability high to 60mV/V.

**Tristan** – Combined Pb-Cu-Au-Bi-As geochemical anomaly located directly above a very strong chargeability high up to 80mV/V and positioned 200m northeast of a discrete magnetic high.

**Urien** – Combined Cu-Zn geochemical anomaly located above a potential continuation of a northward diving chargeability high up to 60mV/V depth extent, associated with a minor increase in magnetic response in a broader magnetic low.

**Pellias** – Combined Cu-Zn geochemical anomaly located outside of the IP survey area to the east, associated with a magnetic low.

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

*Auger drillhole information and soil sample information is not considered material due to trace level assay and absent weighted average (downhole width) grades applied to samples. Reported assays are near surface or bottom of hole intervals only to represent the residual character of the regolith and subsurface geology. Assays will be used to target diamond drilling in the future, and any possible significant intersections will be reported if material.*

### 3. Location

Federation is located 10 kilometres (km) south of the Hera processing plant and 15km south of the Nymagee township in the Nymagee District. The Federation Mine is being developed on Mining Lease (ML) 1862, held by Hera Resources Pty Ltd, a wholly owned subsidiary of Aurelia. Current exploration drilling occurs wholly within ML1862.



**Figures 13:** Local location map of the Federation Mine with underground development at mid-May 2024.

The Lancelot prospect area is located 8km east of the Hera Mine on EL7355, held by Peak Gold Mines Pty Ltd, a wholly owned subsidiary of Aurelia.

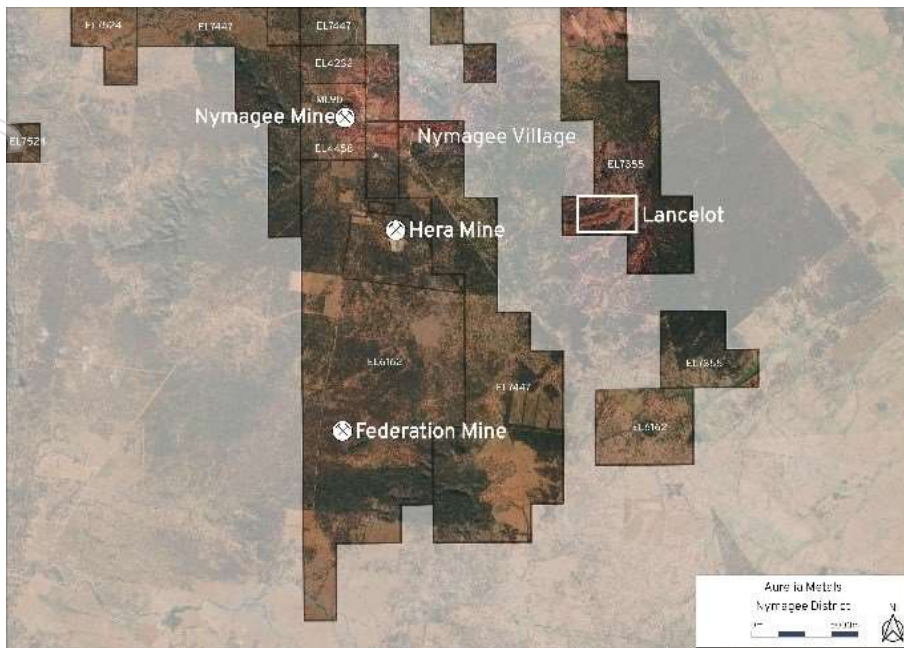
**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384





Figures 14: Regional location map of Federation Mine and the Lancelot prospect.

For personal use only

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

**This announcement has been authorised for release to the ASX by the Board of Aurelia Metals.**

For further information contact:

**Leigh Collins**

Group Manager Commercial and Investor Relations  
Aurelia Metals  
+61 7 3180 5000

**Media contact**

Michael Vaughan  
Fivemark Partners  
+61 422 602 720

## About Aurelia

Aurelia Metals Limited (ASX: AMI) is an Australian mining and exploration company with a highly strategic landholding, and two operating mines in New South Wales (NSW). The Peak Mine is in the Cobar Basin in western NSW, and the Dargues Mine is in south-eastern NSW. The Hera mining operation, also located in the Cobar Basin, has ceased and the surface facilities have been placed into care and maintenance.

In addition, Aurelia has two consented high grade development projects. The polymetallic Federation Project is currently under construction, with development of the Great Cobar copper deposit to follow.

In FY23, Aurelia produced 86,284 ounces of gold at a Group All-In Sustaining Cost of A\$2,315 per ounce. The Peak Mine's cost base benefits from substantial by-product revenue credits from base metal production (including zinc, lead and copper).

## Competent Persons Statement

The information in this report that relates to Exploration Results is based on, and fairly represents, information compiled by Mr. Todd McGilvray, M.Sc. (Econ. Geol.), who is a Member of the Australian Institute of Geoscientists and is a Registered Professional Geologist (10248) in Mineral Exploration and Mining. Mr McGilvray is a full-time employee of Aurelia and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.' Mr McGilvray consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

## APPENDIX – JORC CODE 2012

**Table 1:** JORC Code 2012

Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. AusIMM.

### Section 1 - Sampling Techniques and Data (Criteria in this section apply to all succeeding sections).

<p>Sampling techniques</p>	<ul style="list-style-type: none"> <li>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 downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</li> </ul>	<ul style="list-style-type: none"> <li>Surface diamond core drilling at Federation Mine was conducted by Mitchell Services Limited and Deepcore Drilling using PQ, HQ and NQ core samples.</li> <li>Surface soil samples were collected on east-west grid lines with 400m NS spacing and 100m EW spacing. Samples were collected using pick and shovel to the C Horizon and bottom of hole material to 2kg was collected and sieved to -2mm. Mechanical trailer mounted auger samples were collected where the C Horizon was concealed beneath palaeochannels or thick colluvial cover using the same procedure.</li> </ul>
	<ul style="list-style-type: none"> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	<ul style="list-style-type: none"> <li>Sampling and QAQC procedures are carried out using Aurelia Metal's protocols as per industry standard and best practice.</li> <li>Drilling is oriented perpendicular to the strike of the mineralisation as much as possible to ensure a representative sample is collected.</li> <li>Survey tools at each site are mainly north seeking gyro tools or overshot cameras where gyro tools can't be sourced.</li> <li>Soil and auger samples were collected using colour profiling of the C Horizon.</li> </ul>
	<ul style="list-style-type: none"> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>Diamond drilling core samples were collected at representative samples of 1 metre lengths at all sites with a minimum sampling interval of 0.2m and maximum of 1.0m. Core samples are ¼ cut for PQ or ½ cut for HQ/NQ size core to produce a 2-4kg sample. Core samples are dried, crushed and pulverised to 85% passing 75 microns. This is considered an appropriate method to homogenise the sample.</li> <li>Gold analysis is by 50g fire assay with AAS finish, (method Au - AA26) with a detection level of 0.01ppm.</li> <li>Base metals analyses use a 0.5g charge which is dissolved using aqua regia digestion (Method ICP41-AES) with detection levels of: Ag-0.2ppm, As-2ppm, Cu-1ppm, Fe-0.01%, Pb-2ppm, S-0.01%, Zn-2ppm. Overlimit analysis is by OG46 -</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

		<p>aqua regia digestion with ICP-AES finish. Gold samples greater than 1.0g/t are re-assayed by screen fire assay within a 10% population subset using the entire sample to improve accuracy, especially where coarse gold is present. Aurelia Metals sites utilise ALS Global Orange lab.</p> <ul style="list-style-type: none"> <li>Unconsolidated samples use standard assay procedures performed by a reputable assay lab using a supertrace method (ALS Global). Gold assays are by the AuME-ST44 method. Multi element assay is undertaken by aqua regia digestion and 53 elements reported using the ME-MS41L method.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>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, whether core is oriented and if so, by what method, etc.).</li> </ul>	<ul style="list-style-type: none"> <li>Drilling is by triple tube diamond coring which generally commences as PQ core until fresh rock is reached. The PQ rods are left as casing then HQ coring and subsequent NQ coring is used (particularly in wedging operations). All drillcore is oriented where possible using the Reflex ACTIII Ori tool.</li> <li>Auger drilling was undertaken using a mechanical trailer mounted auger drill unit using 4inch flights.</li> </ul>
Drill sample recovery	<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>	<ul style="list-style-type: none"> <li>Drill core Recovery and Rock Quality information are collected by competent field staff on all drill core.</li> <li>Measures taken to maximise recovery include triple tube drilling in soft or broken rock and slower drilling rates in poor ground.</li> <li>The relationship between sample recovery and grade has been assessed for diamond core samples through the use of conditional expectation plots and scatter plots. No obvious relationship exists and sample bias due to the preferential loss or gain of material is not considered to be significant to the resource estimate.</li> <li>Auger recovery is collected each meter to clear the collar and minimise collar contamination. The final bottom of hole sample is collected with care taken for the sample to remain isolated. Auger drilling can include contamination from various parts of the drillhole during drilling operations.</li> </ul>
Logging	<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 metallurgical studies.</li> </ul>	<ul style="list-style-type: none"> <li>Systematic geological and geotechnical logging is undertaken at all sites. Data collected includes: <ul style="list-style-type: none"> <li>Nature and extent of lithologies and alteration</li> <li>Relationship between lithologies and</li> </ul> </li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

- Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.
  - The total length and percentage of the relevant intersections logged.
- alteration
  - Amount and mode of occurrence of ore minerals
  - Location, extent and nature of structures such as bedding, cleavage, veins, faults etc. (core only)
  - Structural data (alpha & beta) are recorded for orientated core (core only)
  - Geotechnical data such as recovery, RQD, fracture frequency, qualitative IRS, microfractures, veinlets and number of defect sets. For some geotechnical holes the orientation, nature of defects and defect fill are recorded (core only)
  - Bulk density by Archimedes principle at regular intervals (core only)
  - Both qualitative and quantitative data is collected
- 100% of all recovered core is geologically and geotechnically logged, 100% of all recovered chips are geologically logged.
  - The geological and geotechnical logging is considered to have been carried out at a sufficient level of detail to support Mineral Resource estimation.
  - All drillcore at each site is routinely photographed and are stored in a server repository at each site.

**Sub-sampling techniques and sample preparation**

- If core, whether cut or sawn and whether Quarter, half or all core taken.
  - If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.
  - For all sample types, the nature, quality and appropriateness of the sample preparation technique.
  - Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.
  - Measures taken to ensure that the sampling is representative of the insitu material collected, including for instance results for field duplicate/second- half sampling.
  - Whether sample sizes are appropriate to the grain size of the material being sampled.
- Core is sawn with half or quarter core submitted for assay. Sampling is consistently on one side of the orientation line so that the same part of the core is sent for assay. PQ core is ¼ sampled, and HQ and NQ core is ½ sampled.
  - Samples are dried, crushed and pulverised to 85% passing 75 microns. This is considered to appropriately homogenise the sample to allow subsampling for the various assay techniques.
  - Matrix-matched Certified Standard Reference Materials and blanks are inserted at least every 25 samples to assess the accuracy and reproducibility. The results of the standards are to be within ±10% variance, or 2 standard deviations, from the known certified result. If greater than 10% variance the standard and up to 10 samples each side are re-assayed. ALS conduct internal check samples every 20 samples for Au and every 20 for base metals. Assay grades are occasionally compared with mineralogy logging

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

For personal use only

	<ul style="list-style-type: none"> <li>estimates. If differences are detected a re-assay can be carried out using the bulk reject or the assay pulp.</li> </ul>	<ul style="list-style-type: none"> <li>Systematic duplicate sampling is employed at each site and repeat samples are conducted on gold assay &gt;1g/t. Regular duplicates are taken at predetermined sample intervals (averaging 1:25 samples). Samples occurring in mineralised zones are duplicated at an increased rate of one sample every 15-20 samples.</li> <li>Sample sizes are appropriate for the material sampled based on Gy's Sampling Theorum.</li> <li>Bottom of hole sampling is carried out in auger drillholes and soils sampling by sieving to -2mm typically &lt;1m length. CRM's and field duplicates are inserted at a rate of 1 per 20 samples.</li> </ul>
Quality of assay data and laboratory test	<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>Standard assay procedures are performed by a reputable assay lab using a supertrace method (ALS Global). Gold assays are by the AuME-ST44 method. Multi element assay is undertaken by aqua regia digestion and 53 elements reported using the ME-MS41L method.</li> <li>No geophysical tools were used in the determination of assay results. All assay results were generated by an independent third-party laboratory as described above.</li> <li>Certified reference material or blanks are inserted at least every 20 samples. Standards are purchased from Certified Reference Material manufacture companies: Ore Research and Exploration, Gannet Holdings Pty Ltd and Geostats Pty Ltd. Standards were purchased in foil lined packets of between 10g and 100g. Different reference materials are used to cover high grade, medium grade and low grade ranges of elements: Au, Ag, Pb, Zn Cu, Fe, S and As. The standard names on the foil packages were erased before going into the pre-numbered sample bag and the standards are submitted to the lab blind.</li> </ul>
Verification of sampling and assaying	<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> </ul>	<ul style="list-style-type: none"> <li>All significant drilling intersections are verified by multiple Company personnel. The company standard for determining Significant Intersections is by a trigger value (5% Pb+Zn, 1% Cu and 2g/t Au) and intervals are weighted within a margin value which is half the trigger value to adequately represent a 'lens'.</li> <li>There has been no use of twinned holes at</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

For personal use only

		<p>any of the sites due to the widespread use of diamond drilling.</p> <ul style="list-style-type: none"> <li>• Drill hole data including meta data, any gear left in the drill hole, lithological, mineral, survey, sampling and occasionally magnetic susceptibility is collected and entered directly into site specific databases (Geobank) using drop down codes. When complete the logs are imported to each database with verification procedures employed such as interval crossover. Once assays are returned the logs are geochemically reviewed to assess the integrity of the logging.</li> <li>• Assay data is provided by ALS via .csv or .sif spreadsheets. The data is validated using the results received from the known certified reference material. Using an SQL based query the assay data is merged into the Nymagee District database.</li> <li>• Auger drillhole assays are reviewed to observe any significant trend changes and re-sampling is conducted if necessary to confirm results.</li> </ul>
Location of data points	<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>• Surface Drill hole collars are initially located using hand held GPS to <math>\pm 5m</math>. Upon completion collars are located with differential GPS to <math>\pm 5cm</math> picked up by mine surveyors.</li> <li>• Drill holes are downhole-surveyed from collar to the end of hole by drilling personnel using a downhole survey tool (Reflex). Downhole north-seeking gyroscopic survey instruments are regularly employed at each site to improve survey accuracies. Drill holes are surveyed by single shot camera during drilling at intervals ranging between 6-30m. All survey data for every hole is checked and validated by Aurelia Metals personnel before being entered into the database.</li> <li>• All coordinates are based on the Geodetic Datum of Australia 1994 and Map Grid Australia 1994 zone 55H.</li> <li>• Topographic control is considered adequate as it is based on a high precision Lidar survey completed over each area.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>• Data spacing for reporting of Exploration Results.</li> <li>• 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</li> </ul>	<ul style="list-style-type: none"> <li>• Due to the relatively complex nature of each of the ore bodies it has been determined to use a nominal drill spacing of 100m (unclassified), 50m (inferred), 25m (indicated) and 12.5m (measured).</li> <li>• The drill spacing is considered appropriate to support the complexity of the ore bodies</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

	<p>procedure(s) and classifications applied.</p> <ul style="list-style-type: none"> <li>Whether sample compositing has been applied.</li> </ul>	<p>and the level of confidence required at each mine site.</p> <ul style="list-style-type: none"> <li>Sample compositing is not applied at any of the sites.</li> <li>Auger drilling was used to substitute soils samples where the C Horizon could not be reached from conventional pick and shovel sampling. Samples were taken on a 400m x 100m grid which accurately reflects the size of typical ore deposits in the region and primary trend of geology.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Drilling is orientated to cross the interpreted, steeply dipping mineralisation trend at moderate to high angles from surface, and as close to perpendicular as possible from underground. Surface drillholes are drilled generally from the geological footwall although scissor holes have been employed from the hanging wall to constrain mineralisation. Estimated true widths for each significant interval are provided in Table 2.</li> <li>No known bias has been introduced due to drilling orientation.</li> <li>Auger drilling and soil sampling is designed to adequately cross the main geological trend. Mineralised structures are unknown at this point</li> </ul>
Sample security	<ul style="list-style-type: none"> <li>The measures taken to ensure sample security</li> </ul>	<ul style="list-style-type: none"> <li>Chain of custody is managed by Aurelia Metals. Samples are placed in tied calico bags with sample numbers that provide no information on the location of the sample. Samples are transported from site to the assay lab by courier or directly delivered by Aurelia Metals personnel.</li> </ul>
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data</li> </ul>	<ul style="list-style-type: none"> <li>Audits are routinely undertaken during resource estimation activities. A lab audit or contract performance meeting has been undertaken per quarter since the start of 2023.</li> </ul>

## Section 2 - Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties,</li> </ul>	<p>Federation</p> <ul style="list-style-type: none"> <li>The Federation deposit is located within Exploration Licence 6162 and Mining Lease 1862, owned 100% by Hera Resources Pty Ltd (a wholly owned subsidiary of Aurelia</li> </ul>

### For more information, contact us at:

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

For personal use only



	<p>native title interests, historical sites, wilderness or national park and environmental settings.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>	<p>Metals Limited).</p> <ul style="list-style-type: none"> <li>EL7355 is located 8km east of the Hera Mine and is 100% owned by Peak Gold Mines Pty Ltd (a wholly owned subsidiary of Aurelia Metals Limited).</li> <li>At the time of reporting there were no known impediments to operating in these areas.</li> </ul>
Exploration done by other parties	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<p>Federation and Lancelot</p> <ul style="list-style-type: none"> <li>The region has a 50+ year exploration history involving reputable companies such as Cyprus Mines, Buka, ESSO Minerals, CRAE, Pasminco, Triako Resources and CBH Resources. Previous exploration data has been ground-truthed where possible. Historic drill hole collars have been relocated and surveyed. YTC Resources (which changed its name to Aurelia Metals Limited) completed a total of four relatively shallow RC drill holes at the Federation prospect in 2013, prior to the discovery of high grade mineralisation in 2019.</li> </ul>
Geology	<ul style="list-style-type: none"> <li>Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul style="list-style-type: none"> <li>All known mineralisation in the area is epigenetic "Cobar" style. Deposits are generally structurally controlled quartz + sulphide matrix breccias grading to massive sulphide. In a similar fashion to the other Cobar deposits, the Federation prospect occurs to the west of the Rookery Fault, a major regional structure with over 300km strike length. The deposits are near the boundary of the Devonian Lower Amphitheatre Group and the underlying Roset Sandstone. Both units show moderate to strong ductile deformation with tight upright folding coincident with greenschist facies regional metamorphism. A well-developed sub vertical cleavage is present.</li> <li>Mineralisation at Federation occurs in several steeply dipping vein breccia/massive sulphide lenses developed in the centre of a broad NE-SW striking corridor of quartz-sulphide vein stockwork mineralisation. The mineralisation is hosted by fine-grained sedimentary rocks and is best developed within open upright anticline closures in areas of strong rheology contrast imposed by early stratiform alteration.</li> <li>Sulphide mineralisation identified at Federation includes sphalerite-galena±chalcopyrite-pyrrhotite-pyrite in veins and breccias. Gold distribution tends to be nuggetty, often present as visible gold</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

		<p>grains up to four millimetres in size. The majority of high-grade gold mineralisation at Federation (to date) is present in steeply plunging, short strike-length zones.</p> <ul style="list-style-type: none"> <li>EL7355 covers the western margin of the Ordovician Girilambone Basin. There are no known deposits in the vicinity of EL7355 however VHMS, Carbonate hosted base metal and orogenic gold deposits occur in the wider region.</li> </ul>
Drill hole Information	<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 of 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>All relevant drill hole data is included in the main body of the report.</li> </ul>
Data aggregation methods	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting 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.</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>Exploration results have been reported on a length-weighted basis. No top-cut or grade truncations have been applied to any assay results. Composite intervals are reported using a nominal trigger metal value of 5%Pb+Zn or 1% Cu or 2g/t Au and a margin value of half the trigger value to define the margin of the lens. Internal dilution is dynamic depending on the thickness of the lens and continuity of mineralisation where up to 3 metres has been allowed generally.</li> <li>Higher grade results that occur internal to the composited intervals as described above are included in this report. Higher grade intervals are only highlighted if there are areas within the composite that differ significantly from the overall grades. Reporting of the shorter intercepts allows a more complete understanding of the grade distribution within the mineralised zone.</li> <li>No metal equivalences are quoted in this report.</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

		<ul style="list-style-type: none"> <li>No data aggregation methods were used in the soil and auger sample results</li> </ul>
Relationship between mineralisation widths and intercept lengths	<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 (e.g. 'down hole length, true width not known').</li> </ul>	<p>Federation</p> <ul style="list-style-type: none"> <li>While the controls and geometry of mineralisation at Federation are locally structurally complex, the deposit has an overall ENE strike (070°) and a sub-vertical dip.</li> <li>Estimated true widths (ETW) for each significant interval are provided in each relevant Significant Intersection table.</li> </ul>
Diagrams	<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>See body of report.</li> <li>Soil samples and BOH Auger samples are displayed using Kernel Density Estimation methods to create Heatmaps. The range was 400m to adequately assess geological NS trends and the spectrum was limited to real values (displayed on each map) to ensure no aggregation was reported.</li> </ul>
Balanced reporting	<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>All drill results from the recent programs are given in this report or have been reported in full in previous announcements.</li> </ul>
Other substantive exploration data	<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>See body of report.</li> </ul>
Further work	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. 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>Future work is discussed in the body of the report.</li> </ul>

**For more information, contact us at:**

Level 17, 144 Edward Street  
Brisbane QLD 4000  
office@aureliametals.com.au

GPO Box 7  
Brisbane QLD 4001

+61 7 3180 5000  
aureliametals.com  
ABN: 37 108 476 384

For personal use only