

13 DEC 2022

## **Earth AI Commences Field Work at Fontency**

Artificial Intelligence focused exploration underway at the Fontenoy Project in search of critical and battery metals including Copper-Nickel-Cobalt-Platinum-Gold

Legacy Minerals Holdings Limited (ASX: LGM, "LGM", "the Company" or "Legacy Minerals") is pleased to announce the commencement of field work by its alliance partner, Earth AI.

## **Highlights**

- The Project has a known mineralised strike of at least 8kms with historical drilling having intercepted widespread disseminated and veined copper-gold mineralisation from surface.
- Renewed investigation of historical anomalous nickel (Ni) cobalt (Co) results<sup>1</sup> and potential for associated platinum group elements (PGE) mineralisation in association with known chromium (Cr), copper (Cu) and Ni occurrences is also underway.
- Preliminary work includes the identification of oxide copper mineralisation interpreted as malachite and chalcocite from undrilled historical workings (spot pXRF readings up to 27.54% Cu Sample 5996)<sup>i</sup>.

#### **Planned Alliance Work**

- Upon completion of the reconnaissance field work, a revised targeting assessment will be conducted prior to final field checking and drilling.
- This work is expected to be completed in Q1 2023 with drilling planned for Q1 2023.

## Earth AI – Artificial Intelligence Exploration Alliance<sup>2</sup>

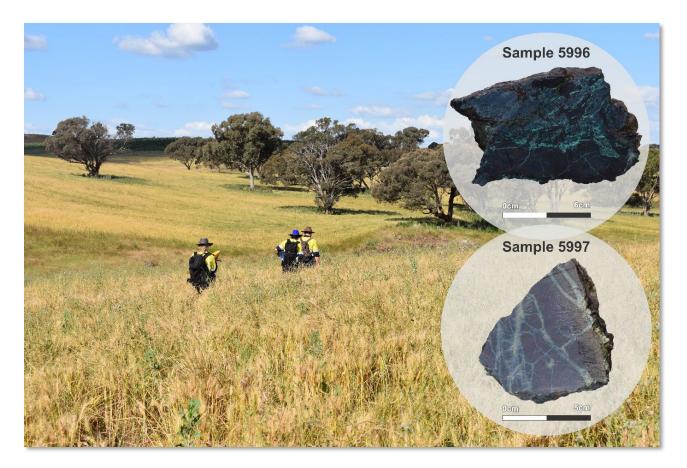
- The Earth AI Alliance aims to fast-track discovery across Fontenoy and Mulholland with up to \$4.5M AUD to be spent by Earth AI over 2 years.
- Unlike a 'classic JV' the alliance is success based with up to a 3% royalty earnt over the discovery area by Earth AI if a significant drilling discovery is made.
- LGM retains 100% ownership of all exploration licences.
- Subject to work conducted by Legacy Minerals, Earth AI has the option to purchase the relevant tenements from Legacy Minerals for \$1M USD and a 2% royalty to LGM.

## **Legacy Minerals maintaining focus at Bauloora**

This Alliance allows Legacy Minerals to maintain its focus at Bauloora which is considered by the Company to be the largest under-explored low-sulphidation epithermal gold-silver system in NSW with the potential for a major gold discovery.

<sup>&</sup>lt;sup>i</sup> Visual observations and handheld pXRF results are only used for preliminary assessment of element compositions, prior to the receipt of assay results from a certified laboratory.





**Figure 1:** Earth AI field team conducting field reconnaissance, geological mapping, soil and rock sampling. Rock sample 5996 collected from surface sub-crop contains malachite (visual estimate 10%) and chalcocite (visual estimate 8%) supported by spot pXRF readings of 27.54% Cu and 18.46% Cu. Rock sample 5997 exhibiting stockwork quartz-carbonate veins with chalcocite (visual estimate of 5% chalcocite)<sup>ii</sup>.

## **Management Comment Legacy Minerals Managing Director, Christopher Byrne said:**

"It's very exciting for Legacy Minerals to be part of a small group of companies utilising the power of artificial intelligence to assess and target prospective areas for drilling.

Our Exploration Alliance with Earth AI puts Legacy Minerals at the forefront of the exploration industry in utilising artificial intelligence and machine learning to increase discovery opportunities. Earth AI's vertically integrated approach and ownership of diamond drill rigs sets Earth AI apart from other AI explorers and gives them the capacity to drill test newly defined targets in quick succession.

The Fontenoy Project presents significant critical and battery metal opportunities with prospectivity for copper-nickel-cobalt-PGE's and gold and the company is extremely pleased with the impact Earth AI are already having on the ground. The critical and battery metals industry is a strongly growing market and there is increasing recognition of the need for exploration discovery rates to increase in order to meet the demand for these metals.

ii Visual observations and handheld pXRF results are only used for preliminary assessment of element compositions, prior to the receipt of assay results from a certified laboratory.



Page 2 of 12 | ABN 43 650 398 897 Level 7, 1 Margaret Street Sydney www.legacyminerals.com.au

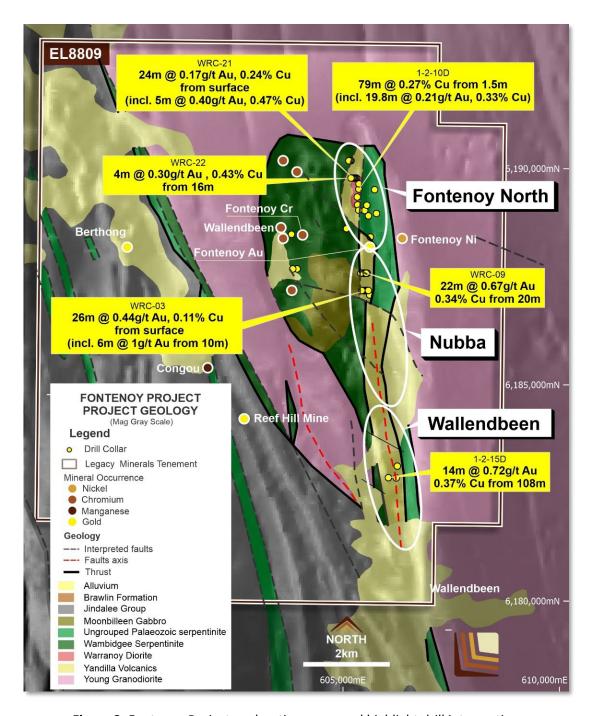


Figure 2: Fontenoy Project exploration areas and highlight drill intersections

## Fontenoy Project<sup>1</sup>

The Fontenoy Project contains a number of prospective units within the Project area which include the Yandilla Volcanics, Warrenoy Diorite and ultramafic rocks of the Wambidgee Serpentinite for copper-nickel and cobalt. Stratabound manganese mineralisation occurs in the Cambro-Ordovician Jindalee Group while the Wambidgee Serpentinite contains a number of chromite deposits, and this differentiated ultramafic sequence is prospective for both chromite and platinum group element (PGE) mineralisation. Disseminated and veined copper-gold mineralisation hosted within the Yandilla Volcanics has a strike length of approximately 8km. Mineralisation here is interpreted to represent McPhillamys-style volcanogenic hosted massive sulphide (VHMS) mineralisation, however the potential for intrusion related copper-gold mineralisation is being investigated.



The Project has had a significant amount of surface geochemical work completed with extensive soil sampling focused on the Yandilla Volcanics and a bulk cyanide leach stream sediment survey conducted across the tenement. Rock chip sampling has also been conducted across the tenement for Mn and Talc assessment and for Au-Cu mineralisation in the Yandilla Volcanics and Warrego Diorite. This work defined an 8km long Cu and Au soil anomaly centred over the Yandilla Volcanics with rock chips grading up to 0.73g/t Au and 0.47% Cu.

A dipole-dipole induced polarisation (DDIP) survey has been completed at 200m and 800m line spacing along the length of the Yandilla Volcanics. Further to this, ground electromagnetic (EM) survey traverses and airborne EM at 150m line spacing has also been completed by earlier explorers. IP surveying highlighted several known zones of Cu and Au mineralisation with a number of anomalies yet to be drilled.

A total of 16 diamond core holes for 4,014 metres and an additional 28 reverse circulation percussion (RC) drill holes for 1,667m have been historically completed. Drilling has confirmed soil anomalism is associated with broad Au-Cu mineralisation intersected along the entire 8km strike and provides encouragement for a number of drill ready target zones.

Historical Drill intercepts at the project include:

1-2-10D: **79m at 0.27% Cu** from 1.5m WRC9: **22m at 0.67g/t Au and 0.34% Cu** from 20m WRC21: **24m at 0.17g/t Au and 0.24% Cu** from surface WRC3: **26m at 0.44g/t Au and 0.11% Cu** from surface 1-2-15D: **14m at 0.72g/t Au and 0.37% Cu** from 108m

The large amount of historical data provides Earth AI a significant base of information to utilise in their artificial intelligence and machine learning software for the delivery of compelling drill targets in a data rich environment.



## **Earth AI Exploration Alliance**

Legacy Minerals has signed an Exploration Alliance Agreement (Agreement) with Earth AI covering its Fontenoy (EL8995) and Mulholland tenements (EL9330) (Strategic Alliance)<sup>2</sup>. The Exploration Alliance allows for a co-funding model, whereby Earth AI will contribute up to \$4.5M AUD of total exploration costs across the tenements over a two-year period, with an option to extend for a further year. Subject to a qualifying drilling intersection (as defined within the Alliance Agreement) being subsequently identified on any tenement, Earth AI Pty Ltd is entitled to a net smelter return royalty (Royalty) up to 3% in connection with a to be agreed upon area surrounding the discovery (Area of Interest). Legacy Minerals will retain 100% ownership over the tenements covered under the Agreement.

Legacy Minerals is under no obligation to explore, develop or mine any of the tenements during the period of the Strategic Alliance. However, whereafter the second anniversary of the Royalty Trigger Date, if no mineral resource has been defined and the combined annual exploration development and mining expenditure in the Area of Interest falls below \$250,000 USD, Earth AI will have the option to assume operational control and buy all of the Royalty Tenements that overlap with the single Area of Interest under the Minerals Royalty Deed, for a cash purchase price equal to \$1,000,000 USD plus a 2% net smelter royalty granted to the Legacy Minerals.

## **Earth AI Exploration Strategy**

EARTH AI is a vertically integrated metals exploration company based in San Francisco, USA. The Company's NSW based operations are at Young, 15km from Legacy Minerals' Fontenoy tenement. Earth AI plans to implement its artificial intelligence deposit targeting system to generate drill targets across the Company's tenements. Once identified, Earth AI will follow up with on ground geophysical and geochemical work before drill testing.



Figure 3: Earth Al's exploration approach and example of their diamond drill set up



## Approved by the Board of Legacy Minerals Holdings Limited.

#### For more information:

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## DISCLAIMER AND PREVIOUSLY REPORTED INFORMATION

Information in this announcement is extracted from reports lodged as market announcements referred to above and available on the Company's website <a href="https://legacyminerals.com.au/">https://legacyminerals.com.au/</a>. The Company confirms that it is not aware of any new information that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

This announcement contains certain forward-looking statements. Forward looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside of the control of Legacy Minerals Holdings Limited (LGM). These risks, uncertainties and assumptions include commodity prices, currency fluctuations, economic and financial market conditions, environmental risks and legislative, fiscal or regulatory developments, political risks, project delay, approvals and cost estimates. Actual values, results or events may be materially different to those contained in this announcement. Given these uncertainties, readers are cautioned not to place reliance on forward-looking statements. Any forward-looking statements in this announcement reflect the views of LGM only at the date of this announcement. Subject to any continuing obligations under applicable laws and ASX Listing Rules, LGM does not undertake any obligation to update or revise any information or any of the forward-looking statements in this announcement to reflect changes in events, conditions or circumstances on which any forward-looking statements is based.

#### **COMPETENT PERSON'S STATEMENT**

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Thomas Wall, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Wall is the Technical Director and a full-time employee of Legacy Minerals Pty Limited, the Company's wholly owned subsidiary, and a shareholder of the Company. Mr Wall has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 Wall consents to the inclusion in the report of the matters based on his information in the form and context in which it appears in this announcement.

## **REFERENCED DOCUMENTS**

1 Company's Prospectus dated 28 July 2021 lodged 9 September 2021 (ASX: LGM)

2 LGM ASX 3 May 2022: Strategic Exploration Alliance with AI Explorer

## **LEGACY MINERALS INTERACTIVE INVESTOR HUB**

Engage with us directly by asking questions, watching video summaries, and seeing what other shareholders have to say about this and past announcements at our Investor Hub

https://investorhub.legacyminerals.com.au/



## **About Legacy Minerals**

Legacy Minerals is an ASX listed public company that has been involved in the acquisition and exploration of gold, copper, and base-metal projects in the Lachlan Fold Belt since 2017. The Company has six wholly owned and unencumbered projects that present significant discovery opportunities for shareholders.

#### Au-Cu (Pb-Zn) Cobar (EL8709, EL9256)

Undrilled targets next door to the Peak Gold Mines with several priority geophysical anomalies Late time AEM conductors, IP anomaly, and magnetic targets Geochemically anomalous - gold in lag up to 1.55g/t Au.

#### Au-Ag Bauloora (EL8994, EL9464)

A 27km² hydrothermal alteration area containing lowsulphidation epithermal-style gold silver targets. Historical bonanza grades at the Mt Felstead Prospect included face sampling up to 3,701g/t Ag, 6.9g/t Au, 29% Pb, 26% Zn, and 6.4% Cu.

#### Cu-Au Rockley (EL8296)

Prospective for porphyry Cu-Au and situated in the Macquarie Arc Ordovician host rocks the Project contains historic high-grade copper mines that graded up to 23% Cu.

#### Au Harden (EL8809, EL9257)

Large historical high-grade quartz-vein gold mineralisation open along strike and down plunge. Significant drill intercepts include **3.6m at 21.7g/t Au** 116m and **2m at 17.17g/t Au** from 111m.

#### Au-Cu Fontenoy (EL8995) EARTH AI-Alliance

The Project exhibits a greater than 8km long zone of Au and Cu anomalism. Significant drill intercepts include 79m at 0.27% Cu from 1.5m with numerous untested anomalies along the 8km strike length.

#### Sn-Ni-Cu Mulholland (EL9330) EARTH Al-Alliance

Associated polymetallic mineralisation. There are several tin and nickel occurrences in the Project area with trends up to 2.6km defined in drilling. Significant drill intercepts include **44m at 0.45% Ni.** 

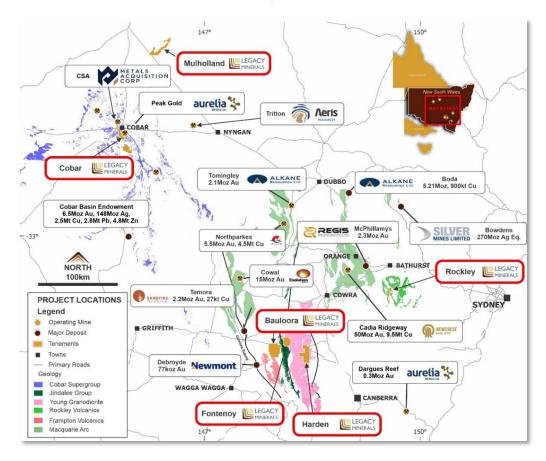


Figure 4: Legacy Minerals Tenements, NSW, Australia



## Appendix 1 – JORC Code, 2021 Edition Table 1

### **Section 1 Sampling Techniques and Data**

Section 1 Sam	Section 1 Sampling Techniques and Data		
Criteria	JORC Code Explanation	Commentary	
Sampling Techniques	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 handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	Rock chip and grab samples were taken from numerous locations throughout the prospect areas. A handheld XRF analyser was used to obtain spot analyses. The unit is a 2019 Olympus Vanta pXRF.	
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	The purpose of the rock chip samples was to establish the tenor of any mineralisation visible in outcrop and float. Therefore, the samples are biased towards mineralised samples. This is appropriate for this type of work.	
		The handheld pXRF results are only used for preliminary assessment of element compositions, prior to the receipt of assay results from the certified laboratory. Samples subjected to pXRF analysis did not undergo any sample preparation procedures.	
	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 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 (e.g., submarine nodules) may warrant disclosure of detailed information.	Samples weighing up to several kilograms were taken.	
Drilling techniques	Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., core diametre, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is oriented and if so, by what method, etc).	Not Applicable. No drilling conducted.	
	Method of recording and assessing core and chip sample recoveries and results assessed.	Not Applicable. No drilling conducted.	
Drill sample	Measures taken to maximise sample recovery and ensure representative nature of the samples.	Not Applicable. No drilling conducted.	
recovery	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.	Not Applicable. No drilling conducted.	
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.	Geological logging is carried out on all rock chips with lithology, alteration, mineralisation, structure and veining recorded.	
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Logging of rock chips records lithology, mineralogy, mineralisation, structures, weathering, colour and other noticeable features. Rock chips are occasionally photographed for reference.	
	The total length and percentage of the relevant intersections logged.	Not Applicable. No drilling conducted.	
Sub-sampling techniques and	If core, whether cut or sawn and whether quarter, half or all core taken.	Not applicable. No drilling conducted	



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Audits or reviews	The results of any audits or reviews of sampling techniques and data.	This is not material for these Exploration Results.
		The Company has in place protocols to ensure data security.
		Sample pulps are returned to site and stored for an appropriate length of time.
Sample security	The measures taken to ensure sample security.	All samples are bagged in calico sample bags before being grouped into polyweave bags and transported to ALS Minerals Laboratory in Orange by Legacy Minerals personnel. All sample submissions are documented via ALS tracking system with results reported via email.
structure	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.	Not Applicable. No drilling.
Orientation of data in relation to geological	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	Not Applicable. No drilling.
	Whether sample compositing has been applied.	No compositing has been applied to the exploration results.
	continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample compositing has been applied.	

## **Section 2 Reporting of Exploration Results**

(Criteria in this section apply to all succeeding section)

Criteria	JORC Code Explanation	Commentary
Mineral Tenement and Land Status	Type, name/reference number, location and ownership including agreements or material issues with third parties including joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	The Fontenoy Project is comprised of EL8995. The license is owned 100% by Legacy Minerals Pty Ltd (a fully owned subsidiary of Legacy Minerals Holdings Limited) and part of the Company's exploration alliance with Earth AI. There are no royalties or encumbrances over the tenement areas.
	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 land is primarily freehold land. There are no native title interests in the license area.
Exploration Done by Other Parties	Acknowledgment and appraisal of exploration by other parties.	Pacminex Pty Ltd – conducted soil and rock chip sampling, electro-magnetic (EM) and induced polarization (IP) surveying which were all concentrated on the Fontenoy Prospect. 16 cored drill holes were completed in 1970.  Billiton Australia Ltd (Shell Australia Ltd) – conducted reassaying of historical core, a tenement wide bulk cyanide leach stream sediment survey, and rock chip sampling.  Michelago Resources NL – detailed airborne magnetic/radiometric survey, rock chip sampling, soil sampling, and 28 RC drill holes.  Alloy Resources - mapping, rock chip sampling and gradient array induced polarisation surveys focused on Mn mineralisation.  Bushman Resources Pty Ltd – completed rock chip sampling, mapping, and hyperspectral work of selected historical drill core.
Geology	Deposit type, geological setting and style of mineralisation	The Fontenoy Project contains a number of prospective units within the Project area include the Yandilla Volcanics, Warrenoy Diorite and ultramafic



Drill hole	A summary of all information material to the understanding of the exploration results including tabulation of the following information for all Material drill holes:  • Easting and northing of the drill hole collar • Elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar • Dip and azimuth of the hole	rocks of the Wambidgee Serpentinite for copper- nickel and cobalt. Stratabound manganese mineralisation occurs in the Cambro-Ordovician Jindalee Group while the Wambidgee Serpentinite contains a number of chromite deposits, and this differentiated ultramafic sequence is prospective for both chromite and platinum group element (PGE) mineralisation. The Yandilla volcanics are prospective for VHMS mineralisation. Not Applicable. No drilling.
Information	<ul> <li>Down hole length and interception depth</li> <li>Hole length</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>	Not Applicable. No drilling.
Data aggregation methods	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.	Not applicable. No aggregation.
	Where aggregated 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.	Not applicable. No drilling.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	Not applicable. No metal equivalents being reported.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of exploration results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect.	Not applicable. No drilling.
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plane view of drill hole collar locations and appropriate sectional views.	Refer to Figures in body of text.  A prospect location map are shown in the Company's Prospectus dated 28 July 2021 and within the body of this report.
Balanced Reporting	Where comprehensive reporting of all Exploration Results is not practical, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	All assay results have been reported.  Reports on historical exploration can be found in the Company's Prospectus dated 28 July 2021.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observation; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock	All material or meaningful data collected has been reported.



# characteristics; potential deleterious or contaminating substances. Further Work The nature and scale of planned further

The nature and scale of planned further work (e.g., 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.

See body of report.

See figures in body of report.

Further exploration is discussed in the announcement and will be planned based on ongoing geochemical and geophysical results and geological assessment of prospectivity.

