ASX RELEASE | 8 February 2023 **| ASX:C1X**

Next phase of exploration set to start at Orange East gold project in NSW

Highlights:

- **On-ground soil geochemical sampling and field mapping activities have commenced on EL8807 at Cosmos' Orange East Gold Project, NSW.**
- **The current programme is the first phase of systematic exploration to take place this field season and comes ahead of the impending air core (AC) drilling at the Quintons prospect, which is expected to start in the next 7 – 10 days.**
- **Soil sampling will aim to identify new geochemical targets within a structural setting analogous to that observed at the nearby +2Moz McPhillamys' gold deposit.**
- **The Orange East project covers an area of ~100km^2 and is located in the highly prospective and mineralised Lachlan Fold Belt along strike from McPhillamys.**
- **The area is highly prospective for McPhillamys-style orogenic gold, VHMS and porphyry-style gold-copper mineralisation.**

Cosmos Exploration (ASX: C1X) ("Cosmos" or "the Company") is pleased to announce the commencement of field activities at its Orange East Gold Project in NSW.

The Company has started its initial exploration program focusing on soil sampling and mapping ahead of the anticipated Quintons Air Core and Reverse Circulation (AC/RC) drill program set to commence within the next 7-10 days. The reconnaissance style soil and field mapping exploration activities will run in conjunction with the drilling throughout February 2023.

Cosmos Exploration Executive Chairman, **Jeremy Robinson said**:

"I am thrilled to announce the commencement of our expanded exploration activities at the Orange East Gold Project. We are eager to see the results of our efforts and remain confident in the success of this project."

Exploration Activities

The soil geochemical programme is designed to infill the broad spaced, 200m spaced pXRF soil samples completed over the Quintons prospect and explore the highly prospective untested areas proximal to the structural intersection of the Godolphin fault and NE splay structure. This structural setting is analogous to that observed at the +2Moz McPhillamys deposit[1] 10km to the SE (Figure 1).

The soil and field mapping programs will be conducted throughout February in conjunction with the upcoming AC/RC drill program at the Quintons prospect. The reconnaissance style soil geochemical

[1] Refer to Cosmos Prospectus lodged on 29 November 2021 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02459360-6A1065677?access_token=83ff96335c2d45a094df02a206a39ff4

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program and mapping is expected to provide valuable information on the mineralisation and potential surrounding the Quintons Prospect at the Orange East Gold Project. In addition, the results of this program will be used to guide the Company's exploration activities and to determine the best approach for future drilling activities.

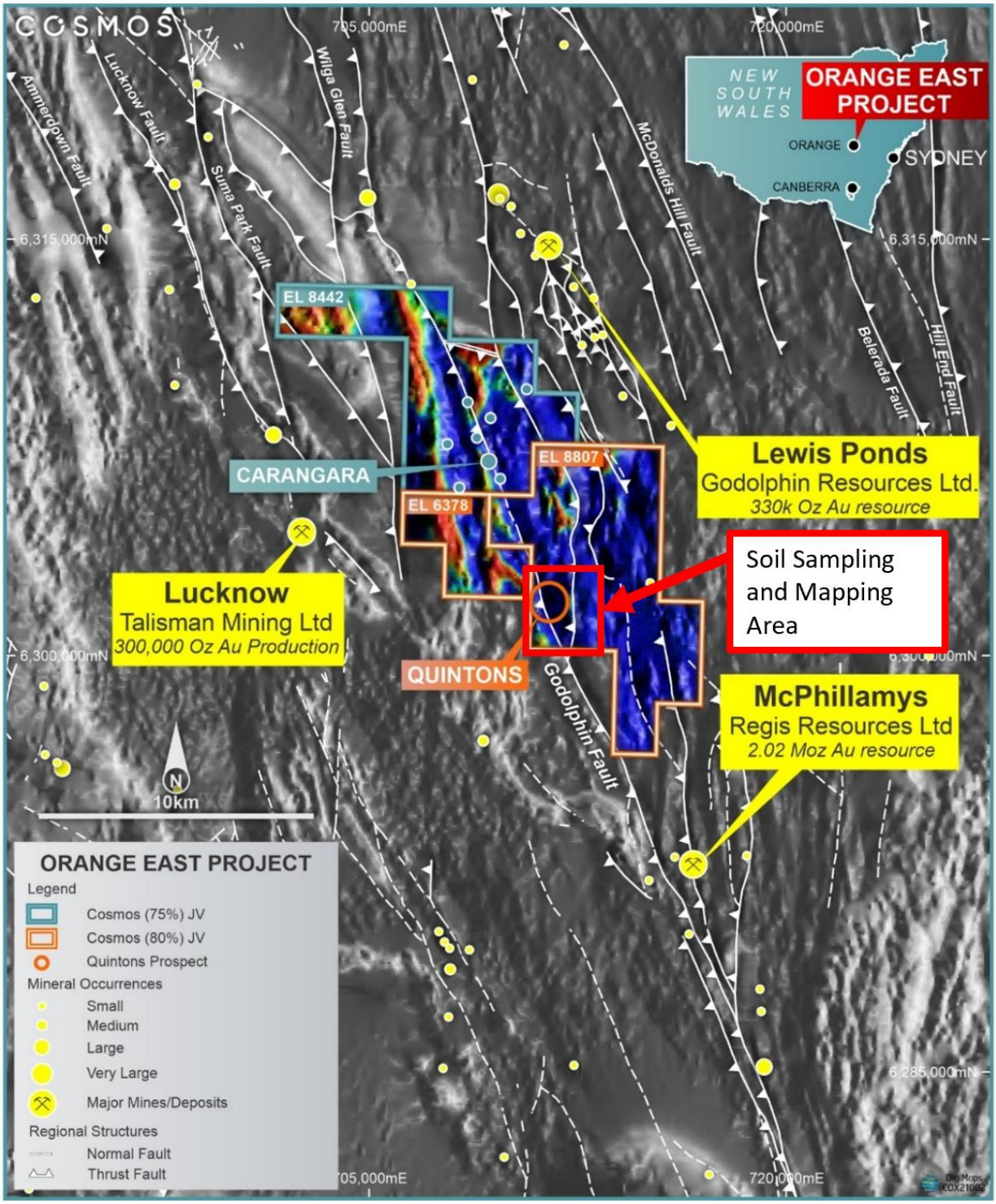


Figure 1 *– Orange East Project Regional Geological Setting over magnetics with major regional structures and mineral deposits showing current field mapping and geochemical survey area (red).*

In August 2022, Cosmos agreed to acquire an 80% interest in adjoining tenements (EL8807 and EL6378)[2], located immediately south of its Orange East tenement (EL8442) and 10km along strike from Regis Resources NL's +2Moz McPhillamys gold deposit (Figure 2).

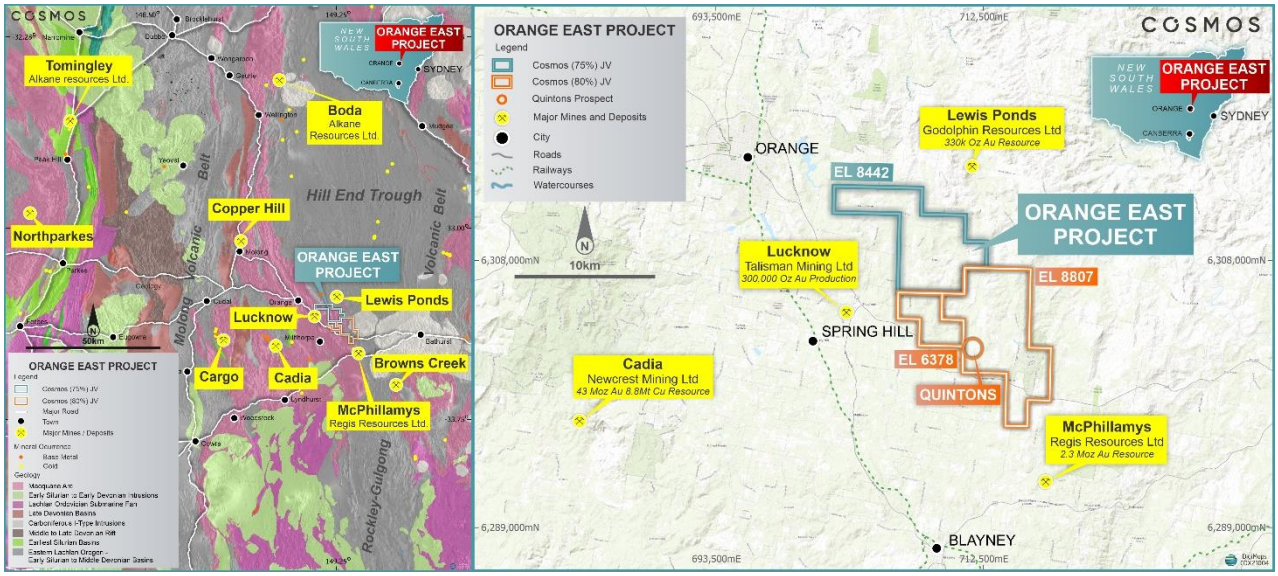


Figure 2 *– Orange East Project Regional Geological Setting and Mineral Deposits (left) and base map (right) showing major towns and infrastructure.*

The tenements contain extensions of highly prospective Anson formation (host to McPhillamys) and the mineralised Godolphin fault. The Quintons host lithology and structural position are analogous to the McPhillamys deposit (Figure 2).

The Quintons Prospect has not been drill tested to date and is the focus for Cosmos as part of its maiden exploration campaign. In parallel with the drill program, the Company also intends to extend the soil/auger coverage across EL8807, targeting structural domains withing prospective lithologies. Large areas of EL8807 were last sampled by BHP in 1971, collecting stream sediments. The Company believes there are opportunities in these areas to re-evaluate the prospectivity using low-detection soil sampling technologies and methods.

Quintons

The Quintons Prospect is hosted by the volcaniclastic sediments of the Anson Formation and occurs at the favourable structural intersection of the regionally significant and mineralised Godolphin fault and adjoining north-south trending splay structure. This structural position and host stratigraphy are analogous to the McPhillamys deposit (2.02Moz Au Reserve), located ~10km to the south-east of the Quintons Prospect (Figures 2 & 3).

[2] Refer to Cosmos announcement on 30 August 2022https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02560726-6A1106776?access_token=83ff96335c2d45a094df02a206a39ff4

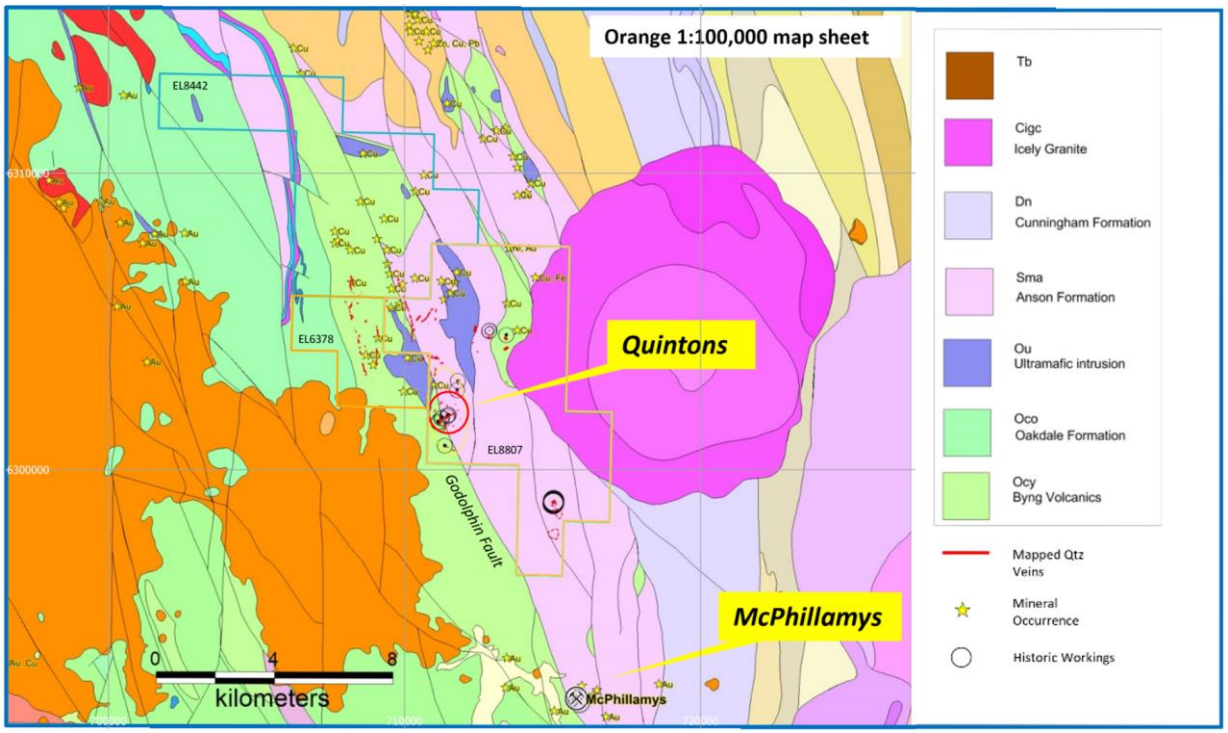


Figure 3 *– Orange 1:100 000 Geology Map Sheet with mineral occurrences and historic workings (EL8807 only).*

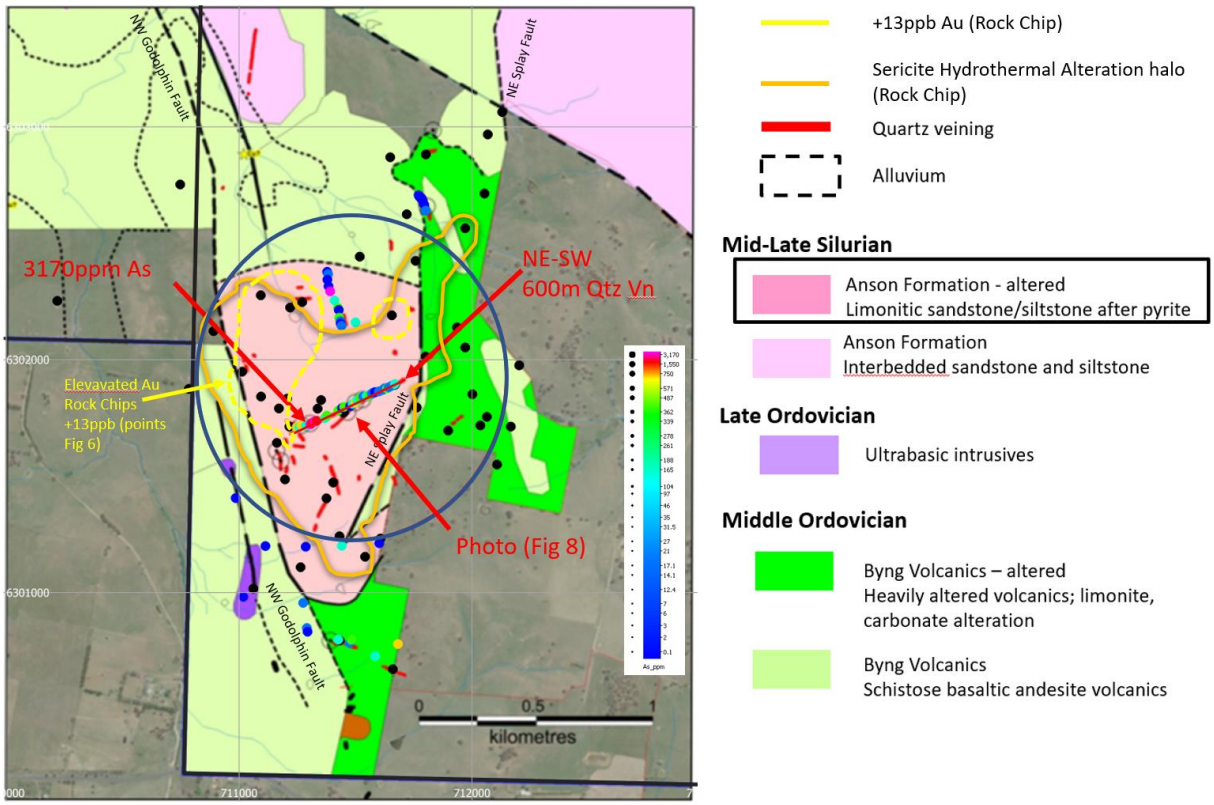


Figure 4 *– 1:5000 Prospect Scale Geology Map – After B Stevens 2012 with Rock Chip Assays coloured by As values, max value 3170 ppm As (also refer to Figure 6 for Au, Bi & Sb values) & photo location (Figure 8). Blue Circle for reference on Fig 6 & 7*

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The Quintons prospect is defined by abundant multi-directional quartz veins up to 600m in length and 7m in width containing gossanous rocks and a broad 1km x 1km moderate to low As-Bi-Sb-Au geochemical anomaly in soil and rock chips. Rock chip samples have returned maximum values of arsenic up to 3,170ppm, 80 ppb Au, 15.75ppm Bi & 279ppm Sb[3] (Figures 3 & 4).

The project is highly prospective for structurally controlled, orogenic and hydrothermally associated McPhillamys style gold mineralisation, Cu-Au Porphyry Style mineralisation (e.g., world-class Cadia Deposit), and Cu-Au VHMS (Volcanic Hosted Massive Sulphide) deposits as indicated by past exploration.

This announcement has been authorised by the Board of Cosmos Exploration Limited.

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[3] Refer to ASX announcement on 16 November 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02598504-6A1122342?access_token=83ff96335c2d45a094df02a206a39ff4

About Cosmos Exploration

Cosmos Exploration (ASX: C1X) is an ASX listed and Australian focussed Nickel-Copper-PGE and Gold-Copper explorer focussed on making world class discoveries at both its highly prospective Byro East Nickel-Copper-PGE Project located in Western Australia and Orange East Gold Project located in New South Wales.

Byro East (100% Cosmos) was identified by RareX prior to the Julimar Discovery and has potential for mafic-ultramafic intrusion related nickel-copper and PGE mineralisation.
Orange East (75% Cosmos) is an advanced exploration project located on the boundary between the Molong Arc and Hill End Trough within the Lachlan Fold Belt, a major mineral province, within a similar geological setting and along strike from the multi-million-ounce McPhillamys Gold Mine.

Competent Person Statement

This report's information related to Exploration Results is based on information and data compiled or reviewed by Mr Kristian Hendricksen. Mr Hendricksen is an employee and shareholder of Cosmos Exploration Limited (Cosmos) and is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM).

Mr Hendricksen has sufficient experience relevant to the style of mineralisation under consideration and to the activities undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Accordingly, Mr Hendricksen consents to the inclusion of the matters based on the information compiled by him, in the form and context it appears.

Information on historical results outlined in this announcement is contained in the Independent Geologist Report within Cosmos' Prospectus dated 20 September 2021, released in an ASX announcement on 29 November 2021.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases. The form and context of the announcement have not materially changed. This announcement has been authorised for release by the Board of Cosmos Exploration Ltd.

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