3 July 2025

MAIDEN EXPLORATION PROGRAM TO COMMENCE IMMINENTLY AT HORSE HEAVEN GOLD, ANTIMONY, SILVER, TUNGSTEN PROJECT IN THE U.S.

Work will begin immediately following final preparations at Resolution's Horse Heaven Project. Located directly adjacent to the NASDAQ-listed Perpetua Resources Corp (PPTA.NAS) $2 billion Stibnite[1] Gold Mine, the planned exploration is designed to fast track the generation of high priority targets for drill testing.

Highlights

- Resolution Minerals to commence its maiden exploration program at the Horse Heaven Antimony-Gold-Silver-Tungsten Project in Idaho, USA this month.
- Resolution Minerals has entered into a binding agreement to acquire the Horse Heaven Gold (Au), Antimony (Sb), Silver (Ag), Tungsten (W) Project (**Horse Heaven** or the **Project**), located in the historical Stibnite Mining District of Valley County, central Idaho.
- As a sign of confidence, Resolution Minerals has agreed to expend funds on these preparatory exploration activities in advance of completing its acquisition of the Project (anticipated to occur in late July 2025 following the shareholders' meeting to approve the acquisition that is scheduled for 25 July 2025). This early preparation allows for drilling to commence in August.
- The key objective of the upcoming exploration program is to determine the true extent of the surface mineralisation at both the Golden Gate and Antimony Hill Fault Zones, which remain open ended. In the process, the Company intends generating targets for its first phase drilling.
- Antimony was produced at Horse Heaven during World War I and World War II, highlighting the Project's strategic significance as a potential source of military-grade antimony during periods of global conflict.
- Tungsten was produced and milled sporadically at Horse Heaven from the 1950's to the 1980's.
- Maiden exploration program will target highly-prospective historic anomalies and aim to determine extensions of previously-identified mineralisation that can be incorporated into future exploration plans.
- RML aims to significantly expand its resource base at Horse Heaven through the application of modern exploration technologies including a combination of deeper RC and diamond core drilling, soil geochemistry and selective geophysical techniques to define additional drill targets at Horse Heaven.
- The U.S. currently has no domestic antimony production and is 100% reliant on imports, making Horse Heaven strategically very well positioned to potentially address the long-term antimony supply shortage if progressed through to production
- RML has commenced U.S. government engagement to explore potential access to various federal programs and incentives to fast-track permitting approvals and U.S. Department of Defence funding grants for Horse Heaven.
- U.S. OTC listing is progressing well, and further updates will be provided imminently.

[1] There is no guarantee that mineralisation similar to Stibnite Gold Project will be identified. Readers are cautioned that the presence of mineralisation at nearby projects is not necessarily indicative of mineralisation on the Horse Heaven Project.

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Resolution Minerals Ltd (**Resolution Minerals, RML** or the **Company**) (**ASX: RML**) is pleased to announce that a surface exploration mapping and sampling program will begin imminently in early July 2025 on the Horse Heaven Antimony-Gold-Silver-Tungsten Project in Idaho, USA.

Horse Heaven is well-situated in the Yellow Pine Mining District, sharing its eastern boundary with Nasdaq-listed antimony giant Perpetua Resources' Stibnite Gold Project[2]. Stibnite hosts a 4.8M ounce Gold reserve and a significant endowment of antimony and tungsten.

Key objectives of this maiden campaign include:

- ✓ Extensive mapping and sampling at the Golden Gate Fault Zone to expand geologic knowledge and identify extensions of potential mineralisation to both the north and south of historic drilling;
- ✓ Additional mapping and sampling at Antimony Creek to expand geologic knowledge and assist in identifying sites for future drilling;
- ✓ Initial mapping and sampling at the Vibeka Creek target area, located immediately east of Golden Gate;
- ✓ Confirming drill sites for planned August drill program and identifying potential locations for future drill programs; and
- ✓ Informing the upcoming geophysical program and drill targeting.

Craig Lindsay, Resolution Minerals CEO elect of U.S. Operations, commented:

"*This maiden exploration program represents a key step forward in progressing our flagship U.S.-focused critical metals development strategy. The Horse Heaven Project boasts a strong historical production legacy, is well-located adjacent to the US$2.2B Stibnite Mine development and represents significant blue-sky potential for investors. Our fieldwork will focus on confirming historical data, assessing the location and state of previous workings, and gaining insight into the broader geological footprint, which is analogous to Perpetua's Stibnite Project*[2]."

[2] There is no guarantee that mineralisation similar to Stibnite Gold Project will be identified. Readers are cautioned that the presence of mineralisation at nearby projects is not necessarily indicative of mineralisation on the Horse Heaven Project.

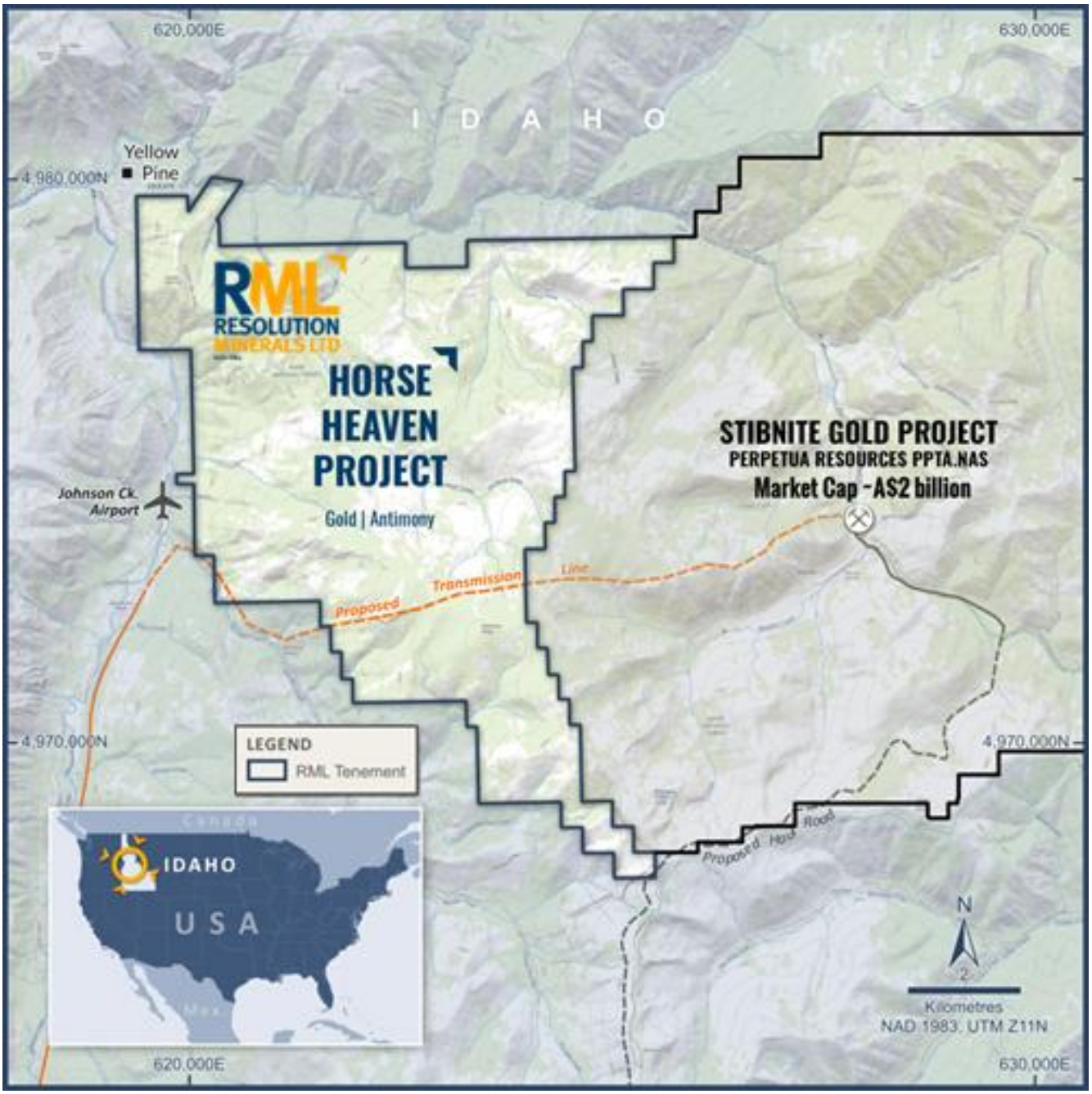

Figure 1: Location plan of the Horse Heaven Project. Note that the coordinates are a metres north and east metric system (not latitude/longitude) centric to this part of North America.

Background

Horse Heaven hosts two existing and high priority gold, antimony, silver, and tungsten prospect areas: the **Antimony Ridge Fault Zone** and the **Golden Gate Fault Zone**.

Golden Gate & Antimony Ridge include past-producing antimony, tungsten, and artisanal gold mines.

Antimony Ridge Fault Zone (ARFZ)

The Antimony Ridge Fault Zone has an approximate strike length of 1.2km and hosts known Au-Sb-Ag-W mineralisation associated with hydrothermally altered and sheared granodiorite. Preliminary shallow drilling, trench mapping and rock chip channel sampling have returned significant gold and antimony results.

- Antimony, gold and silver mineralisation is exposed at surface along 500m of historical trenching.
- 61 rock samples were systematically collected in 2022 and 2023, primarily consisting of chip transects across strike of mineralisation.
- Over 60% of rock samples (n=61) > 1 g/t Au, with up to 5.9 g/t Au, 19% Sb and 367 ppm Ag.
- Significant antimony and silver associated with silica veins and replacements occur in ridgetop and lower trench areas.
- Structural mapping supports continuation of system to NNE, oblique to NE direction of trenches.
- Antimony Ridge shear zone may represent parallel structure to the Golden Gate shear zone, 1.6km to the west.
- Limited historical drilling demonstrates along-strike continuity; untested at depth.

Golden Gate Fault Zone (GGFZ)

The Golden Gate Fault Zone has an approximate strike length of 3.5km and hosts the Golden Gate Hill target. It hosts known disseminated gold mineralisation, like the Antimony Ridge Fault Zone, associated with hydrothermally altered and sheared granodiorite. This prospect has received more drilling than the ARFZ, but the drilling is shallow and still of a preliminary nature. Exploration to date has returned significant gold. Antimony and tungsten were not tested in historic drill sample analysis.

- Historical RC drilling in 1986, 1987, 1994 reported historical gold assays indicating intercepts of gold mineralisation, including:
  - GGR-31: 36.6m @ 1.51 g/t Au.
  - GGR-32: 71.6m @ 1.37 g/t Au.
  - GGR-33: 59.4m @ 1.03 g/t Au.
- Established gold mineralisation in soils throughout entire 3.5km length of the Golden Gate Fault Zone.
- Historic drilling targeted shallow, oxide mineralisation; all holes were suspended at oxide/sulphide boundary as companies were only looking for open-pit, heap leachable ore.
- No historic holes longer than approx. 170 metres (e.g. 500 feet); the real depth was much less as all holes drilled on a dip of approximately 50 degrees.
- Golden Gate Ridge currently is a large, open-ended (in every direction) ore body that begins at surface.

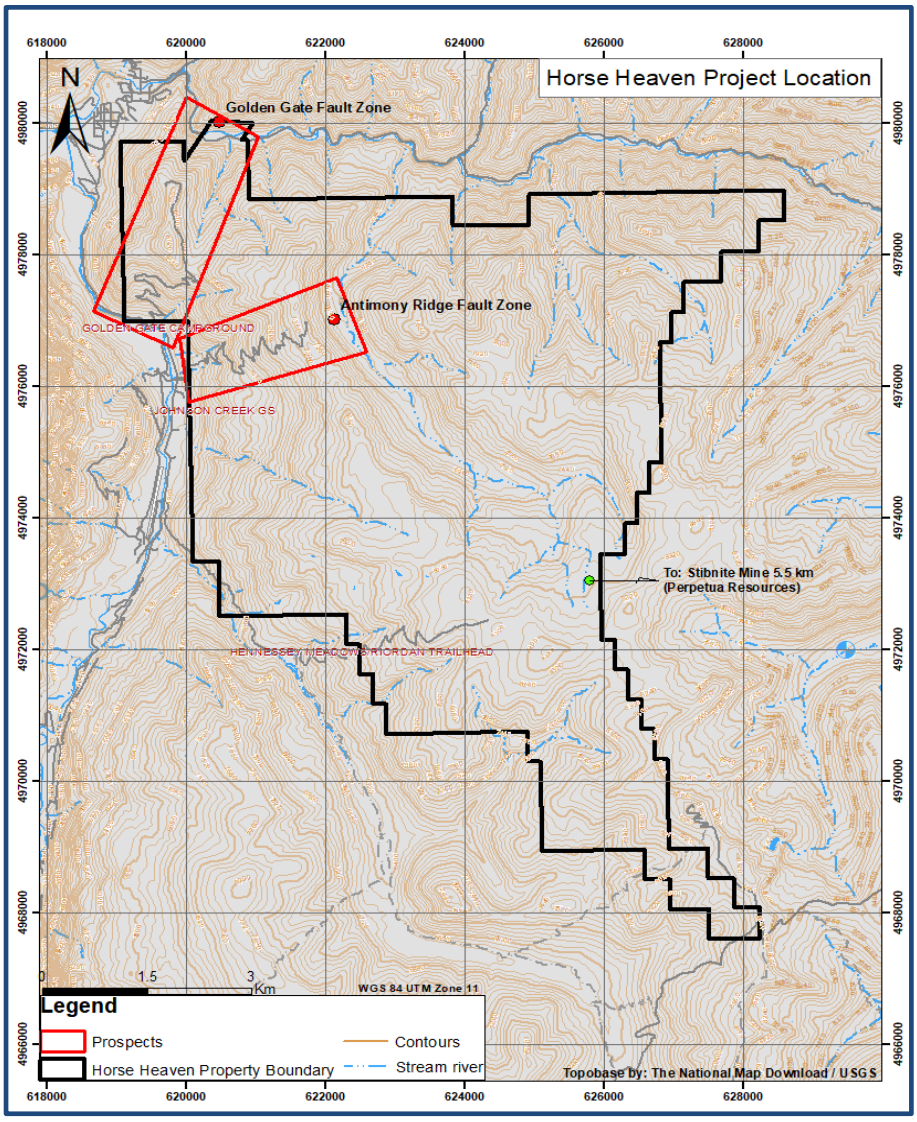

Figure 2: Topographic plan of the Horse Heaven Project area, showing the location of the two high-priority areas, the Antimony Ridge Fault Zone and the Golden Gate Fault Zone.

Planned Exploration Program

A surface exploration program has been designed to follow-up on historic anomalies and look for extensions of mineralisation that can be incorporated into future exploration plans.

The surface exploration program of mapping and sampling will precede the exploration drill program due to begin in early August 2025, notwithstanding the receipt of a permit from the United States Forest Service expected imminently, and will comprise the following:

Golden Gate

- Systematic sampling of rock exposures along the flanks, and along the interpreted north and south extensions of the Golden Gate Fault Zone (GGFZ) on Golden Gate Hill.
- Mapping and rock sampling of outcrops around Golden Gate Hill to follow up on historic geochemical soil and rock sample anomalies.

Antimony Ridge

- Mapping and rock sampling on the interpreted continuation of the Antimony Ridge Fault Zone (ARFZ) to the north-east and south-west along strike from identified mineralisation in historic trench workings.
- Soil sample traverses across the historic trenches on Antimony Ridge outside areas of legacy disturbances to support mineralised system continuity.

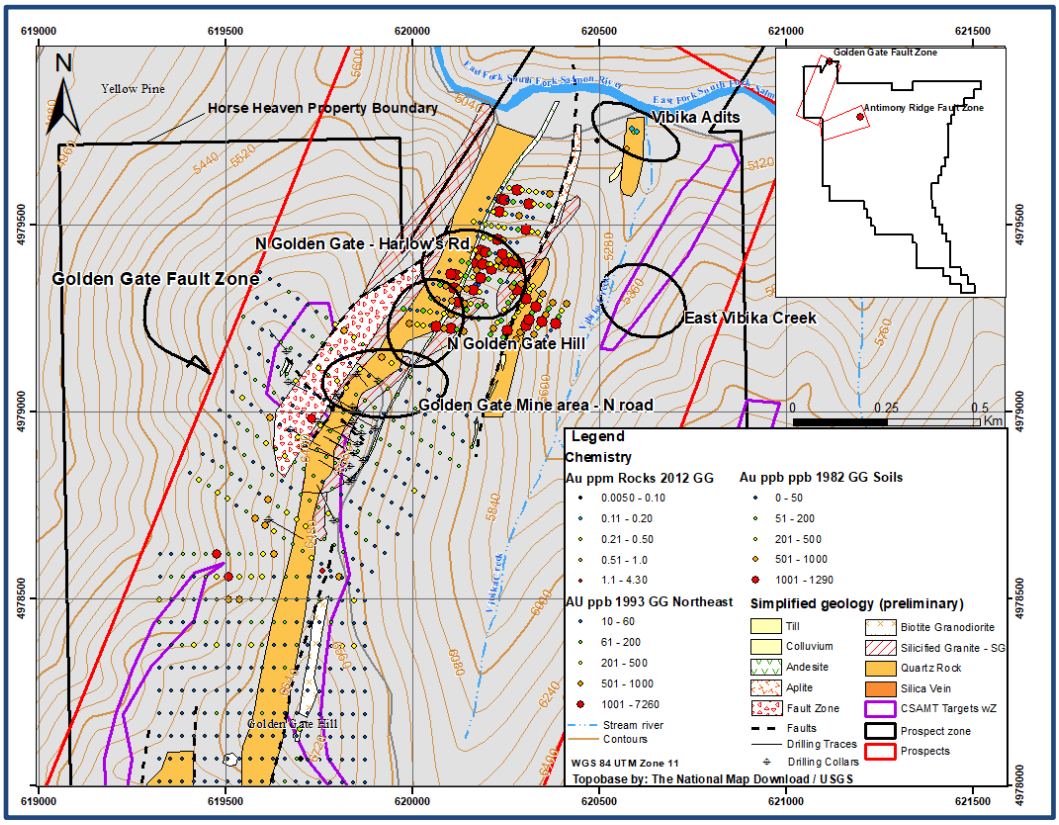

Figure 3: Topographic plan of the northern part of the Golden Gate Fault Zone, showing soil sample grid locations, colour-coded soil gold assay results (in ppb) and drill hole traces. Refer to detailed legend. Note that all soil sample assay results are included in the Company's ASX announcement dated 11 June 2025.

<u>Golden Gate Exploration</u>

Surface exploration mapping and sampling at Golden Gate (GG) will be concentrated along a broad northeast-southwest trending corridor (Figure 2) that parallels the GGFZ. The program will include the following:

- <u>Golden Gate Mine area – northern end</u>

  Systematic rock sampling and mapping will be conducted through exposures on the northern side of Golden Gate Hill, along the roadway, and covering silicified materials, oxidized granodiorite and "quartz rock" (Figure 3).

- North Golden Gate: Harlow's Road

  Systemic rock sampling of an approximately 30m roadcut through the mineralised zone on Harlow's Road and sampling of additional exposures; collection of representative chip-channel samples across outcrops and samples of vein material, oxidized granodiorite host rock, and surrounding wall rock (Figure 3).

- Golden Gate Road – south end

  Additional rock sampling to follow-up on historic anomalies to support drill program planning on the southern road through systematic sampling of altered and/or mineralised outcrops, as well as country rock outcrops, to provide a better understanding of controls of mineralisation before commencing drilling (Figure 4).

- 3-dimensional resistivity modelling of existing controlled source audio-magnetotellurics (CSAMT) data to provide further guidance on drill targets from the planned, permitted drill sites.

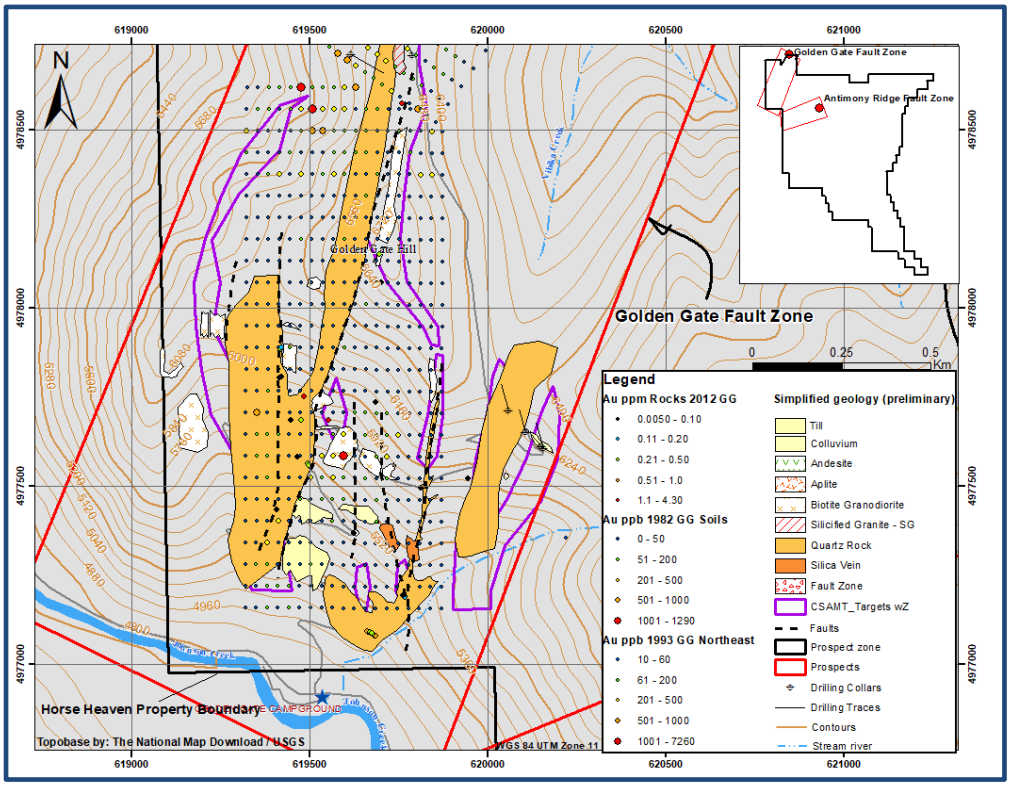

Figure 4: Topographic plan of the southern part of the Golden Gate Fault Zone, showing soil sample grid locations, colour-coded soil gold assay results (in ppb) and drill hole traces. Refer to detailed legend. Note that all soil sample assay results are included in the Company's ASX announcement dated 11 June 2025.

Vibika Creek and Adits

- East Vibika Creek area – mapping and sampling to follow up on high grade soil samples collected in 1994 (figure 3).
- Vibika adits area - collect representative chip-channel samples across rock exposures; select samples of: Manganese-rich (MnOx) vein material; Pyrite-Arsenopyrite mineralised granodiorite host rock, and surrounding wall rock (Figure 3).

Antimony Ridge

Surface exploration mapping and sampling at Antimony Ridge will be concentrated along a broad northeast-southwest trending corridor (Figure 2) that parallels the ARFZ. The program will include the following:

- Mapping and sampling of the interpreted northern continuation of the north-northeast shear zone approximately 1,000m north of historic trenches and in old roadcuts approximately 500 south-southwest of trenches in road cuts (Figure 5).
- Collect soil samples on lines that cross the historic trenches but extending several hundred metres northwest and southeast. The soil sample grid is planned to consist of twelve 800m lines, 120m apart, and sampled at 30m intervals (Figure 5).

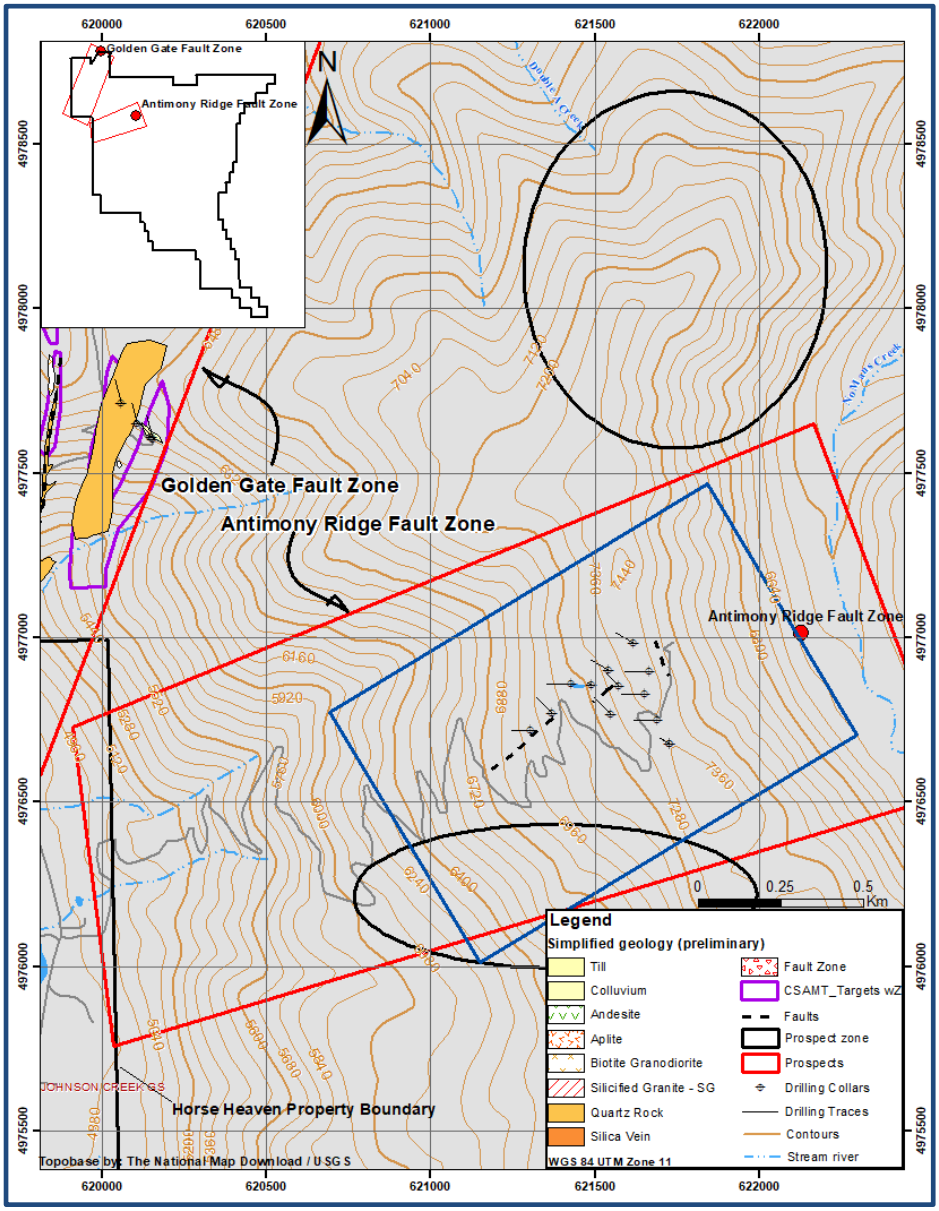

Figure 5: Topographic plan of the Antimony Ridge Fault Zone, showing drill hole traces. Refer to detailed legend. Note that all soil sample assay results are included in the Company's ASX announcement dated 11 June 2025.

Authorised for release by the board of Resolution Minerals Ltd.

For further information, please contact Aharon Zaetz Executive Director.

Aharon Zaetz
Executive Director
Resolution Minerals Ltd
M: +61 424 743 098
ari@resolutionminerals.com

Jane Morgan
Investor Relations
Jane Morgan Management
M: +61 405 555 618
jm@janemorganmanagement.com.au

Forward Looking Statements

This announcement may contain forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "anticipate", "believe", "intend", "estimate", "expect", "may", "plan", "project", "will", "should", "seek" and similar words or expressions containing same. These forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this release and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. These include, but are not limited to, risks or uncertainties associated with the acquisition and divestment of projects (including risks associated with completing due diligence and, if favourable results are obtained, proceeding with the acquisition of the Horse Heaven Project), joint venture and other contractual risks, metal prices, exploration, development and operating risks, competition, production risks, sovereign risks, regulatory risks including environmental regulation and liability and potential title disputes, availability and terms of capital and general economic and business conditions.

Given these uncertainties, no one should place undue reliance on any forward-looking statements attributable to the Company, or any of its affiliates or persons acting on its behalf. Subject to any continuing obligations under applicable law, the Company disclaims any obligation or undertaking to disseminate any updates or revisions to any forward-looking statements in this announcement to reflect any change in expectations in relation to any forward-looking statements or any change in events, conditions or circumstances on which any such statement is based.

Competent Person's Statement

All exploration results contained in this announcement were released under a previous RML ASX announcement dated 11 June 2025 "Agreement to Acquire Major US Antimony Project and Placement". For full listing rules disclaimers and cautionary notes associated with these historical and foreign exploration results, please refer the above-mentioned announcement. The Company confirms it is not aware of any new information or data that materially affects the information cross referenced in this announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcements.

About Riviere Minerals

*Riviere Minerals Pty Ltd ("**Riviere**") is a resource consultancy specialising in project evaluation and portfolio management. Its principle geologist and sole director, Mr Ross Brown, has nearly 40 years of experience in mineral exploration worldwide. Through Riviere, Mr Brown also provides assistance in exploration planning, execution and ASX reporting.*