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NEWS RELEASE

May 22, 2023

Perpetua Resources Announces Addition to the Russell 2000® Index

BOISE, ID - Perpetua Resources Corp. (Nasdaq: PPTA / TSX: PPTA) ("Perpetua Resources" or "Perpetua" or the "Company") announced today that as part of the annual reconstitution of the Russell stock indexes, Perpetua Resources is expected to be included in the Russell 2000® Index and the broad-market Russell 3000® Index effective after the U.S. market opens on June 26, 2023. A preliminary list of index additions, including Perpetua Resources, was posted by FTSE Russell on May 19, 2023.

"We are pleased to have earned our inclusion in the Russell 2000® Index, one of the most widely cited performance benchmarks for emerging U.S. companies," said Laurel Sayer, President and CEO of Perpetua Resources. "This is an important milestone for Perpetua as we continue to build momentum and advance our Stibnite Gold Project through the permitting process and towards a construction decision."

Perpetua Resources' vision is to provide the U.S. with a domestic source of the critical mineral antimony, develop one of the largest and highest-grade open pit gold mines in the country and restore an abandoned brownfield site. Perpetua Resources is focused on advancing the permitting for the Stibnite Gold Project ("Project") through the National Environmental Policy Act process.

Membership in the Russell 3000® Index means automatic inclusion in the large-cap Russell 1000® Index or small-cap Russell 2000® Index as well as in the appropriate growth and value style indexes. The Russell 3000® Index encompasses the 3,000 largest U.S.-traded stocks by objective, market-capitalization rankings, and style attributes. Membership in these indexes is updated annually and remains in place for one year.

The Russell indexes are widely used by investment managers and institutional investors for index funds and as benchmarks for active investment strategies. Approximately US\$12.1 trillion in assets are benchmarked against Russell's U.S. indexes. Russell indexes are part of FTSE Russell, a leading global index provider.

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About Perpetua Resources and the Stibnite Gold Project

Perpetua Resources Corp., through its wholly owned subsidiaries, is focused on the exploration, site restoration and redevelopment of gold-antimony-silver deposits in the Stibnite-Yellow Pine district of central Idaho that are encompassed by the Stibnite Gold Project. The Project is one of the highest-grade, open pit gold deposits in the United States and is designed to apply a modern, responsible mining approach to restore an abandoned mine site and produce both gold and the only mined source of antimony in the United States. Further advancing Perpetua Resources' ESG and sustainable mining goals, the Project will be powered by the lowest carbon emissions grid in the nation and a portion of the antimony produced from the Project will be supplied to Ambri, a US-based company commercializing a low-cost liquid metal battery essential for the low-carbon energy transition. Perpetua Resources has been awarded a Technology Investment Agreement of up to \$24.8 million in Defense Production Act Title III funding to advance construction readiness and permitting of the Project. Antimony trisulfide from Stibnite is the only known domestic source of antimony that can meet U.S. defense needs for many small arms, munitions, and missile types. In addition to the company's commitments to transparency, accountability, environmental stewardship, safety and community engagement, Perpetua Resources adopted formal ESG commitments which can be found here.

Forward-Looking Information

Statements contained in this news release that are not historical facts are "forward-looking information" or "forwardlooking statements" (collectively, "Forward-Looking Information") within the meaning of applicable Canadian securities legislation and the United States Private Securities Litigation Reform Act of 1995. Forward-Looking Information includes, but is not limited to, disclosure regarding possible events, next steps and courses of action, including plans with respect to the ability of the Company and Ambri, Inc. to perform under the supply agreement, which agreement is subject to certain conditions, including identification of one or more refiners to transform our antimony concentrate into antimony metal, and mutual agreement on certain material terms, including volume and pricing; and the Stibnite Gold Project and the success of such project. In certain cases, Forward-Looking Information can be identified by the use of words and phrases or variations of such words and phrases or statements such as "anticipate", "expect" "plan", "likely", "believe", "intend", "forecast", "project", "estimate", "potential", "could", "may", "will", "would" or "should". Forward-Looking Information in this news release are based on certain material assumptions and involve, known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Perpetua Resources to be materially different from any future results, performance or achievements expressed or implied by the Forward-Looking Information. Such risks and other factors include those factors discussed in Perpetua Resources' public filings with the U.S. Securities and Exchange Commission (the "SEC") and its Canadian disclosure record. Although Perpetua Resources has attempted to identify important factors that could affect Perpetua Resources and may cause actual actions, events or results to differ materially from those described in Forward-Looking Information, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. For further information on these and other risks and uncertainties that may affect the Company's business, see the "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" sections of the Company's filings with the SEC, including Perpetua's Annual Report on Form 10-K filed with the SEC on March 16, 2023, which are available at www.sec.gov and with the Canadian securities regulators, which are available at www.sedar.com. Except as required by law, Perpetua Resources does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this news release to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

