

# Bunker Hill Provides October 2023 Restart Project Update

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Join Richard Williams, Sam Ash, and Tom Francis for a live virtual event from Bunker Hill Site as they unveil the monumental upgrade to the Russell Portal, along with providing a general update from the field on October 24th at 9 am PT / 12 pm ET by registering at this link.

## PROJECT ADVANCING ON TIME AND BUDGET:

- Mining:
  - Russell Portal dimensions enlarged to enable underground ("UG") mechanized mining rates of 1800-2500tpd
  - Wardner Operating Yard, adjacent to the Russell Portal and the hub for UG mining operations, connected to Russell Portal
  - Wardner Operating Yard footprint increased via redistribution of waste from Russell Portal upgrade
- Processing:
  - Bunker Hill Operating Yard prepared for start of construction of new processing plant
  - Final Process Plant engineering 95% complete
  - Tailings Facility and Paste Backfill Plant advanced in partnership with Tierra Group & Ausenco
- People:
  - Site team augmented with recruitment of Maintenance Planner, Chief Geologist & Site Controller
  - New CFO Gerbrand Van Heerden starts in role around the beginning of November

## NEXT STEPS

- UG upgrade of ventilation, ramp access, power, and construction of UG Maintenance Shop
- Geotechnical stabilization work for Process Plant construction to be complete through Q4 2023
- Publication of PEA for 2500tpd operation (Bunker 2.0) during Q4 2023

TORONTO, Oct. 18, 2023 -- [Bunker Hill Mining Corp.](#) (the "Company") (TSXV: BNKR) (OTCQB: BHILL) is pleased to provide an update on restart project activities during Q3 of 2023.

Sam Ash, CEO, said: "The execution of our Bunker 1.0 (1800tpd) restart project remains on time and budget; and is testament to the leadership and skill of the team. This allows us to focus on other value-creating opportunities, including the Bunker 2.0 (2500tpd) mine plan, which will be shared with the market during Q4 2023."

## A FIT FOR PURPOSE BASE FOR MINING OPERATIONS

During the course of August and September, the Wardner Operating Yard, the base for Bunker Hill's mining operations, underwent a significant transformation. This included the removal of the old, prefabricated concrete (10' x 10') portal and its replacement with upsized steel arch sets (16' x 16') supported with bespoke lagging. This enlarged Russell Portal supports the planned 1800tpd operation with significant additional upside capacity and allows easy access/egress for the mine and its fleet of 20ton+ trucks and 4-6yd Loaders. Whilst this work was underway, executed by *GMS Mine Repair & Maintenance* based out of Maryland, the Bunker Hill team also completed procurement of a new 300hp Beckwith & Kuffel compressor and a 7ft 400hp mainline fan (and starter), both of which will be installed before the end of the year.

Additional activity in support of mining operations during this period included the following: the refurbishment on site of multiple electrical transformers by *Industrial Support Service LLC*; rehabilitation of the surface warehouse and workshop at Wardner; the rehabilitation and insertion of ladders into a 100ft section of the Cherry Raise that ensures the mine will have not one but two secondary escapeways (or a tertiary escapeway option) when in operation; and a substantial increase in yard laydown area due to the tactical

dumping of waste from the portal work.

Initial earthwork in support of portal. First set of steel sets being positioned. Spreaders inserted prior to burying steel sets.

## CONNECTION TO MAINLINE POWER

In parallel with the portal upgrade, Bunker Hill also partnered with *Avista Utilities* and *Wilson Construction Co.* to connect the Wardner footprint with mainline power. This work, now completed, equips the site with 1.85MW of electricity, generated through the hydroelectric-dominated supply of the Pacific Northwest, at rates of below 6c per kwh as the operation gets underway and below 5c per kwh as cumulative electrical usage ramps up and the operation falls into the highest-usage category. This is a significant milestone for Bunker Hill's operating cost base and for the first time gets the site away from an almost exclusive reliance on diesel generators at Wardner.

Figure 1: *Avista Utilities* working to install upgraded power from the nearby substation up Division Street in Wardner and to site.

Figure 2: W

## PROCESSING AND TAILINGS FACILITIES

Engineering of the main Process Plant is advancing on track with deep pier establishment scheduled to commence in the next month as part of geotechnical stabilization and preparation of the land for the construction of the Process Plant itself. All main civil, structural and mechanical outputs are on track to be at IFC before year end and long-lead procurement has resulted in purchase orders having already been issued for the Pre Engineered Metal Building (PEMB), ore silo, conveyors, Ball Mill starter motor, thickeners tanks and inching drive. Refurbishment of the Pend Oreille mill equipment, the source of the overwhelming majority of mill components, is now underway in the refurbished Motor Barn on site.

The Bunker Hill team hosted an onsite visit by Ausenco, which is leading on the design and engineering of the Filtration Plant and Paste Plant, on 3-4 October 2023. This visit identified the potential for some pre-existing structures in Wardner to be repurposed to help house the Paste Plant. Tierra Group International, which is leading on the Dry Stack design and engineering, the second part of Bunker Hill's dual tailings solution, has started to issue preliminary designs for a Life of Mine facility on the Bunker Hill footprint. Further geotechnical work in support of these designs is scheduled to commence on 18 October 2023.

Preliminary Dry Stack Tailings Storage Facility designs for Bunker Hill

## RECRUITING

The team continues a careful upwards recruiting trajectory and is currently onboarding a Maintenance Planner, Chief Geologist and Site Controller. Additional Mine Engineering personnel are coming on board in early 2024. Further to a previous Management Update (14 August 2023), the new CFO is expected to start on or around the beginning of November.

14 Oct - Newly completed and enlarged Russell Portal

## QUALIFIED PERSON

Mr. Scott E. Wilson, CPG, President of RDA and a consultant to the Company, is an independent "qualified person" as defined by NI 43-101 and is acting as the qualified person for the Company. He has reviewed and approved the technical information summarized in this news release.

The Qualified Person has verified the information disclosed herein, including the sampling, preparation,

security and analytical procedures underlying such information, and is not aware of any significant risks and uncertainties that could be expected to affect the reliability or confidence in the information discussed herein.

#### ABOUT BUNKER HILL MINING CORP.

Under new Idaho-based leadership [Bunker Hill Mining Corp.](#), intends to sustainably restart and develop the Bunker Hill Mine as the first step in consolidating a portfolio of North American mining assets with a focus on silver. Information about the Company is available on its website, [www.bunkerhillmining.com](http://www.bunkerhillmining.com), or within the SEDAR+ and EDGAR databases.

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#### Cautionary Statements

*The TSX Venture Exchange (the "TSX-V") has neither approved nor disapproved the contents of this news release. Neither the TSX-V nor its Regulation Services Provider (as that term defined in the policies of the TSX-V) accepts responsibility for the adequacy or accuracy of this release.*

*Certain statements in this news release are forward-looking and involve a number of risks and uncertainties. Such forward-looking statements are within the meaning of that term in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, as well as within the meaning of the phrase 'forward-looking information' in the Canadian Securities Administrators' National Instrument 51-102 - Continuous Disclosure Obligations (collectively, "forward-looking statements"). Forward-looking statements are not comprised of historical facts. Forward-looking statements include estimates and statements that describe the Company's future plans, objectives or goals, including words to the effect that the Company or management expects a stated condition or result to occur. Forward-looking statements may be identified by such terms as "believes", "anticipates", "expects", "estimates", "may", "could", "would", "will", or "plan" or variations of such words and phrases. Since forward-looking statements are based on assumptions and address future events and conditions, by their very nature they involve inherent risks and uncertainties. Although these statements are based on information currently available to the Company, the Company provides no assurance that actual results will meet management's expectations. Risks, uncertainties and other factors involved with forward-looking statements could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking statements.*

*Forward looking statements in this news release include, but are not limited to: the Company's intentions regarding its objectives, goals or future plans and statements, including the timing and budget of the planned restart of the Bunker Hill Mine; estimations of the supply of power to the Russell Portal and the benefits of same; the benefits of the Wardner Yard upgrades; the expected budget and estimated completion time for the UG upgrades, processing and tailing facilities, and operating yard, including further geotechnical, design and engineering work in support thereof; the publication and timing for a PEA and the mine plan; the procurement of purchase orders and the timing for and installation of operational equipment; the recruitment of additional personnel; the expected start date of the new CFO; revenue potential opportunities from mining and the sale of ore; increases in cash flow; and the Company's seeking other value-creating opportunities. Factors that could cause actual results to differ materially from such forward-looking statements include, but are not limited to the Company's inability to raise sufficient capital for its operations; the ability to predict and counteract the effects of COVID-19 on the business of the Company, including but not limited to the effects of COVID-19 on the price of commodities, capital market conditions, restriction on labour and international travel and supply chains; failure to identify mineral resources; failure to convert estimated mineral resources to reserves; the inability to complete a feasibility study which recommends a production decision; the preliminary nature of metallurgical test results; the Company's ability to restart and develop the Bunker Hill Mine and the risks of not basing a production decision on a feasibility study of mineral reserves demonstrating economic and technical viability, resulting in increased uncertainty due to multiple technical and economic risks of failure which are associated with this production decision, including, among others, areas that are analyzed in more detail in a feasibility study, such as applying economic analysis to resources*

*and reserves, more detailed metallurgy and a number of specialized studies in areas such as mining and recovery methods, market analysis, and environmental and community impacts and, as a result, there may be an increased uncertainty of achieving any particular level of recovery of minerals or the cost of such recovery, including increased risks associated with developing a commercially mineable deposit with no guarantee that production will begin as anticipated or at all or that anticipated production costs will be achieved; failure to commence production would have a material adverse impact on the Company's ability to generate revenue and cash flow to fund operations; failure to achieve the anticipated production costs would have a material adverse impact on the Company's cash flow and future profitability; delays in obtaining or failures to obtain required governmental, environmental or other project approvals; political risks; changes in equity markets; uncertainties relating to the availability and costs of financing needed in the future; the inability of the Company to budget and manage its liquidity in light of the failure to obtain additional financing, including the ability of the Company to complete the payments pursuant to the terms of the agreement to acquire the Bunker Hill Mine Complex; inflation; changes in exchange rates; fluctuations in commodity prices; delays in the development of projects; capital, operating and reclamation costs varying significantly from estimates and the other risks involved in the mineral exploration and development industry; and those risks set out in the Company's public documents filed on SEDAR+ and EDGAR. Although the Company believes that the assumptions and factors used in preparing the forward-looking statements in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, other than as required by law. No stock exchange, securities commission or other regulatory authority has approved or disapproved the information contained herein.*

#### Cautionary Note to United States Investors Concerning Estimates of Measured, Indicated and Inferred Mineral Resources

*This news release has been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ from the requirements of U.S. securities laws. Unless otherwise indicated, all resource and reserve estimates included in this news release have been disclosed in accordance with NI 43-101 and the Canadian Institute of Mining, Metallurgy, and Petroleum ("CIM") Definition Standards on Mineral Resources and Mineral Reserves. NI 43-101 is a rule developed by the Canadian Securities Administrators which establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. The terms "mineral reserve," "proven mineral reserve" and "probable mineral reserve" are Canadian mining terms as defined in accordance with NI 43-101 and the CIM standards. Pursuant to subpart 1300 of Regulation S-K ("S-K 1300"), the U.S. Securities and Exchange Commission (the "SEC") now recognizes estimates of "measured mineral resources," "indicated mineral resources" and "inferred mineral resources." In addition, the SEC has amended its definitions of "proven mineral reserves" and "probable mineral reserves" to be substantially similar to the corresponding standards of the CIM. Investors are cautioned that while terms are substantially similar to CIM standards, there are differences in the definitions and standards under S-K 1300 and the CIM standards. Accordingly, there is no assurance any mineral reserves or mineral resources that the Company may report as "proven reserves," "probable reserves," "measured mineral resources," "indicated mineral resources" and "inferred mineral resources" under NI 43-101 will be the same as the reserve or resource estimates prepared under the standards adopted under S-K 1300. Investors are also cautioned that while the SEC now recognizes "measured mineral resources," "indicated mineral resources" and "inferred mineral resources," investors should not assume that any part or all of mineral deposits in these categories will ever be converted into reserves. Mineralization described using these terms has a great amount of uncertainty as to their existence, and great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of an "measured mineral resource," "indicated mineral resource" or "inferred mineral resource" will ever be upgraded to a higher category. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or pre-feasibility studies, except in rare cases. Investors are cautioned not to assume that all or any part of an inferred mineral resource exists or is economically or legally mineable. Disclosure of "contained ounces" in a resource is permitted disclosure under Canadian regulations; however, the SEC normally only permits issuers to report mineralization that does not constitute "reserves" by SEC standards as in place tonnage and grade without reference to unit measures. Accordingly, information concerning mineral deposits contained in this news release may not be comparable with information made public by companies that report in accordance with U.S. standards.*

Photos accompanying this announcement are available at

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