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Memorandum

To: Todd Powell, Director, Mineral Resources, Energy, Mines and Resources
From: Hecla Yukon
CC: Keno City Residents
Date: 7/11/2023
Re: 2022 Q4 Noise Monitoring Results Summary

INTRODUCTION

This report summarizes noise monitoring levels recorded during the fourth quarter of 2022 within Keno City, in accordance with the Keno Hill Silver District Mining Operations (KHSD) Noise Monitoring and Management Plan (October 2021). A detailed noise monitoring data summary report for 2022 was submitted as an Appendix to the Quartz mining License annual report in April 2023. It was requested by EMR on 7/10/2023 that a quarterly report also be submitted in addition to the 2022 detailed summary report. The following information is being submitted to satisfy that request from EMR.

Addressing potential noise effects on community wellbeing is of key importance given the location of the KHSD Mine Operations to Keno City. Alexco Keno Hill Mining Corp. (AKHM) monitors noise levels within the community at various locations to assess noise levels and to determine if the noise mitigation measures are effective.

Noise within the 20-60 dBA range is considered acceptable for daytime noise limits. A permissible sound level (PSL) of 40 decibels energy level equivalent (dBA Leq)^{1,2} has been established from a noise impact assessment (NIA). AKHM has a maximum NIA threshold of 39 Db that the company uses to assess if noise is excessive and may cause issues for residents in the area. The company has also set up a system for recording and keeping record of any noise complaints filed by area residents.

RESULTS

The noise monitoring device malfunctioned in July 2022; however, the malfunction was not noticed until late fall when it was taken out of service, thus leaving a data gap from July 15, 2022 to December 31, 2022. The Larson Davis sound meter was calibrated in 2022.

REFERENCES

- AKHM (Alexco Keno Hill Mining Corp.). (2021). *Keno Hill Silver District Mining Operations, Noise Monitoring and Management Plan*, October 2021.
- PAAE (Patching Associates Acoustical Engineering Ltd.). (2014). *Noise Impact Assessment Update, Alexco Keno Hill Mining Corp., Proposed Flame and Moth Mine Project, Yukon Territory*. Prepared for Yukon Environmental and Socio-Economic Assessment Board (YESAB), September 23, 2014.