

From: Marathon Mine Review / Examen Mine Marathon (IAAC/AEIC) <marathonminereview-examenminemarathon@iaac-aeic.gc.ca>

Sent: Friday, July 16, 2021 1:05 PM

To: <email address removed>

Cc: Marathon Mine Review / Examen Mine Marathon (IAAC/AEIC) <marathonminereview-examenminemarathon@iaac-aeic.gc.ca>

Subject: Response to Marathon Mine Review Questions CIAR# 877

Dear Mr. Schmidt,

Thank you for your continued participation in the Environmental Assessment for the Marathon Palladium Project. To assist your participation, the Panel Secretariat has provided responses to your questions. The Joint Review Panel takes all comments it receives into careful consideration when determining if additional information is needed from the proponent. Please do not hesitate to contact the Panel Secretariat if you have further questions.

Subject: Tailings Dam Design

Questions:

Requesting drawings for:

- 1) The different tailings dam construction elevation stations that would make up the entire perimeter of this facility. Can only find a simple typical dam profile drawing so we have no idea of what type of ground the dam centerline is being constructed on that makes up the entire basin.
- 2) More detailed information on bedrock grouting around the dam centerline around the perimeter of the facility such as grid pattern and depth of grouting holes (the provided drawing only provides limited information on how a grout curtain is to be established at the base of the concrete plinth – basically a sketch).
- 3) Where is the risk assessment for the construction and life of mine operation of this tailings facility with respect to current regulations and failure impacts? (Could not find any information on issues and mitigation related to a tailings dam being constructed very near the trans-Canada highway, using dam upstream HDPE liners, etc. operating in cold northern climate).

Response:

Information regarding tailings dam design can be found in the following documents:

Environmental Impact Statement (EIS) Supplemental Document 11 – *Process Solids Management Facility and Mine Rock Storage Area Alternatives Assessment* (CIAR# [227](#))

Proponent response to Information Request # 9.7 – *Geological Cross Sections of PSMF and MRSA and Separation of Process Solids* (CIAR # [489](#))

EIS Addendum, Volume 2, Appendix D4 – *Hydrogeology Updated Effects Assessment* (CIAR# [727](#))

- 4) Where is the detailed information on the MRSA or mine rock pile profiles? Am requesting to know where we can find the location of the actual conceptual profile drawings for the different mine rockpile elevations over the life of mine and at closure as would be seen from several

different vantage points along the existing highway. Am only able to find 2D profiles within a single conceptual drawing within the information provided (figure 1610 does not really provide any tangible information to the public).

Response:

Information related to the construction and final profiles of the MRSA can be found in the proponent's response to Information Request 18.1 (Response from Stillwater to Information Requests – Section 18, Accidents and Malfunctions (CIAR# 379).

The Panel notes your request for conceptual drawings/imagery of the MRSA.

- 5) Where is a schedule of all of the water taking permits and at what volumes for each are you planning on applying for during the life of the project? And what is the location of the respective pipeline corridors that would need to be constructed?

Response:

Information related to the water requirements of the Project is located in the EIS Addendum, Appendix D5 - *Site Water Balance Summary* (CIAR# 727)

It should be noted that, if the environmental assessment is approved, the proponent will also need to apply for Permits to Take Water under the *Ontario Water Resource Act* for any water takings over 50,000 litres per day. The proposed configuration of site infrastructure is provided in EIS Addendum, Chapter 1, *Background and Introduction* (CIAR# 727) and *Surface Water Hydrology Updated Effects Assessment* (CIAR# 727).

Environmental Assessment for the Marathon Palladium Project
Impact Assessment Agency of Canada | Government of Canada
iaac.marathonminereview-examenminemarathon.aeic@canada.ca | Tel: 343-549-6246

Évaluation environnementale pour le projet de palladium de Marathon
Agence d'évaluation d'impact du Canada | Gouvernement du Canada
iaac.marathonminereview-examenminemarathon.aeic@canada.ca | Tél: 343-549-6246