



Impact Assessment
Agency of Canada

Agence d'évaluation
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February 3, 2022

Craig Hudson
Atlantic Mining NS Inc.
409 Billybell Way, Mooseland
Middle Musquodoboit, NS B0N 1X0

SUBJECT: Beaver Dam Mine Project – Information Requirements (Round 3 – Part 2)

Dear Craig Hudson:

The Impact Assessment Agency of Canada (the Agency) has completed its technical review of the Round 2 Information Requirement (IR) response for CEAA-2-31 for the proposed Beaver Dam Mine Project (the Project). The Agency has determined that additional information is required, as per the IR attached.

The response to the IR may be in a format of your choice; however, the format must be such that the response can be easily identified. You may wish to discuss the response with the Agency or Health Canada, as necessary, to obtain clarification or additional information, prior to submission. Working directly with government experts in this manner will help to ensure that the IR is responded to satisfactorily. The Agency can assist in arranging meetings with government experts, at your request.

The IR and your response will be made public on the Canadian Impact Assessment Registry Internet site: <https://iaac-aeic.gc.ca/050/evaluations/proj/80111>.

Please confirm receipt of this message and contact me if you require further information.

Sincerely,

<Original signed by>

Kathryn MacCarthy, Ph.D., P.Geo.
Project Manager, Impact Assessment Agency
Atlantic Region



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Cc: Suzanne Wade, Stephen Zwicker & Michael Hingston – Environment and Climate Change Canada

Christopher Burbidge & Matthew Baker – Fisheries and Oceans Canada

Shelley Ball – Natural Resources Canada

Jason Flanagan – Transport Canada

Joel Kaushansky & Beverly Ramos-Casey – Health Canada

Bridget Tutty – NS Environment and Climate Change

Attachment 1 - Beaver Dam Mine Project Information Requirements (Round 3 – Part 2) from the Environmental Impact Statement Review

**Attachment 1: Beaver Dam Mine Project
Information Requirements (Round 3 - Part 2) from the Environmental Impact Statement Review:
February 3, 2022**

INTRODUCTION

The Impact Assessment Agency of Canada (the Agency) completed its technical review of the Environmental Impact Statement (EIS) and associated EIS Summary for the proposed Beaver Dam Mine Project. The Agency's review is supported by submissions from government experts, the Mi'kmaq of Nova Scotia, and the public. The Agency determined that information is required, as per the information requirement (IR) below.

ACRONYMS AND SHORT FORMS

EIS	Environmental Impact Statement
HC	Health Canada
IR	information requirement
NO ₂	nitrogen dioxide

TABLE 1: INFORMATION REQUIREMENTS FOR THE BEAVER DAM MINE PROJECT – Round 3 – Part 2

IR Number	External Reviewer ID	Reference to EIS Guidelines	Reference to EIS	Context and Rationale	Specific Question/ Information Requirement
Atmospheric Environment					
IR 3-55	HC	Section 6.2.1 Changes to the atmospheric environment	Information Request Responses Round II Package Revised CEAA -2-31 Pg. 73-171 PDF	<p>The EIS Guidelines require the prediction of changes to the atmospheric environment.</p> <p>The air quality isopleths do not show all data nor the baseline + project scenario. Ranges shown on the air quality isopleths do not include the lowest values that were modelled. For example, the NO₂ 24-hour contours in Figure CEAA 2-31-16A (Pg. 116 PDF) do not show values below 1 µg/m³. This can give the false impression that the Project is not contributing contaminants of potential concern at any level, while in fact the dispersion model predicted some (albeit low) concentrations. This is particularly important for non-threshold air substances, such as NO₂, where health effects may occur at any concentration.</p> <p>Air quality isopleths should also be provided for total predicted concentrations (baseline + project contribution), and not only the Project's contribution. This will ensure that the areas of potential exceedances of standards (i.e., Canadian Ambient Air Quality Standards, Nova Scotia Air Quality Standards) can be clearly identified.</p> <p>This information is required to assess the potential effects from changes to air quality.</p>	<p>a) Revise all air quality isopleths to show the total predicted concentrations (baseline + project contribution) and project contribution only, including low concentrations (i.e., indicate on the isopleths where concentrations are < 1 µg/m³).</p>