

Our ref: Sancrox Quarry Expansion Project (SSD-7293)

Ms Belinda Pignone
Environmental Planning and Compliance Coordinator
Hanson Construction Materials Pty Ltd
Level 18, 2-12 Macquarie Street
Paramatta, NSW, 2150

22/03/2022

Subject: Request for Additional Information

Dear Ms Pignone

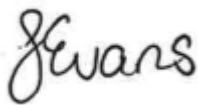
The Department is continuing to progress its assessment of the Sancrox Quarry Expansion Project (SSD-7293) and has received additional information in support of the submission on the project from Expressway Spares Pty Ltd.

After careful consideration, the Department is requesting that you provide additional information that effectively addresses the issues identified in **Attachment A**.

You are requested to provide the information, or notification that the information will not be provided, to the Department by 18 April 2022. If you cannot meet this deadline or do not intend to provide the additional information, please advise the department via the NSW planning portal.

If you have any enquiries, please contact Jarrod Blane on 02 8275 1831 or jarrod.blane@dpie.nsw.gov.au.

Yours sincerely,

A handwritten signature in black ink that reads "Evans".

Jessie Evans
Director, Resource Assessments
Resource Assessments

Enclosed/Attached: Attachment A

Attachment A

Blasting

The Department is requesting additional information regarding Hanson's assessment of flyrock impacts. This includes the assessment and proposed strategy for mitigating the risk of flyrock impacting adjoining properties, particularly the approved industrial estate immediately to the north of the site.

The Department understands that the updated noise and vibration assessment provided in Appendix E of the Response to Submissions (RtS) report included a flyrock assessment that predicted maximum flyrock throw distances based on a range of blast design parameters. The assessment relied on blasting specifications sourced from a Buffer Zone Assessment (SKM, 2009) prepared in support of a separate development application for the Sancrox Employment Precinct, an approved industrial development to the north of the quarry.

The Department has obtained a copy of the Buffer Zone Assessment referred to in the updated noise and vibration assessment. The Department notes that the Buffer Zone Assessment was prepared to inform blasting practices for the current approved Sancrox Quarry project, not the proposed project (SSD-7293).

Furthermore, the predicted throw distances in the Buffer Zone Assessment were based on blast design parameters that appear inconsistent with those used as the basis of the noise and vibration assessment for the project. For example, the Buffer Zone Assessment assumed a Maximum Instantaneous Charge (MIC) of 87 kilograms (kg), whereas the noise and vibration assessment undertaken for the project has assumed an average MIC of 164 kg and a maximum MIC of 299 kg (based on blasting undertaken at the quarry between 2015 and 2020).

The Buffer Zone Assessment sets out a range of blast design measures that could be implemented to minimise the risk of flyrock impacts based on blasts with an MIC of 87 kg. These include increasing the stemming height and/or adjusting the angle of blast holes to reduce the throw distance of flyrock. It is unclear the extent to which these measures can be adequately implemented for the proposed project with consideration of the location of the extraction area relative to adjoining land and the design of the proposed blasts for the project.

Given the proximity of the proposed extraction area to the approved industrial development to the north of the site, and the discrepancy in blast design parameters underpinning the assessment, the Department is seeking further evidence that the risks to adjoining land from blasting activities have been adequately assessed and where necessary can be appropriately mitigated.

You are requested to provide an updated flyrock assessment for the project that includes predicted throw distances and proposed measures such as blast design, buffer zones and any other relevant measures to mitigate flyrock impacts. If necessary, based on the findings of the assessment, you

are requested to amend the proposed extraction area to provide an adequate buffer with adjoining land.