

# Memorandum

14 March 2024

To: Joel Sulicich  
Health Safety Environment and Training Manager  
CBH Resources - Rasp Mine  
130 Eyre St  
Broken Hill NSW 2880

From: Bill Bull

**Subject: Rasp Mine Modification 11 - Groundwater drawdown assessment - Addendum**

Dear Joel,

EMM understands that Broken Hill Operations Pty Ltd (BHOP) has undertaken further hydrogeological investigations at the Rasp Mine following a request for information from the Department of Planning, Housing and Infrastructure (RFI-67850207). These investigations included the following:

- Observation of the historic 1480 drive.
- Water level measurements at the neighbouring Perilya North Mine.

The 1480 drive is 1480 ft. below ground level and extends through the entirety of the Line of Lode from the Perilya North Mine, through the Rasp Mine and to the Perilya South Mine. This drive is also in connection with Thompson's shaft. Observations of the 1480 drive from the Rasp Mine showed that it was dry, with no visible flows along the drive that connects to the current Rasp Mine workings. This indicates that Thompson's shaft is dry to 480 mbgl.

Water levels at the Perilya North Mine were approximately 550 mbgl on 1 February 2018 prior to the North Mine resuming operation (including mine dewatering). On 27 February 2024, the groundwater level at the Perilya Mine was approximately 1000 mbgl, while water level within Rasp Mine's Shaft 7 was 590 mbgl. Due to the proximity of these measurements to Thompson's shaft, it is very likely that it is dry to 480 mbgl.

The water level in Thompson's shaft was assumed to be 225 mbgl for the purpose of EMM's groundwater drawdown assessment. Based on the findings of the recent investigations, which put the regional groundwater table at 480 mbgl or lower, this assumption and the predicted drawdowns are no longer applicable. As the proposed workings extend to 270 mbgl at the deepest (i.e. the workings are entirely above the regional groundwater table), no drawdown of the regional groundwater table is expected due to MOD11.

Yours sincerely



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Senior Environmental Engineer

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