

Boral presents this update on works and initiatives taking place at the former Berrima Colliery site at Medway for the information of its valued neighbours and stakeholders.

CWG meets in March and June

We remain focused on closing the former Berrima (Medway) Colliery in a safe and sustainable way. Our engagement with the local community remains a crucial part of this process.



Resources such as our dedicated website and Closure Working Group (CWG) meetings are key to ensuring the local community is informed about the steps being taken as part of the closure process.

Our most recent meetings of the CWG were held on 26 March and 25 June. The meetings discussed recent activities at the site and updates to the Stage 2 Closure Mine Operations Plan, the approved pathway for the proposed pit top water treatment system and monitoring undertaken within Mandemar Lane.

As always, we'd like to thank all CWG members for volunteering their time. We appreciate their genuine feedback on our journey toward the closure.

During the meeting we were updated on:

- water quality discharge,
- the performance of the bulkheads,
- the submitted Stage 2 Mine Operations Plan including our preferred options for long-term management of the mineralised groundwater and;
- recent pit top remediation works.

The next meeting of the CWG is scheduled for 24 September 2021.

Water quality

The quality of the water discharging from the mine continues to be at acceptable levels as defined in our Environmental Protection Licence (EPL 608).

Treated discharge volumes into the Wingecarribee River have been in the range of 1.8-1.9ML/day below the long-term average of 2.6 megalitres per day (ML/day).

We continue to assess the water quality upstream and downstream of the mine discharge point and assess any changes and take action as we pursue the closure.

As outlined in our February newsletter, the pH of discharge waters, while within the permitted range, had started to trend down. Lower pH can increase dissolved metal concentrations, which was reflected our monitoring results. While these were still low with only a minor influence in the mixing zone of the river, we acted on this by undertaking the additional maintenance work on the underground passive water treatment system to incorporate lime dosing. This action has brought the water quality back to the historical average.

The return of reasonable rainfall over the past 18 months, as well as water transfers by Water NSW, has meant the river continues to show an increase flow which is assisting in overall stream health.

Key steps to closure

During the CWG meeting, we provided an update on our Stage 2 Closure Mining Operations Plan (MOP) that was submitted to the NSW Resources Regulator in November 2020.

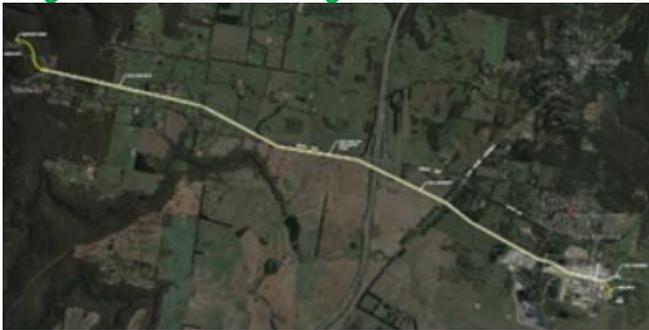
The MOP included our preferred option to sustainably manage the mine water quality post-closure and other commitments regarding surface rehabilitation works.

During the review process the Resources Regulator has requested Boral complete an updated groundwater model of our proposed final bulkhead seals and long-term potential groundwater releases from the mine.

This groundwater model has been completed and submitted to the Resources Regulator to assist in their review of the closure approach.

While we await the outcome of the review the Stage 1 MOP remains current.

Long-term water management



As outlined in our February 2021 newsletter. To enable physical enclosure of the mine, and a safer and more viable option for continued treatment of underground waters, Boral has proposed to install a passive water treatment system at the Colliery pit top.

The system has been designed upon our research and learnings over the last couple of years from our underground passive water treatment system.

The pit top system will consist of a number of dams that will rely on a small amount of aeration, limestone bedding and gravity, enabling the naturally occurring minerals such as iron and manganese to precipitate out.

The waters would then be released back into the Wingecarribee near the mine access bridge as an EPA licenced discharge point. The system has also been designed to enable treated waters to be piped via the Boral rail easement from the Colliery to the Cement Works at New Berrima for operations, reducing the Cement Works reliance on extracted water from the Wingecarribee River.

We have commenced discussions with the Department of Planning, Industry and the Environment, the NSW EPA and the Resources Regulator on the most appropriate approval pathway for the treatment system and pipeline.

