

15 July 2022

Bowen Basin Coal Pty Ltd
Level 7 12 Creek Street
Brisbane QLD 4000
Via email
Attention: Mike Rowlands

Mike,

Re: Lake Vermont Meadowbrook EIS – Site Water Balance Peer Review

I have reviewed and commented on the Site Water Balance and Water Management System Report and the Rehabilitated Landform Water Balance Report prepared by WRM Water & Environment Pty Ltd as part of the Lake Vermont Meadowbrook Environmental Impact Statement (EIS). This included multiple reviews of both reports as these were revised. The most recent report revisions were, for the former, Rev AD3 and, for the latter, Rev 4 both dated 12 July 2022. The review related mainly to the text and numerical content of the two reports.

Through the peer review process I have made a number of requests for clarification and suggestions for modifications to the methodology and reporting. The main suggestions related to the following issues.

- The rainfall runoff model (AWBM) parameters used in the wider water balance models.
- Final landform depression groundwater inflow and fate of seepage.
- Potential impact of sediment dam outflows to the receiving environment.
- Clarity on the wider implications of the site operational water balance on water supply security and the existing Lake Vermont water management system.

These issues were resolved to my satisfaction. It is concluded that the water balances are sufficient and fit for purpose for the EIS, in terms of the prediction and assessment of the project surface water balance, both operationally and post mining. The work has developed and described a proposed operational water management system and demonstrated through modelling that such a system is predicted to operate adequately under a range of climatic scenarios. The work has also, in concert with groundwater specialists, developed a final landform water balance which predicts that the final landform depression should periodically contain water to a shallow depth well below the spill level.

Please contact the undersigned if you require further information.

Yours faithfully,



Tony Marszalek
Senior Principal