
Wairakei South Fast Track Application

Joint Technical Note No 1

Bill Noell

Pattle Delamore Partners Ltd for Bay of Plenty Regional Council

Stoffel Bakkes

Maven BOP Ltd for Bell Road Ltd Partnership

Questions provided by Maven 11/8/26

1/ Are there differences between BLRP and BOPRC models

The differences as outlined in BOPRC Technical assessment.

One model is calibrated to three events, the other is not calibrated and uses different input data from the calibrated model so comparison between the two models is not valid

2 IF so are the differences material

Agreed - there are material differences. The calibration, verification and validation processes are important so people can have confidence in the models and assessment. This is considered especially important in a sensitive location like the proposed development that is currently susceptible to flooding

3 How are these to be closed out ?

Can be closed out with a calibrated verified and validated model as proposed and effects assessed across the floodplain.

BOPRC have agreed to assist with provision of data where available

Technical Commentary on response to minute Item 39

39(a) The current status of technical review of the Applicants model and the issues and information gaps identified in that review that remain unresolved, including inconsistencies between the applicant and regional council models

BOPRC provided their technical assessment of the application on 7/8/26. This included comparison of their own hydraulic modelling results to assess the effect of the development across the full floodplain that was not provided with the application. Additional runs also included post development breach modelling and pump failure scenarios.

39(b) Any agreement reached on the steps required to resolve the issues identified in the technical review and likely time to do so

Maven to update assessment across the floodplain based a calibrated model calibrated against actual events early 2026 (Jan – March) identified as containing favorable events to provide the calibration (suitability and availability of data still to be reviewed). It is difficult to predict as all uncertainties are involved. Under normal circumstances such a task may take 3-5 months and all things going well.

Maven is to seek more resources as well as assistance from BOPRC with data and propose a time frame of four weeks + 1 week internal review.

39(c) Any further time to run the models for additional scenarios not modelled but jointly agreed to be desirable or necessary

- *Time frame included in above*
- *Final design event scenarios and modeling parameters to be agreed but BOPRC expect to be based on scope requested including independent peer review. This may depend on calibration results*
- *Maven will require direction over breach scenarios to be run – location and confirmation of geotechnical parameters if required*
- *BOPRC expectation is that the calibration and assessment is to be fully independently peer reviewed prior to granting of consent. (estimated 2-3week process with the correct information)*
 - *Successfully calibrated against appropriate event with appropriate parameters and data*
 - *Design parameters and data for effects assessment appropriate*
 - *Effects assessment against activity over appropriate range of events*
 - *Effects assessment of activity over appropriate area and range of events*

Maven would propose the peer review as consent condition

39(d) The extent to which further technical review and effects assessments (by regional Council Experts) are dependent on the resolution modelling issues and verification of modelling outputs, and time that will be required to finalise those assessments once modelling outputs are confirmed. This includes stormwater and flooding effects as well as ecological and water quality assessments.

We would expect that effects assessment could be updated if above details are resolved satisfactorily within three weeks.

Other issues (not anticipated to be on critical path if they are delivered as completed)

Stormwater Treatment – Maven to provide primary stormwater option as requested

Stormwater Pumping - Maven to provide OPEX/ CAPEX assessment for pumping to assess future economic effects



Bill Noell CPENG (Water, Environmental)

Date

20/8/26



Stoffel Bakkes CPENG (Civil)

20/08/2026

