

MEMORANDUM

TO: Frank Iacono (Transport Planning Engineer, Wingecarribee Shire Council)

CC: Alan Stewart (Director), Matthew Petherick (Traffic and Transport Planner)

FROM: Manesha Ravji (Associate)

DATE: 1 May 2012

OUR REF: IS12610

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RE: **BOWWRAL TOWN CENTRE PARAMICS MODEL AUDIT**

Overview

GTA Consultants (GTA) was commissioned in 2010 by Wingecarribee Shire Council to conduct an audit of the 2010 base (Friday afternoon school peak, 3:00-4:00pm) Quadstone Paramics model of the Bowral Town Centre. The findings of the GTA's preliminary audit are summarised in the draft GTA 'Bowral Town Centre Model Paramics Model Audit' report (GTA Report) dated 01/11/10.

The model was audited in accordance with the Road and Traffic New South Wales (RTA) guidelines and in line with expected standard practise in the micro-simulation field.

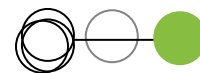
Preliminary Audit Findings

The findings of the preliminary audit (as outlined in the GTA Report) concluded that the base model could not be considered fit for purpose due to model stability not being achieved when the model was run by GTA. In order for the model to be considered 'fit for purpose', it would be anticipated that the total number of vehicles on the network would decline during the cool down period. This was not evident during the preliminary audit testing.

Other minor recommendations were made in the GTA Report, however implementation of these recommendations were not expected to have a notable impact on the validity of the model.

Consultation with the Model Developer and Azalient

Following on from issuing the GTA Report, GTA liaised with the model developers High Range Analytics as well as the developers of the Quadstone Paramics plugins used in the audit (Azalient) in order to resolve the model stability issues. Azalient indicated that there are different versions of the plugins for Quadstone Paramics version 5.2 which may result in discrepancies in the model outputs.



Revised Audit Findings

Following consultation with High Range Analytics and Azalient, GTA successfully ran the base model (independently in-house) using compatible plugin fields with no further model stability issues. Accordingly, the 2010 base Quadstone Paramics model of Bowral Town Centre was found to be 'fit for purpose' and suitable for scenario testing purposes.

Yours sincerely

GTA CONSULTANTS

Manesha Ravji
Associate