



## TECHNICAL NOTE

<b>DATE:</b>	10 January 2025	<b>CONFIDENTIALITY:</b>	Confidential
<b>SUBJECT:</b>	St Albans Local Plan National Highways Request		
<b>PROJECT:</b>	70119618 - COMET modelling run 7.1 for St Albans Local Plan	<b>AUTHOR:</b>	Neal Dyson
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## OVERVIEW

Following the meeting between St Albans District Council (SADC)/ Hertfordshire County Council (HCC) and National Highways (NH) on 18<sup>th</sup> December 2024 and the email and attached document with actions sent by Chris Briggs (SADC) on 2<sup>nd</sup> January 2025. WSP have been asked to provide the following information from the St Albans Local Plan COMET modelling:

- Provide plots of flow change across wider SRN area – plots to show absolute flow and change in flow due to the Local Plan
- Provide details of flow changes on all approach arms at M1 J8, M25 J21/21A, M25 J22 and M25 J23 and other SRN locations where flow changes by > 30 vehicles as a result of Local Plan development
- Provide details of flow changes at merge/diverges where these are > 100 vehicles.

The above will be provided in relation to Option 0 and 1 only (i.e. without any mode shift effects and IDP schemes). Note that Option 1 does not include IDP schemes and therefore the improvements on Breakspear Way (which have previously been shown to impact on traffic flows in the area of M1 J8) will not be present. **HCC/SADC to confirm that this is acceptable or whether an additional/alternative scenario should be provided.**

It is assumed that these outputs will be provided for both AM and PM peak hours as both of these time periods have been modelled.

## MODELLING OUTPUTS

The following section describes the envisaged outputs that will be produced. **HCC/SADC to confirm that this is acceptable and provides all required information.**

### FLOW PLOTS OF WIDER SRN AREA

- Traffic flows were previously output from the model for Option 0 and 1. A subset of just the SRN links will be extracted from this.
- A GIS shape file including this data will be prepared to display the SRN network flows only. Links will be coloured or sized in proportion to the link flow, with an accompanying key to identify flow intervals.
- Three separate plots will be produced for each time period showing:
  - Flows in Option 0 (without LP)
  - Flows in Option 1 (with LP)
  - Flow difference between Option 1 and Option 0



## FLOW CHANGES AT KEY JUNCTIONS

- Traffic flows at the following junctions will be output from the model:
  - M1 J8
  - M25 J21/21A
  - M25 J22
  - M25 J23
  - Any other SRN locations where flow on any entry arm changes by > 30 vehicles (as identified from the wider flow difference plot in step 1) we have assumed an additional 2 junctions, if this number is greater we will inform HCC/ SADC to agree our approach
- An Excel workbook will be prepared with a worksheet for each junction showing the entry flow on each approach arm in Option 0 (without LP), Option 1 (with LP) and the difference between Option 1 and Option 0. Entry flows will be tabulated with an accompanying diagram showing road names for reference.

## MERGE/DIVERGE FLOWS

The traffic flows for the merges and diverges at the junctions listed below will be output from the model and tabulated in an Excel workbook. Separate tables for AM and PM peak hours will be produced. These tables will show flows from Option 1 only (i.e. the flows with the Local Plan in place).

- M1 J9
- M1 J8
- M1 / A414 interchange
- M1 J7/M25 J21A
- M25 J21
- M1 J6
- M25 J22
- A1(M)/A414

Proposed layout of Excel table:

Junction	Movement	Mainline Flow (veh)	Merge/Diverging Flow (veh)

WSP would issue the above information to HCC and SADC and identify the information which would need to be shared with National Highways either before or at the meeting on 29<sup>th</sup> January 2025.



## FEES

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Table 1 and Table 2 provide a breakdown of the fee by task and staff

**Table 1: St Albans Local Plan National Highways Task Costs**

<b>Tasks</b>
Flow plots
Entry flows at junctions
Merge/diverge flows
Project Management, Meeting Attendance and Preparation (18/12/24 and 29/1/25)
<b>Total</b>

## TIMESCALES

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The outputs will be produced as soon as possible and issued to HCC and St Albans, to discuss in advance of the next meeting with National Highways which is scheduled for 29<sup>th</sup> January 2025.