

# Memo

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Project/File: Wonthaggi North East PSP Date: 8 April 2022

#### Introduction

As part of their preparation of the Wonthaggi North Developer Contributions Plan (DCP), the Victorian Planning Authority (VPA) is seeking to understand the amount and type of usage of each DCP transport infrastructure project. The usage metric adopted by Stantec for this analysis is traffic volumes.

Relevant information representing internal and external traffic usage of each DCP transport infrastructure project has been extracted from modelling work previously completed by Stantec.

The purpose of this memorandum is to present the findings of the analysis of traffic modelling. These results should be considered alongside the need and nexus of each item.

### **Transport Model**

Traffic analysis is based on the Stantec report published November 10, 2021 (*Wonthaggi North East Precinct Structure Plan: Transport Impact Assessment*, reference V106370).

The modelled road network that has been adopted as the basis for DCP transport project designs and for the traffic calculations presented in this memo is the PSP without any bypass in the transport network.

Modelling was undertaken for the AM peak, PM peak and daily periods. The development year is 2046 which represents full development of the PSP and accounts for broader (general) growth in Wonthaggi and its surrounds.

### Infrastructure (DCP) Items

There are nine (9) intersections and two (2) roads included in the DCP which is shown in Figure 1.

Reference: 301400694

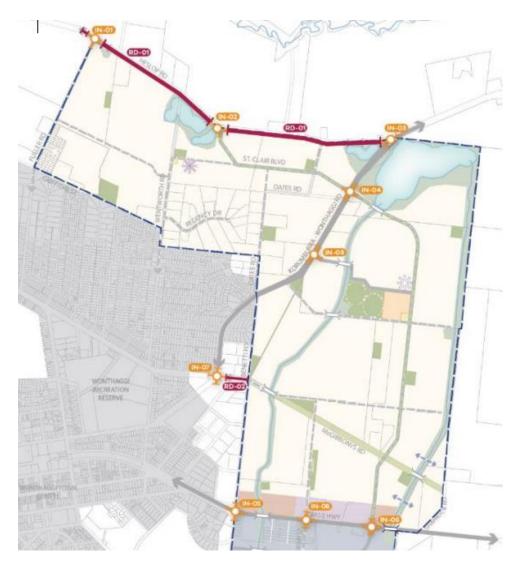


Figure 1: Transport infrastructure items included in the DCP and assessed using traffic modelling

Each of these items have been assessed in terms of their level of traffic usage.

## Methodology

The following steps were undertaken to determine the level of traffic usage of each transport infrastructure project:

- Step 1: extract total traffic on each relevant link.
- Step 2: use select link analysis (SLA) method to extract the level of internal (PSP generated) and external (non-PSP generated) traffic.

Reference: 301400694

### **Results**

The results of the traffic usage analysis for the three time periods are presented in Table 1 through Table 3.

Table 1: AM Peak - No Bypass Scenario

Item No.	Name	PSP Proportion	Total traffic Volumes
IN-01	Heslop Road / Fuller Road	233	258
IN-02	Heslop Road / St Clair Boulevard	186	212
IN-03	Korumburra Road / Heslop Road	196	527
IN-04	Korumburra Road / St Clair Boulevard	923	1248
IN-05	Bass Highway / Carneys Road	859	2139
IN-06	Bass Highway / St Clair Boulevard	917	1996
IN-07	Korumburra Road / McGibbonys Road (already constructed)	849	1406
IN-08	Bass Highway / John Street	859	2139
IN-09	Korumburra-Wonthaggi Rd / Proposed Connector Street	518	831
RD-01	Heslop Rd (from Fuller Rd to Korumburra-Wonthaggi Rd)	785	900
RD-02	McGibbonys Road (245m construction of Local Access Street Level 2)	506	620

Table 2: PM Peak - No Bypass Scenario

Item No.	Name	PSP Proportion	Total traffic Volumes
IN-01	Heslop Road / Fuller Road	365	400
IN-02	Heslop Road / St Clair Boulevard	258	290
IN-03	Korumburra Road / Heslop Road	192	532
IN-04	Korumburra Road / St Clair Boulevard	1166	1497
IN-05	Bass Highway / Carneys Road	1083	2482
IN-06	Bass Highway / St Clair Boulevard	1178	2947
IN-07	Korumburra Road / McGibbonys Road (already constructed)	1122	1775
IN-08	Bass Highway / John Street	1083	2482
IN-09	Korumburra-Wonthaggi Rd / Proposed Connector Street	813	1132
RD-01	Heslop Rd (from Fuller Rd to Korumburra-Wonthaggi Rd)	921	1045
RD-02	McGibbonys Road (245m construction of Local Access Street Level 2)	680	800

Reference: 301400694

Table 3: Daily - No Bypass Scenario

Item No.	Name	PSP Proportion	Total traffic Volumes
IN-01	Heslop Road / Fuller Road	1682	1859
IN-02	Heslop Road / St Clair Boulevard	1217	1388
IN-03	Korumburra Road / Heslop Road	951	2783
IN-04	Korumburra Road / St Clair Boulevard	6274	8064
IN-05	Bass Highway / Carneys Road	5815	13249
IN-06	Bass Highway / St Clair Boulevard	5828	13737
IN-07	Korumburra Road / McGibbonys Road (already constructed)	6109	9608
IN-08	Bass Highway / John Street	5815	13249
IN-09	Korumburra-Wonthaggi Rd / Proposed Connector Street	4152	5868
RD-01	Heslop Rd (from Fuller Rd to Korumburra-Wonthaggi Rd)	4873	5584
RD-02	McGibbonys Road (245m construction of Local Access Street Level 2)	3717	4336