W: www.bitziosconsulting.com.au

Brisbane Level 2, 428 Upper Edward Street Spring Hill QLD 4000 P: (07) 3831 4442 Sydney Studio 203, 3 Gladstone Street Newtown NSW 2042 **P:** (02) 9557 6202

E: admin@bitziosconsulting.com.au



M: PO Box 5102 Q Super Centre Mermaid Waters QLD 4218

Our reference: P5825.002L Woodville Road Corridor TTS Report Addendum.docx

#### 14 January 2025

16 Memorial Avenue PO Box 42 Merrylands NSW 2160

Attention: Janine Saab Sent via email: Janine.Saab@cumberland.nsw.gov.au

#### Dear Janine

#### RE: WOODVILLE ROAD CORRIDOR TRAFFIC AND TRANSPORT STRATEGY POST-GATEWAY REPORT ADDENDUM

Bitzios Consulting previously prepared a traffic and transport strategy report in November 2023 to support the Woodville Road Corridor Planning Proposal.

It is understood that the Woodville Road Corridor Planning Proposal was submitted for and received Gateway approval, conditional on a number of items. It is further understood that some minor changes to the yields of the Planning Proposal sites have been made since the last revision of our report.

This letter summarises our review and evaluation of the latest documentation for the Planning Proposal, and provides commentary to address Gateway conditions pertaining to traffic and transport.

This letter should be read in conjunction with **P5825.006R Woodville Road Corridor Traffic and Transport Strategy Report** as an addendum to the main report.

#### 1. Planning Proposal Site Changes

#### 1.1. Additional Sites

Two (2) additional sites have been added to the Planning Proposal scope, for a new total of 31 sites (from 29). The two additional sites, Sites 30 and 31, are located on the southern side of the Merrylands East Precinct as shown in Figure 1.1



Source: Woodville Road Corridor Planning Framework – Amended Urban Design Report (CM+, December 2024)

#### Figure 1.1: New Site Locations



# 1.2. Site Yield Changes

In additional to the new sites, a number of changes have been made to select sites across the study area. These changes include:

- Site 2 changes to site FSR splits resulting in reduction in residential GFA and dwellings
- Site 15 changes to zoning typology on this site from townhouses to R4 for the entire site
- Site 23 reduction in permissible building height from 9 storeys to 4 storeys for rear-facing sites
- Site 24 reduction in permissible building height from 9 storeys to 4 storeys for rear-facing sites.

These changes are summarised in Table 1.1

| Site | Dresingt        | No. of Proposed Dwellings |               |                |  |  |  |
|------|-----------------|---------------------------|---------------|----------------|--|--|--|
| Site | Precinct        | Previous                  | New           | Change         |  |  |  |
| 2    | Woodville North | 113 dwellings             | 92 dwellings  | -21 dwellings  |  |  |  |
| 15   | Woodville North | 164 dwellings             | 170 dwellings | +6 dwellings   |  |  |  |
| 30   | Merrylands East | -                         | 85 dwellings  | +85 dwellings  |  |  |  |
| 31   | Merrylands East | -                         | 88 dwellings  | +88 dwellings  |  |  |  |
| 23   | Woodville South | 597 dwellings             | 501 dwellings | -96 dwellings  |  |  |  |
| 24   | Woodville South | 549 dwellings             | 408 dwellings | -141 dwellings |  |  |  |
|      |                 |                           | Total         | -79 dwellings  |  |  |  |

#### Table 1.1: Masterplan Yield Changes

#### 1.3. Overall Masterplan Changes

The overall built form masterplan yield changes in the Planning Proposal sites are summarised in Table 1.2.

| Precinct                    | Previous               | New                    |
|-----------------------------|------------------------|------------------------|
| Aggregate site area         | 219,474 m <sup>2</sup> | 229,094 m <sup>2</sup> |
| Total residential yield     | 370,364 m <sup>2</sup> | 362,035 m <sup>2</sup> |
| Total non-residential yield | 20,788 m <sup>2</sup>  | 20,102 m <sup>2</sup>  |
| Total Population            | 10,349 persons         | 10,187 persons         |
| Total Dwellings             | 3,696 dwellings        | 3,617 dwellings        |



# 2. Traffic Generation Changes

As a result of the site changes detailed in Section 1, traffic generation for the Planning Proposal sites have been updated to reflect the modified/new sites. The corresponding calculations and changes are summarised below in Table 2.1 and detailed in **Attachment A**.

| Net Trip Concretion | Number of Trips     |           |           |  |  |  |
|---------------------|---------------------|-----------|-----------|--|--|--|
| Net Trip Generation | Previous            | New       | Change    |  |  |  |
| AM Peak             |                     |           |           |  |  |  |
| Woodville North     | 176 trips           | 167 trips | -9 trips  |  |  |  |
| Merrylands East     | 397 trips           | 415 trips | +18 trips |  |  |  |
| Woodville South     | 314 trips 255 trips |           | -59 trips |  |  |  |
|                     |                     | Total     | -50 trips |  |  |  |
| PM Peak             |                     | ·         |           |  |  |  |
| Woodville North     | 162 trips           | 153 trips | -9 trips  |  |  |  |
| Merrylands East     | 630 trips           | 640 trips | +10 trips |  |  |  |
| Woodville South     | 349 trips           | 290 trips | -59 trips |  |  |  |
|                     | ·                   | Total     | -58 trips |  |  |  |

Table 2.1: Trip Generation – Previous vs. New

The trip generation changes can therefore be summarised as:

- A minor decrease in trip generation in the Woodville North Precinct, as associated with the small changes to Sites 2 and 15
- An increase in trip generation in the Merrylands East Precinct, as associated with yields corresponding to the two new Sites 30 and 31
- A notable decrease in trip generation in the Woodville South Precinct, as associated with the reduction in building heights (and therefore number of dwellings) at Sites 23 and 24.

The overall traffic generation across the Masterplan is noted to be reduced compared to the yields adopted for traffic modelling as part of the Woodville Road Corridor TTS.

It is further noted that the change in traffic generation in each precinct, ranging from a difference of around 10 to 50 trips in the peak hour, represents a very small change in traffic volumes on Woodville Road. With modelled volumes of around 3,000 vehicles per hour (bidirectional), the Planning Proposal site changes represent a 0.3% to 2% change in traffic volumes along the major corridor. It is further noted that the upper spectrum of the change is negative in nature, being a reduction in traffic when compared to the modelled volumes.

For these reasons, updates to the traffic modelling have not been undertaken as part of this addendum to the report and it is considered that the traffic impact associated with the changes to the latest Masterplan relative to the previous iteration are negligible and will not have a significant impact on assessment findings.



# 3. Changes to Strategic Transport Measures and Recommendations

#### 3.1. Overview

Our review of the proposed changes to the Woodville Road Corridor Masterplan has confirmed that we do not expect any significant impacts or changes to our previous assessment detailed in the TTS report.

However, the following sections detail our comments regarding the recommended strategic transport measures for each precinct.

#### **3.2. Woodville North Precinct**

No comments. The proposed site changes do not affect the recommendations for this precinct.

#### 3.3. Merrylands East Precinct

Two new sites have been added in the southern side of the Precinct. The majority of the transport measures for this Precinct focused on improving active and public transport accessibility near Oxford Street and Lansdowne Street, including capacity upgrades and new pedestrian facilities near the John Cootes site.

The new sites are noted to be located on the southern side of the precinct, and are not subject to the majority of the benefits from these recommendations. At the same time, similarly to the previous Site 18, these sites are not conveniently located for catering for significant uplift. As Woodville Road is primarily a free-flow traffic corridor at this location (not near any traffic signals or other major intersections), it presents a significant obstacle for travel.

It is recommended that Council explore options to:

- Improve local network active transport accessibility and/or crossing opportunities in the 750m section of Woodville Road between Oxford Street and Guildford Road
- Enhance local corridors like Excelsior Street to the east to provide safer active transport connections to the busier Precinct hearts.

#### 3.4. Woodville South Precinct

See comments for Merrylands East Precinct. Where Site 29 was previously a single isolated site, it now forms part of an inter-precinct cluster of sites (Sites 29, 30, and 31) at this location. There is increased value in providing improved services and facilities at this location as a reflection of the increased density of the proposed land use in this area.



# 4. Response to Gateway Conditions

# 4.1. Appropriateness of Traffic Generation Rates

The adopted traffic generation rates are summarised in Table 4.1.

| Land Use                            | Rate(s)   | Source   | Comments   |
|-------------------------------------|---|--|--|
| Medium<br>density<br>residential    | <ul> <li>AM peak: 0.5<br/>trips / dwelling</li> <li>PM peak: 0.5<br/>trips / dwelling</li> </ul>                | Guide to Traffic<br>Generating<br>Developments<br>(GTTGD) 2002 | In comparison to the latest Guide to Traffic Impact<br>Assessments 2024 (GTIA 2024), we note that the adopted<br>rates are higher and therefore more conservative for<br>medium density housing.   |
| High density<br>residential         | <ul> <li>AM peak: 0.19<br/>trips / dwelling</li> <li>PM peak: 0.15<br/>trips / dwelling</li> </ul>              | TDT 2013/04a   | <ul> <li>Adopted rates are for average Sydney rates based on surveys on a number of sites. In comparison to the GTIA 2024 rates, we note that the adopted rates match the same rates in the latest standard.</li> <li>It is acknowledged that these rates are appropriate for areas with 'high public transport accessibility', with the requirement for applying these rates being within 800m of a major transport interchange or multiple public transport services with acceptable capacity.</li> <li>Woodville North sites are mostly or very close to being within 800m catchment of the Merrylands Train Station</li> <li>Merrylands East sites is generally outside of an 800m catchment of Merrylands and Guildford Train Stations</li> <li>Woodville South sites are mostly just outside of the 800m catchment of Guildford Train Station</li> <li>All developments are serviced by public transport (bus) facilities along Woodville Road, with the three Precincts centred around connecting roads like William Street, Merrylands Road, and Guildford Road.</li> <li>Therefore, with respect to the borderline proximity of the developments to the train stations, and the close proximity to existing or proposed public transport services, these traffic generation rates are considered</li> </ul> |
| Commercial                          | <ul> <li>AM peak: 2.1<br/>trips per 100m2<br/>GFA</li> </ul>  | TDT 2013/04a   | <ul> <li>appropriate for use.</li> <li>We adopted traffic generation rates for Site OB5 (16<br/>Giffnock Avenue Macquarie Park) from TfNSW's<br/>guidelines as opposed to average Sydney rates for</li> </ul>  |
|                                     | <ul> <li>PM peak: 1.8<br/>trips per 100m2<br/>GFA</li> </ul>  |  | <ul> <li>the commercial land use.</li> <li>This was considered to be more appropriate as a number of other surveyed sites were very close to railway hubs, thus ensuring a more conservative assessment for employment uses</li> </ul>   |
| Retail                              | <ul> <li>AM peak: 2.5<br/>trips per 100m2<br/>GFA</li> <li>PM peak: 5 trips<br/>per 100m2 GFA</li> </ul>        | GTTGD 2002   | <ul> <li>Retail trip generation rates were adopted from typical restaurant peak hour trip generation rates. This was considered to be appropriate given the expected food-orientated nature of the majority of retail land use.</li> <li>Shopping centre traffic generation rates were adopted</li> </ul>  |
| Shopping<br>Centre<br>(Supermarket) | <ul> <li>AM peak: 5.8<br/>trips per 100m2<br/>GFA</li> <li>PM peak: 11.6<br/>trips per 100m2<br/>GFA</li> </ul> | Stantec report<br>GTTGD 2002                                   | <ul> <li>Inopping centre traine generation rates were adopted from the Merrylands East Neighbourhood Centre Traffic Impact Assessment and associated traffic assessment by Stantec 2021-2022</li> <li>These rates are noted to be based on traffic generation rates for shopping centres from GTTGD 2002.</li> </ul>   |

 Table 4.1: Traffic Generation Rates



In addition to the above justifications, we note that the proposed public transport initiatives and travel demand management measures identified in each precinct's Integrated Strategic Transport Measure map seek to encourage a mode shift from private to public modes of transportation in line with the overarching principle of the urban design masterplan and transport strategy. The proposal of these transport initiatives seeks to facilitate better routes and connections to nearby stations. Simultaneously, the recommendations pursue stricter parking controls across the subject sites, with lowered or capped parking rates for new sites.

We therefore consider the selected traffic generation rates as appropriate for the purposes of this 'Vision and Validate' assessment. The rates are in alignment with the transport vision for the Woodville Road Corridor as established through the principles of the Cumberland 2030 Local Strategic Planning Statement.

Finally, for the purposes of understanding the implications of adopting favourable traffic generation for high density residential trip generation, we've prepared the following comparison:

- The TfNSW GTIA 2024 rate for high density residential dwellings with low public transport accessibility in the sub-metropolitan area in the AM peak is: 0.19 \* P + 1.79, where P is the number of parking spaces
- Assuming a provision of 1 parking space per dwelling (for high density residential, this would on average be a generous allowance for studios, 1-bed and 2-bed units), the rate becomes very similar to that of the high density residential with high public transport accessibility (0.19 \* D, where D is the number of dwellings).

This therefore demonstrates that there will be little difference in the overall traffic outcomes, and the adopted 'transit-orientated' traffic generation rates are unlikely to underestimate the traffic impacts of the proposed development.

#### 4.2. Traffic Capacity Improvements

The Road Network (RN) upgrades proposed in the Woodville Road Corridor TTS are summarised in Table 4.2. Of these, the upgrades which are considered road capacity upgrades or road closures are highlighted in blue for clarity.

| Type/ID | Location                               | Description  |  |  |  |
|---------|--|--|--|--|--|
| RN-1    | Woodville Road /<br>Randle Street      | New pedestrian crossing on the western approach                                  |  |  |  |
| RN-2    | Woodville Road /<br>William Street     | grades to signalised intersection  |  |  |  |
| RN-3    | Woodville Road /<br>Randle Street      | Upgrade existing pedestrian crossing to a shared pedestrian and cyclist crossing |  |  |  |
| RN-4    | William Street /<br>Bennalong Road     | New crossing facility for cyclists across William Street                         |  |  |  |
| RN-5    | Merrylands Road /<br>Bennalong Road    | New crossing facility for cyclists across Merrylands Road                        |  |  |  |
| RN-6    | Woodville Road /<br>Louis Street       | Upgrade existing pedestrian crossing to a shared pedestrian and cyclist crossing |  |  |  |
| RN-7    | Partial segment of<br>Union Street     | Road closure as part of uplift development to provide future open spaces         |  |  |  |
| RN-8    | Partial segment of<br>Elizabeth Street | Road closure as part of uplift development to provide future open spaces         |  |  |  |

#### Table 4.2: Road Network Upgrades



| Type/ID | Location                                    | Description  |
|---------|---|--|
| RN-9    | Partial segment of<br>Brady Street          | Road closure as part of uplift development to provide future open spaces |
| RN-10   | Woodville Road /<br>Lansdowne Street        | Upgrade intersection with new traffic signals                            |
| RN-11   | Woodville Road /<br>Oxford Street           | Upgrades to signalised intersection                                      |
| RN-12   | Near Lansdowne<br>Street / Lamb<br>Crescent | New crossing facility for cyclists crossing Lansdowne Street             |
| RN-13   | Partial segment of<br>Kenelda Avenue        | Road closure as part of uplift development to provide future open spaces |
| RN-14   | Woodville Road /<br>Guildford Road          | Upgrades to signalised intersection                                      |
| RN-15   | Guildford Road /<br>Chamberlain Road        | Upgrade intersection to seagull or roundabout intersection               |
| RN-16   | Woodville Road /<br>Rawson Road             | Upgrades to signalised intersection                                      |
| RN-17   | Woodville Road<br>near Rhodes<br>Avenue     | New mid-block signalised pedestrian crossing                             |
| RN-18   | Partial segment of Rhodes Avenue            | Road closure as part of uplift development to provide future open spaces |

There are therefore a total of six (6) intersection capacity improvements and five (5) road closures.

The intersection capacity upgrades can be divided into two categories:

- Upgrades to existing signalised intersections to provide additional capacity (William Street RN-2, Oxford Street RN-11, Guildford Road RN-14, and Rawson Road RN-16).
- Upgrades to existing priority intersections to new intersection control types to accommodate the increased traffic flows from the Planning Proposal uplift (Lansdowne Street RN-10 and Guildford Road / Chamberlain Road RN-15).

These intersection capacity upgrades align with the Woodville Road Corridor Structure Plan target of providing an "*urban hub in each precinct to serve the local community*". Improved ability for traffic movements to turn and pass through the key 'bottleneck' intersections facilitates better accessibility to each of the urban hubs, and the provision of new signalised crossings aligns with the main urban design principle of enhancing active transport across the corridor. Furthermore, the majority of proposed capacity upgrades do not involve widening of the road, and do not otherwise compromise the convenience, amenity or safety of pedestrians, cyclists and public transport users. The upgrades seek to achieve reductions in traffic congestion and safer crossing facilities that work hand in hand to deliver a more cohesive transport network for all road users.

The proposed road closures were tested as part of the Project Case microsimulation modelling for the TTS via the application of traffic management policies (lane closures) and/or adjustments to zone connectors to reflect closed roads. The road network was determined to be capable of accommodating the proposed closures, noting that the majority are on minor local roads with minimal existing traffic volumes. The public domain benefits are considered to outweigh the minor traffic impacts at these locations.



Yours faithfully

Jeffrey Yang Senior Traffic Engineer and Transport Planner BITZIOS CONSULTING

Attachments: *A: Traffic Generation and Demand Development Tech Note* 

# **Attachment A**

Traffic Generation and Demand Development Tech Note





| File Name   | Prepared            | Reviewed | Issued by | Date       | Issued to   |
|---|---------------------|----------|-----------|------------|---|
| P5825.001T Woodville Road Corridor Planning<br>Framework TTS Demand Development | R. Jain             | A.Grey   | J. Yang   | 12/04/2023 | Janine Saab via email:<br>janine.saab@cumberland.nsw.gov.au |
| P5825.002T Woodville Road Corridor Planning<br>Framework TTS Demand Development | J.Yang              | A.Grey   | J. Yang   | 20/04/2023 | Janine Saab via email:<br>janine.saab@cumberland.nsw.gov.au |
| P5825.003T Woodville Road Corridor Planning<br>Framework TTS Demand Development | R. Jain /<br>J.Yang | A.Grey   | J. Yang   | 9/05/2023  | Janine Saab via email:<br>janine.saab@cumberland.nsw.gov.au |
| P5825.004T Woodville Road Corridor Planning<br>Framework TTS Demand Development | A. Hu               | J. Yang  | J. Yang   | 19/12/2024 | Janine Saab via email:<br>janine.saab@cumberland.nsw.gov.au |
| P5825.005T Woodville Road Corridor Planning<br>Framework TTS Demand Development | A. Hu               | J. Yang  | J. Yang   | 14/01/2025 | Janine Saab via email:<br>janine.saab@cumberland.nsw.gov.au |

# Woodville Road Corridor Traffic and Transport Study

# **Demand Development Technical Note**

# 1. Introduction

# 1.1 Background

Cumberland City Council commissioned Bitzios Consulting to undertake a Traffic and Transport Study (TTS) to support the delivery of the new planning framework for the Woodville Road Corridor. This TTS involved coordination with the Urban Design team to provide input into the traffic and transport implications of the proposed uplift in key precincts along the Woodville Road corridor.

As a part of TTS, future design year AIMSUN models were developed for future year growths based on traffic demands accounting for proposed uplift of key precincts.

This technical document outlines the latest future year traffic calculations associated with the proposed Planning Proposal uplift of key precincts and the relevant land use and traffic generation assumptions.

# 1.2 Modelled Area

The modelled area is a focused corridor cordoned close to Woodville Road, between the Parramatta and Road / M4 on-ramp intersection and the Woodville Road water supply pipe crossing near Springfield Street.



The modelled area is shown in Figure 1.1.

Adapted from OpenStreetMap

#### Figure 1.1: Modelled Area



# 2. Planning Proposal Development

# 2.1 **Overview**

There are three (3) key precincts planned along the Woodville Road Corridor, targeting specific land use and built form density changes at 31 discrete Planning Proposal sites. The sites are divided among the precincts as follows:

- Woodville North Precinct: Sites 1-15
- Merrylands East Precinct: Sites 16-21, 30 and 31.
- Woodville South Precinct: Sites 22-29.

An overview of the precincts and planning proposal sites is shown in Figure 2.1.



Source: CM+ Figure 2.1: Overview of Development Precincts



Land use and yield information for each of the sites in terms of residential and business growth have been supplied by CM+ as part of the following documents:

- Built Form Masterplan Workshop slides (dated 28 November 2022)
- Final Urban Design Report (dated 05 December 2024)
- WRC Amended Urban Design Report Updated Site Yields v2 (dated 8 January 2025).

The latest yield breakdown is provided in Attachment A.

Furthermore, other documents reviewed included:

- Merrylands East Neighbourhood Centre Traffic Impact Assessment (Stantec, dated 9 February 2021)
- 246-264 Woodville Road Merrylands Traffic and Parking Assessment Letter (Stantec, dated 22 April 2022)
- Planning Proposal Merrylands East Local Centre (Green Dior Holdings Pty Ltd, dated 29 April 2022).

These documents were reviewed to inform the development of traffic generation assumptions for this assessment.

The Masterplan was noted to include three (3) growth scenarios ranging from Low Growth, Medium (Base) Growth and High Growth. It is understood that Council has decided to proceed with the 'Base Case' growth scenario. Therefore, the relevant information used to form the residential and business traffic growth assumptions described in the following sections has been based on the Medium (Base) Case yields.

# 2.2 **Residential and Employment Growth**

#### 2.2.1 Overview

The overall Masterplan comprises the following land uses and yields along the corridor:

- A total aggregate site area of 229,094m<sup>2</sup> across all 31 sites
- A total residential yield of 362,035m<sup>2</sup> gross floor area (GFA):
  - Associated increase in population projected to be around 10,187 persons
  - Corresponding increase in number of dwellings projected to be around 3,617 dwellings
- A total non-residential yield of 20,102m<sup>2</sup> GFA:
  - Can be formed by some combination of retail, commercial and shopping centre land uses
  - Industrial land use is not planned at any of the sites.

The proposed land zoning is shown in Figure 2.2.





Source: Draft Urban Design Masterplan (CM+)

# Figure 2.2: Land Zoning Map

The floor space ratio (FSR) map is shown in Figure 2.3.



Source: Draft Urban Design Masterplan (CM+)

#### Figure 2.3: Floor Space Ratio Map

Most sites are exclusively a single type of land use and FSR. Where one of the sites spans multiple land uses, a portion of the site GFA was allocated to each use based on the available information.



## 2.2.2 Woodville North Precinct

The Woodville North Precinct comprises 15 of 31 sites, with the following proposed yields within the precinct:

- A total aggregate site area of 80,724m<sup>2</sup>
- A total residential yield of 136,833m<sup>2</sup> gross floor area (GFA):
  - Associated increase in population projected to be around 3,891 persons
  - Corresponding increase in number of dwellings projected to be around 1,368 dwellings
- A total non-residential yield of 1,776m<sup>2</sup> GFA.

The planned uplift in the Woodville North Precinct is noted to be primarily residential in nature, with a relatively small allocation of land for ancillary retail and commercial facilities.

The following site-specific observations were made:

#### Site 2

Site 2 is a triangle site bounded by Woodville Road, Union Street and Wallace Street. The land zoning map indicates that it is proposed to be composed of both R4 High-Density Residential and Open Space land uses. An overall FSR of 1.8:1 applies to the subject site, with the following site yields being based on the incentive outcome with bonus uplift at the site:

- Site area: 6,301m<sup>2</sup>
- Residential GFA: 9,208m<sup>2</sup>.

It is understood that the base FSR control will apply to the site in the case that the site cannot be amalgamated, and no open space can be provided.

The above site yields have been adopted for the purpose of the conservative 'worst-case' traffic assessment.

#### 2.2.3 Merrylands East Precinct

The Merrylands East Precinct comprises 8 of 31 sites, with the following proposed yields within the precinct:

- A total aggregate site area of 58,379m<sup>2</sup>
- A total residential yield of 100,015m<sup>2</sup> gross floor area (GFA):
  - Associated increase in population projected to be around 2,791 persons
  - Corresponding increase in number of dwellings projected to be around 997 dwellings
- A total non-residential yield of 11,871m<sup>2</sup> GFA.

The planned uplift in the Merrylands East Precinct is noted to comprise significant levels of both residential and retail/commercial growth. The core of this precinct is the Merrylands East Local Centre, previously known as the John Cootes site, located at Site 17.

The following site-specific observations were made:

#### Site 16

Site 16 is an irregular site adjacent to Woodville Road and Lansdowne Street comprising Other E Zone, R4 High Density Residential and R3 Medium Density Residential land uses.

To determine the dwelling splits between high and medium density units for trip generation calculations, the areas and GFAs for each portion of the site was determined from the



available total site area and GFA and associated FSR for each land use. This data was supplemented by manual measurements of the site division via Sixmaps satellite imagery. The resulting land use breakdown adopted for the purposes of this traffic assessment is as follows:

- R3 Medium Density: 2,353m<sup>2</sup> GFA (20 dwellings)
- R4 High Density: 4,753m<sup>2</sup> GFA (48 dwellings)
- Other E Zone (residential development): 8,278m<sup>2</sup> GFA (83 dwellings).

#### Merrylands East Local Centre (Site 17)

Merrylands East Local Centre, previously known as the John Cootes site, located at Site 17 is planned to be a large-scale E1 Local Centre for the precinct and also for the wider Corridor as a whole, with dense uplift of both residential and retail components at the site. The proposed development yields provided include:

- Residential GFA: 54,722m<sup>2</sup> GFA (547 dwellings)
- Non-residential GFA: 10,951m<sup>2</sup> GFA.

It is noted that while these differ slightly from the original Merrylands East Local Centre Planning Proposal (April 2022), the proportions of the development types are generally similar. The aforementioned Planning Proposal uses included shopping centre, specialty retail, hotels and serviced apartments, childcare centres and car wash facilities. Based on the provided information, for the purpose of this traffic assessment the non-residential land uses at this site were assumed to be divided between specialty retail and shopping centre uses:

- Specialty Retail: 7,301m<sup>2</sup> GFA (67%)
- Shopping Centre: 3,650m<sup>2</sup> GFA (33%).

#### 2.2.4 Woodville South Precinct

The Woodville South Precinct comprises 8 of 31 sites, with the following proposed yields within the precinct:

- A total aggregate site area of 89,991m<sup>2</sup>
- A total residential yield of 125,187m<sup>2</sup> gross floor area (GFA):
  - Associated increase in population projected to be around 3,505 persons
  - Corresponding increase in number of dwellings projected to be around 1,252 dwellings
- A total non-residential yield of 6,455m<sup>2</sup> GFA.

The planned uplift in the Woodville South Precinct is divided between both residential and retail/commercial growth. There is a moderate amount of growth for retail/commercial land use, with a neighbour centre located around the intersection of Woodville Road and Guildford Road. It is anticipated that the area would be characterised by mixed-use buildings with ground-level food retail like restaurants and cafés, as well as some commercial offices; however, it is noted that specifics on tenancies will be determined at a later stage.

The following site-specific observations were made:

#### Site 24

Site 24 is an irregular site adjacent to Woodville Road, Rhodes Avenue and Henry Street planned to be exclusively R4 High Density Residential land use. Despite this, it was noted that the planned yields for the site include 1,440m<sup>2</sup> GFA of non-residential land use.



As commercial premises are prohibited in R4 zones, it was therefore assumed that 100% of the site's non-residential land use was for ancillary retail facilities.

It is understood that while an overall FSR of 1.8:1 applies to Site 24, two (2) sites are considered to be 'constrained' by having 8+ owners and remain unchanged in terms of planning controls or new development. Due to its resulting isolation, one of the sub-sites in Site 24 cannot be amalgamated and subsequently cannot make use of any incentives and maintains a base FSR of 1:1.

Notwithstanding the above, the adopted traffic calculations assume the worst-case development scenario based on the preferred site amalgamation and incentive outcome.

# 2.3 Strategic Growth

The strategic traffic growth external to the network has been acquired from the TfNSW STFM cordon matrices for the study area. This data will form the foundation of the future year base case traffic demand matrices. The total STFM traffic demand is summarised in Table 2.1.

| Year               | Total Trips Ge | Total Trips Generated (veh) |  |  |  |
|--------------------|----------------|-----------------------------|--|--|--|
| rear               | AM Peak        | PM Peak                     |  |  |  |
| 2021               | 21,241         | 22,745                      |  |  |  |
| 2031               | 26,231         | 27,412                      |  |  |  |
| 2021 – 2031 Growth | +4,989 trips   | +4,667 trips                |  |  |  |

#### Table 2.1 Trips Generated (Gross)

The projected 10-year growth is around 23% in the AM peak and 21% in the PM peak, corresponding to traffic growth of around **2% linear growth p.a**.

It is noted that the future year population and employment demographics for the Travel Zones which encompass the study area assumes some level of increase in line with the current land controls, but does not include any Planning Proposal land use changes.



# 3. Traffic Generation

# 3.1 Traffic Rates

The estimation of trip generation was primarily sourced from applicable traffic rates from the following documents:

- RTA's Guide to Traffic Generating Developments, Version 2.2, October 2002 (GTTGD 2002)
- Technical Direction Guide to Traffic Generating Developments Updated traffic surveys (TDT 2013/04a).

# 3.2 **Residential Land Use Assumptions**

The proposed sites include R3 and R4 residential land use, representing medium-density and high-density housing respectively. However, residential uses are also present in Other E Zone and E1 Local Centre zones. For the purposes of this assessment, it was assumed that these would take the form of mixed-use buildings with high-density land use for the residential components of the site (e.g. apartment units with ground-floor retail).

The following ratios and calculations were adopted from CM+ assumptions on developing the proposed built form land use yields:

- Floor Space Ratio = Gross Floor Area / Site Area
- Average household size = 2.8 persons per dwelling
- For R4 High Density Residential:
  - GFA to Net Saleable Area (NSA) ratio: 85%
  - No. Dwellings = NSA / 85m<sup>2</sup>
- For R3 Medium Density Residential:
  - No. Dwellings = GFA / 120m<sup>2</sup>.

Trip generation rates for residential land use was adopted from *TDT 2013/04a* for high density residential and *GTTGD 2022* for medium density residential.

# 3.3 Non-Residential Land Use Assumptions

#### 3.3.1 Land Use Splits

Non-residential land use was generally zoned as either E1 Local Centre or Other E Zones (B1 Neighbourhood Centre, B4 Mixed Use, B5 Business Development or B6 Enterprise Corridor). Where not directly stipulated, it was assumed non-residential land use was divided between retail and commercial uses. Industrial land use is not proposed in any of the subject sites along the Woodville Road Corridor.

In each of the key precincts, for the purpose of traffic generation calculations the nonresidential GFA provided has been split between retail and commercial land use in the following ways:

- Woodville North Precinct:
  - This precinct is planned to have a strong residential character, with some minor business use around Merrylands Road. It was assumed that ancillary retail facilities (like cafés, small neighbourhood shops and services, etc) would be the most appropriate non-residential land use within this precinct.
  - Therefore, the non-residential use is assumed to be **100% retail.**
- Merrylands East Precinct:



- This precinct is planned to cater the new Local Centre for the Woodville Road Corridor, with a mix of uses including major employment opportunities. Site 17, Merrylands East Local Centre, is assumed to be a major shopping and retail centre. The remaining B Zone land uses were assumed to be divided equally between retail (like cafés, restaurants and shops) and commercial facilities (business offices) to reflect the planned mix of employment within this precinct.
- Therefore, the non-residential use is assumed to be **50% retail** and **50% commercial** (unless otherwise stipulated).
- Woodville South Precinct:
  - This precinct is planned to offer a balance between higher density living and employment opportunities, with a smaller neighbourhood centre around Guildford Road. It was assumed that a mix of retail and commercial facilities would be appropriate for this area to reflect the mix of uses.
  - Therefore, the non-residential use is assumed to be **50% retail** and **50% commercial** (unless otherwise stipulated).

#### 3.3.2 Shopping Centres

The peak hour trip generation rates for shopping centres were adopted from the Stantec traffic assessments for the Merrylands East Local Centre (now Site 17 as part of this Planning Proposal). These rates are based on the traffic generation rates for shopping centres from the *GTTGD 2002*.

The following reductions have been included in these rates:

- Trips to shopping centres typically result in 'chain trips' and 'multi-purpose trips'. To allow for the incidence of these, the trip generation of the shopping centre is reduced by 25%.
- Trips to retail land uses are reduced during the AM peak compared to the PM peak due to typical post-peak shop opening times in the morning and general trip patterns. To allow for this, the trip generation of retail facilities were reduced by 50% in the AM peak only (unless a specific morning rate was otherwise stipulated).

#### 3.3.3 Retail Land Use

There are a wide range of potential retail land uses, including cafés, restaurants, neighbourhood shops, grocery stores, utility stores, hardware stores, etc. At this stage, retail tenancies are indeterminate and therefore an assumption must be adopted for the purpose of calculating traffic generation for the retail uses.

The general retail developments at the subject sites are assumed to be mainly foodorientated facilities such as restaurants and cafés. A comparison of trip generation rates for restaurants to other retail land uses generally indicates that a selection of retail rates similar to the restaurant rate is appropriate, and is unlikely to underestimate traffic generation (other facilities like bulky goods and hardware stores generally have lower trip generation rates).

Therefore, for the purpose of this assessment, the trip generation rate for 'general retail' land use has been adopted from the peak hour trip generation rate for restaurants.

The following reductions have been included in this rate:

 Trips to retail land uses are reduced during the AM peak compared to the PM peak due to typical post-peak shop opening times in the morning and general trip patterns. To allow for this, the trip generation of retail facilities were reduced by 50% in the AM peak only (unless a specific morning rate was otherwise stipulated).



#### 3.3.4 Commercial Land Use

The peak hour trip generation rates for commercial offices were sourced from *TDT* 2013/04a. It was noted that these average trip generation rates were based on surveys of a number of office blocks around Greater Sydney. However, a number of these sites were located in close proximity to major public transport hubs. The planned commercial developments along the Woodville Road Corridor are typically between 1-2km walk away from either Guildford or Merrylands train stations, thereby limiting (but not excluding) the effectiveness of public transport as a mode of travel.

To reflect the nature of the site, the traffic generation rates were adopted from Site OB5 (16 Giffnock Avenue Macquarie Park) site surveys instead of the average rates. The Macquarie Park site is located around 600m walk away from the train station (now Metro station), and therefore is posited as the best representation for the planned commercial sites along the Woodville Road Corridor.

#### 3.3.5 Open Space

Open space land use is proposed at a few locations along the corridor, comprising parks and other green spaces. It was assumed that these areas will generate a negligible number of vehicle trips during the peak hour periods.

# 3.4 **Trip Generation Calculations**

#### 3.4.1 Traffic Generation Rates

The trip generation rates used for each land use type as part of the Planning Proposal are outlined in Table 3.1.

| Landlia  | Trip Generation Rate |      |                                  |                                |  |  |  |
|--|----------------------|------|----------------------------------|--------------------------------|--|--|--|
| Land Use   | AM Peak PM Peak      |      | Units                            | Source                         |  |  |  |
| Medium Density<br>Residential                    | 0.5                  | 0.5  | Trips per Dwelling               | GTTGD 2002                     |  |  |  |
| High Density<br>Residential                      | 0.19                 | 0.15 | Trips per Dwelling               | TDT 2013/04a                   |  |  |  |
| Shopping Centre (Supermarket) <sup>1</sup>       | 5.8                  | 11.6 | Trips per 100m <sup>2</sup> GLFA | Stantec Report<br>(GTTGD 2002) |  |  |  |
| Shopping Centre (Speciality Retail) <sup>1</sup> | 1.7                  | 3.5  | Trips per 100m <sup>2</sup> GLFA | Stantec Report<br>(GTTGD 2002) |  |  |  |
| Retail (Generic) <sup>1</sup>                    | 2.5                  | 5    | Trips per 100m <sup>2</sup> GFA  | GTTGD 2002                     |  |  |  |
| Commercial<br>(Office)                           | 2.1                  | 1.8  | Trips per 100m <sup>2</sup> GFA  | TDT 2013/04a                   |  |  |  |
| Open Space                                       | -                    | -    | -                                | -                              |  |  |  |

#### Table 3.1: Trips Generation Rates – Planning Proposal Uses

1. Trip rate inclusive of reductions and discounts



## 3.4.2 Uplift Traffic Generation (Gross)

Based on the above rates and the provided development yields, the total trip generation is summarised in Table 3.2.

#### Table 3.2 Trips Generated (Gross)

| Precinct                 | Total Trips Generated (veh) |           |  |  |
|--------------------------|-----------------------------|-----------|--|--|
| Frechict                 | AM Peak                     | PM Peak   |  |  |
| Woodville North Precinct | 304                         | 293       |  |  |
| Merrylands East Precinct | 468                         | 697       |  |  |
| Woodville South Precinct | 391                         | 430       |  |  |
| Total                    | 1,163 veh                   | 1,420 veh |  |  |

Details on the estimated trip generation for each Planning Proposal site are provided in **Attachment B**.

These trip generation numbers include the total trip generation associated with the uplift development. However, it is noted that the sites in each precinct are not greenfield sites, and the proposed uplift is effectively a 'replacement' of the existing site. Therefore, the net traffic increase associated with the uplift must be calculated by subtracting the existing traffic generation of each site.

#### 3.4.3 Existing Site Controls Traffic Generation

The traffic generation representing the current planning controls has been assessed based on the type of land zoning and current permitted FSR for each of the sites. This represents the trip potential for the sites under the current approved land use, but does not include the existing (and retained) trip generation of any constrained sites.

The trip generation rates used for each existing land use type is shown in Table 3.3.

#### Trip Generation Rate Land Use AM Peak **PM Peak** Units Source Low Density 0.95 0.99 Trips per Dwelling TDT 2013/04a Residential Medium Density 0.5 0.5 Trips per Dwelling GTTGD 2002 Residential **Open Space** --

#### Table 3.3: Trips Generation Rates – Existing Uses

Site 17 (the John Cootes site) has been evaluated separately due to its unique site context. It is understood that there is an approved Development Application (DA 2020/0493) for the site, which projects a maximum residential potential for the site of 425 dwellings under the current planning controls, along with other retail and commercial land uses. However, this approved development is not included within the future land use projections for the corresponding STFM travel zone. The site is also noted to currently be significantly under-developed comparing to the permitted land use and FSR.

For the purposes of this assessment, the future traffic yield of the subject site as assumed by the STFM is estimated based on the existing site yield and increased in line with the predicted growth rate extracted from the TZP19 dataset for the corresponding zone (TZ Code 1250). Between 2016 and 2036, an average annual growth rate of 1.4% and 2.0% has been applied to the subject zone for population and employment respectively. For a



conservative assessment, a 2.0% annual growth rate has been adopted. These calculations are summarised in Table 3.4.

| Address                   | Lot / DP                  | Description                          | Trips – AM<br>(veh) | Trips – PM<br>(veh) |
|---------------------------|---------------------------|--------------------------------------|---------------------|---------------------|
| 244 Woodville Road        | A/379850                  | Single dwelling                      | 0.95                | 0.99                |
| 246 Woodville Road        | B/379850 &<br>C/379850    | Single dwelling                      | 0.95                | 0.99                |
| 248 Woodville Road        | 2/204284                  | Empty lot                            | 0                   | 0                   |
| 256 Woodville Road        | 4-7/128586<br>&1/433824   | Empty lot                            | 0                   | 0                   |
| 258-264 Woodville<br>Road | 2581/803841 &<br>1/382912 | Monster Furniture<br>Clearance Depot | 0 <sup>1</sup>      | O <sup>1</sup>      |
| 19 Highland Street        | F/382911                  | Empty lot                            | 0                   | 0                   |
| 2 Lansdowne Street        | 1/204284 &<br>A/418199    | Single dwelling                      | 0.95                | 0.99                |
| 4 Lansdowne Street        | A/409259                  | Single dwelling                      | 0.95                | 0.99                |
| 8 Lansdowne Street        | F/364338<br>&2/385967     | Single dwelling                      | 0.95                | 0.99                |
| 8A Lansdowne<br>Street    | 1/385967                  | Single dwelling                      | 0.95                | 0.99                |
| 10 Lansdowne<br>Street    | D/364338                  | Single dwelling                      | 0.95                | 0.99                |
| 12 Lansdowne<br>Street    | C/364338                  | Single dwelling                      | 0.95                | 0.99                |
| 14 Lansdowne<br>Street    | A/344408                  | Single dwelling                      | 0.95                | 0.99                |
| 16 Lansdowne<br>Street    | 81/128805                 | Single dwelling                      | 0.95                | 0.99                |
|                           |                           | Total                                | 9.5 veh             | 9.9 veh             |
|                           | Total + 2.0% ann          | ual growth (to 2031)                 | 11.2 veh            | 11.7 veh            |

1. For conservative assessment, trip generation assumed to be negligible due to site land use (furniture warehouse depot)

The calculated total trip generation potential for each of the precincts is summarised in Table 3.5.

#### Table 3.5 Trips Generated (Total Existing Potential)

| Province                 | Total Trip Potential (veh) |         |  |  |  |  |
|--------------------------|----------------------------|---------|--|--|--|--|
| Precinct                 | AM Peak                    | PM Peak |  |  |  |  |
| Woodville North Precinct | 137                        | 140     |  |  |  |  |
| Merrylands East Precinct | 53                         | 57      |  |  |  |  |
| Woodville South Precinct | 136                        | 140     |  |  |  |  |
| Total                    | 326 veh                    | 337 veh |  |  |  |  |

The site-by-site breakdown is shown in Attachment B.



## 3.4.4 Uplift Traffic Generation (Net)

The gross, existing and subsequent net growth in trip generation for the Planning Proposal sites is summarised in Table 3.6.

## Table 3.6 Trips Generated (Net)

|                          |                 |                       | Total Trip Po   | otential (veh)  |                       |                 |  |
|--------------------------|-----------------|-----------------------|-----------------|-----------------|-----------------------|-----------------|--|
| Precinct                 |                 | AM Peak               |                 | PM Peak         |                       |                 |  |
|                          | Uplift<br>Total | Existing<br>Potential | Net<br>Increase | Uplift<br>Total | Existing<br>Potential | Net<br>Increase |  |
| Woodville North Precinct | 304             | 137                   | 167             | 293             | 140                   | 153             |  |
| Merrylands East Precinct | 468             | 53                    | 415             | 697             | 57                    | 640             |  |
| Woodville South Precinct | 391             | 136                   | 255             | 430             | 140                   | 290             |  |
| Total                    | 1,163 veh       | 326 veh               | 847 veh         | 1,420 veh       | 337 veh               | 1,083 veh       |  |

# 3.5 Trip In/Out Splits

The in/out splits for trips generated for each land use type was based on the type of traffic behaviour (commuter, shopper, resident) in each peak, and are outlined in Table 3.7.

|                            |     | ln / Οι | ıt Split |     |
|----------------------------|-----|---------|----------|-----|
| Development Type           | Α   | М       | Р        | М   |
|                            | In  | Out     | In       | Out |
| Low Density Residential    | 30% | 70%     | 60%      | 40% |
| Medium Density Residential | 30% | 70%     | 60%      | 40% |
| High Density Residential   | 30% | 70%     | 60%      | 40% |
| Retail (Supermarket)       | 50% | 50%     | 50%      | 50% |
| Retail (Specialty Retail)  | 50% | 50%     | 50%      | 50% |
| Retail (Generic)           | 50% | 50%     | 50%      | 50% |
| Commercial (Office)        | 80% | 20%     | 20%      | 80% |

#### Table 3.7: Trip In/Out Split



# 4. **Trip Distribution**

# 4.1 **Overview**

The distribution of the new development trips to and from each of the sites was based on an analysis of Journey to Work data and O-D surveys data.

Journey to Work (JTW) data was collected from the Australian Bureau of Statistics, based on 2016 Census data. While 2021 Census datasets have been recently released, it is understood that the surveys were undertaken during the midst of the COVID-19 pandemic and may show impacted travel patterns due to movement restrictions and state-wide lockdowns. A subsequent analysis of the 2021 dataset revealed that there was a disproportionate weighting towards areas with a high density of industrial land use, with reduced percentages to areas characterised more strongly by retail centres and commercial offices (e.g. Sydney CBD). This could reflect the greater uptake of commercial working-from-home arrangements during this period, understating the general traffic patterns to certain origin-destination zones.

It was therefore determined that 2016 data would be a better reflection of business-asusual travel patterns for residents and workers in vicinity of the Woodville Road Corridor.

Detailed JTW data is shown in Attachment C.

## 4.2 **Journey to Work Analysis**

#### 4.2.1 Methodology

JTW data was collected for two (2) key SA2 zones to represent the study area, being:

- Granville-Clyde (Code: 1250311481)
- Guildford-South Granville (Code: 125031483).

The following data was extracted from the Census dataset:

- Places of Work for individuals with a Usual Residence located within the SA2 zones
- Usual Residence for individuals with a Place of Work located within the SA2 zones.

These two tables identified the existing traffic distribution for commuter traffic in the morning peak (outbound trips from residential sites within the study area and inbound trips to employment areas within the study area).

Trip directionality was assigned an approximate cardinal direction (North, South, East or West) for distribution through the corridor (e.g. trips from Guildford-South Granville to Parramatta would be orientated North). For the East and West directions, there were a number of different roads servicing each cardinal direction. The selected road(s) used for traffic generated by each of the Planning Proposal sites will be determined based on proximity to the major east-west roads and informed through review of OD patterns.

Some proportion of trips were also identified as 'internal' to the study area, being residents that both live and work within the two key SA2 zones. These trips will be distributed to appropriate sites / zones based on several factors, including the future projected land use, employment and retail centres and the assumed access arrangements to the corridor network.

For this assessment, the return trip was assumed to follow the same distribution in the opposite direction.

Discrete distributions were identified for each of the two key SA2 zones to reflect the change in trip distribution between sites to the northern and southern sides of the corridor.



# 4.2.2 Traffic Distribution - Residents

Figure 4.1 shows the residential traffic distribution based on JTW data for the shown Granville-Clyde SA2 zone, which encompasses the Woodville North Precinct and part of the Merrylands East Precinct.



Adapted from: ABS Maps

#### Figure 4.1: Journey to Work – Granville-Clyde SA2

Figure 4.2 shows the residential traffic distribution based on JTW data for the shown Guildford-South Granville SA2 zone, which encompasses the Woodville South Precinct and part of the Merrylands East Precinct.



Adapted from: ABS Maps





# 4.2.3 Traffic Distribution – Workers

Figure 4.3 shows the employment traffic distribution based on JTW data for the shown Granville-Clyde SA2 zone, which encompasses the Woodville North Precinct and part of the Merrylands East Precinct.



Adapted from: ABS Maps

#### Figure 4.3: Journey to Work – Granville-Clyde SA2

Figure 4.4 shows the employment traffic distribution based on JTW data for the shown Guildford-South Granville SA2 zone, which encompasses the Woodville South Precinct and part of the Merrylands East Precinct.



Adapted from: ABS Maps





#### 4.2.4 Summary

The resulting traffic distributions are summarised in Table 4.1.

#### Table 4.1: Traffic Distributions Summary

| Direction |                 | dents<br>ling to)             | Workers<br>(travelling from) |                               |  |  |
|-----------|-----------------|-------------------------------|------------------------------|-------------------------------|--|--|
| Direction | Granville-Clyde | Guildford-<br>South Granville | Granville-Clyde              | Guildford-<br>South Granville |  |  |
| North     | 19%             | 12%                           | 20%                          | 17%                           |  |  |
| South     | 13%             | 20%                           | 16%                          | 17%                           |  |  |
| East      | 42%             | 36%                           | 13%                          | 15%                           |  |  |
| West      | 26%             | 15%                           | 34%                          | 34%                           |  |  |
| Internal  | 11%             | 16%                           | 17%                          | 17%                           |  |  |

# 4.3 **O-D Data Analysis**

O-D survey data collected in 2022 as part of the calibration and validation of the Woodville Road Corridor traffic model will be used to refine and inform the traffic distribution identified from the JTW data.

Where possible, existing origin-destination travel patterns will be used to 'split' trips travelling to the East or West among the identified major roads. To do this, an appropriate O-D station would need to be identified for each of the Planning Proposal sites. This selection will be developed on the basis of proximity and similar access to the road network.



Attachment A: Planning Proposal Development Site Yields (CM+)



# $CM^+$

#### BASE CASE

| Site Number     | Overall Site<br>Area (sqm) | Constrained<br>Site Area<br>(sqm) | Opportunity<br>Site Area<br>(sqm) | Resi GFA<br>(sqm) | No. of<br>Proposed<br>Dwellings<br>(Units)* | Population<br>Projection<br>(person)** | Non-Resi GFA<br>(sqm) |    |
|-----------------|----------------------------|-----------------------------------|-----------------------------------|-------------------|---|--|-----------------------|----|
| 1               | 5,192                      | -                                 | 5,192                             | 9,346             | 93  |  | -                     |    |
| 2               | 6,301                      | -                                 | 6,301                             | 11,342            | 113   |  | -                     |    |
| 3               | 7,570                      | 747                               | 6,823                             | 12,281            | 123   |  | -                     |    |
| 4               | 1,698                      | -                                 | 1,698                             | 2,717             | 27  |  | 340                   |    |
| 5               | 6,657                      | 598                               | 6,059                             | 10,906            | 109   |  | -                     |    |
| 6               | 5,700                      | -                                 | 5,700                             | 10,260            | 103   |  | -                     |    |
| 7               | 1,222                      | -                                 | 1,222                             | 2,200             | 22  |  | 244                   |    |
| 8               | 7,056                      | -                                 | 7,056                             | 12,701            | 127   |  | 691                   |    |
| 9               | 3,852                      | -                                 | 3,852                             | 6,934             | 69  |  | -                     |    |
| 10              | 1,882                      | -                                 | 1,882                             | 3,388             | 34  |  | -                     |    |
| 11              | 2,514                      | -                                 | 2,514                             | 4,525             | 45  |  | -                     |    |
| 12              | 8,300                      | -                                 | 8,300                             | 14,439            | 144   |  | 501                   |    |
| 13              | 6,006                      | -                                 | 6,006                             | 10,811            | 108   |  | -                     |    |
| 14              | 5,630                      | -                                 | 5,630                             | 10,134            | 101   |  | -                     |    |
| 15              | 11,144                     | -                                 | 11,144                            | 16,830            | 164   |  | -                     |    |
| WOODVILLE NORTH |                            |                                   |                                   |                   |   |  |                       |    |
| PRECINCT TOTAL  | 80,724                     | 1,345                             | 79,379                            | 138,813           | 1,384                                       | 3,875                                  | 1,776                 |    |
| 16              | 10,377                     | -                                 | 10,377                            | 15,385            | 150   |  | 920                   |    |
| 17              | 28,747                     | -                                 | 28,747                            | 54,722            | 547   |  | 10,951                |    |
| 18              | 2,639                      | -                                 | 2,639                             |                   |   |  |                       | ор |
| 19              | 1,236                      | -                                 | 1,236                             | 2,225             | 22  |  | -                     |    |
| 20              | 3,028                      | -                                 | 3,028                             | 5,450             | 55  |  | -                     |    |
| 21              | 2,732                      | -                                 | 2,732                             | 4,918             | 49  |  | -                     |    |
| MERRYLANDS EAST |                            |                                   |                                   |                   |   |  |                       |    |
| PRECINCT TOTAL  | 48,759                     | -                                 | 48,759                            | 82,700            | 823   | 2,306                                  | 11,871                |    |
| 22              | 1,713                      | -                                 | 1,713                             | 3,083             | 31  |  | 343                   |    |
| 23              | 33,949                     | -                                 | 33,949                            | 59,738            | 597   |  | 4,277                 |    |
| 24              | 36,891                     | 4,552                             | 32,339                            | 54,899            | 549   |  | 1,440                 |    |
| 25              | 5,010                      | -                                 | 5,010                             | 9,018             | 90  |  | -                     |    |
| 26              | 4,916                      | -                                 | 4,916                             | 8,849             | 88  |  | -                     |    |
| 27              | 3,944                      | 143                               | 3,801                             | 6,842             | 68  |  | 760                   |    |
| 28              | 1,605                      | -                                 | 1,605                             | 2,889             | 29  |  | 321                   |    |
| 29              | 1,963                      | -                                 | 1,963                             | 3,533             | 35  |  | -                     |    |
| WOODVILLE SOUTH |                            |                                   |                                   |                   |   |  |                       | 1  |
| PRECINCT TOTAL  | 89,991                     | 4,695                             | 85,296                            | 148,851           | 1,489                                       | 4,168                                  | 7,141                 |    |
| TOTAL           | 219,474                    | 6,040                             | 213,434                           | 370,364           | 3,696                                       | 10,349                                 | 20,788                |    |



NOTE:

NUTE: The yield is of high level and included additional three E1 (B1) sites requested by Council on 22/02/23: 35 Grimwood Street is included in PP site 4 • 161 William Street is included in PP site 12 • 188 Guildford Road is included in PP site 23

Number of dwellings assumption: Residential Flat Building: Ground Floor GBA to GFA efficiency rate: 50% GBA to GFA efficiency rate for other levels: 75% FSR = GFA / Site Area GFA to NSA efficiency rate for residential part: 85% Average unit size: 85sqm No. Dwellings = NSA / 85average unit size: 85sqm

Townhouse:

Townhouse: GBA to GFA efficiency rate: 90% FSR = GFA / Site Area Average townhouse size: 120sqm No. Dwellings = GFA / 120

\*\*Population Projection Household Size: 2.8 ppl per dwelling



Dwelling yield has been updated

2,693



# WRC - AMENDED Urban Design Report - Yield

8/01/2025

Updated Site Yields as per Gateway Determination and Council Resolution

| Site            | Overall Site Area     | Constrained Site<br>Area | Opportunity Site<br>Area |                       | No. of Proposed<br>Dwellings* | Non-Resi GFA         |
|-----------------|-----------------------|--------------------------|--------------------------|-----------------------|-------------------------------|----------------------|
| Woodville North |                       | •                        | •                        |                       |                               |                      |
| 2               | 6,301 m <sup>2</sup>  | -                        | 6,301 m <sup>2</sup>     | 9,208 m <sup>2</sup>  | 92                            | -                    |
| 15              | 11,144 m <sup>2</sup> | -                        | 11,144 m <sup>2</sup>    | 16,984 m <sup>2</sup> | 170                           | -                    |
| Merrylands East |                       |                          |                          |                       |                               |                      |
| 30              | 4,708 m <sup>2</sup>  | -                        | 4,708 m <sup>2</sup>     | 8,474 m <sup>2</sup>  | 85                            | -                    |
| 31              | 4,912 m <sup>2</sup>  | -                        | 4,912 m <sup>2</sup>     | 8,841 m <sup>2</sup>  | 88                            | -                    |
| Woodville South |                       |                          |                          |                       |                               |                      |
| 23              | 33,949 m <sup>2</sup> | -                        | 33,949 m <sup>2</sup>    | 50,136 m <sup>2</sup> | 501                           | 3,591 m <sup>2</sup> |
| 24              | 36,891 m <sup>2</sup> | 4,552 m <sup>2</sup>     | 32,339 m <sup>2</sup>    | 40,837 m <sup>2</sup> | 408                           | 1,440 m <sup>2</sup> |

#### \*Number of dwellings assumptions:

GFA = FSR \* Site Area GFA to NSA efficiency rate for residential part: 85% Average unit size: 85sqm No. Dwellings = NSA / average unit size: 85sqm



Attachment B: Planning Proposal Site Trip Generation



#### P5825 Woodville Road Corridor TTS Uplift Trip Generation (Gross) - Planning Proposal (PP)

| Precinct   | PP Site         | Land-use           | Opportunity<br>Site Area (m <sup>2</sup> ) | FSR         | GFA (m²)       | Resi. Units | Trip Generation<br>Rate Units | Trip Gen Rate<br>(AM Peak) | Trips Gen<br>(AM Peak) | TRIPS IN | TRIPS OUT | Trip Gen Rate<br>(PM Peak) | Trips Gen<br>(PM Peak) | TRIPS IN       | TRIPS OUT |
|--|-----------------|--------------------|--|-------------|----------------|-------------|-------------------------------|----------------------------|------------------------|----------|-----------|----------------------------|------------------------|----------------|-----------|
| Woodville North Precinct                             | 1               | R4                 | 5192                                       | 1.8         | 9346           | 93          | trips per dwelling            | 0.19                       | 18                     | 5        | 13        | 0.15                       | 14                     | 8              | 6         |
| Woodville North Precinct                             | 2               | R4                 | 6301                                       | 1.8         | 9208           | 92          | trips per dwelling            | 0.19                       | 17                     | 5        | 12        | 0.15                       | 14                     | 8              | 6         |
| Woodville North Precinct                             | 2               | Open Space         | 0  |             |                | -           | N/A                           | -                          | -                      |          |           | -                          | -                      |                | -         |
| Woodville North Precinct                             | 3               | R4                 | 6823                                       | 1.8         | 12281          | 123         | trips per dwelling            | 0.19                       | 23                     | 7        | 16        | 0.15                       | 18                     | 11             | 7         |
| Woodville North Precinct                             | 4               | R4                 | 1509                                       | 1.8         | 2717           | 27          | trips per dwelling            | 0.19                       | 5                      | 2        | 3         | 0.15                       | 4                      | 2              | 2         |
| Woodville North Precinct                             | 4               | Retail             | 189  | 1.8         | 340            | -           | trips per 100 m2 GFA          | 2.5                        | 9                      | 5        | 4         | 5                          | 17                     | 9              | 8         |
| Woodville North Precinct                             | 5               | R4                 | 6059                                       | 1.8         | 10906          | 109         | trips per dwelling            | 0.19                       | 21                     | 6        | 15        | 0.15                       | 16                     | 10             | 6         |
| Woodville North Precinct                             | 6               | R4                 | 5700                                       | 1.8         | 10260          | 103         | trips per dwelling            | 0.19                       | 20                     | 6        | 14        | 0.15                       | 15                     | 9              | 6         |
| Woodville North Precinct                             | 7               | Retail             | 122  | 2           | 244            | -           | trips per 100 m2 GFA          | 2.5                        | 6                      | 3        | 3         | 5                          | 12                     | 6              | 6         |
| Woodville North Precinct                             | 7               | R4                 | 1100                                       | 2           | 2200           | 22          | trips per dwelling            | 0.19                       | 4                      | 1        | 3         | 0.15                       | 3                      | 2              | 1         |
| Woodville North Precinct                             | 8               | R4                 | 6699                                       | 1.90        | 12701          | 127         | trips per dwelling            | 0.19                       | 24                     | 7        | 17        | 0.15                       | 19                     | 11             | 8         |
| Woodville North Precinct                             | 8               | Retail             | 357  | 1.93        | 691            | -           | trips per 100 m2 GFA          | 2.5                        | 17                     | 9        | 8         | 5                          | 35                     | 18             | 17        |
| Woodville North Precinct                             | 9               | R4                 | 3852                                       | 1.8         | 6934           | 69          | trips per dwelling            | 0.19                       | 13                     | 4        | 9         | 0.15                       | 10                     | 6              | 4         |
| Woodville North Precinct                             | 10              | R4                 | 1882                                       | 1.8         | 3388           | 34          | trips per dwelling            | 0.19                       | 6                      | 2        | 4         | 0.15                       | 5                      | 3              | 2         |
| Woodville North Precinct                             | 11              | R4                 | 2514                                       | 1.8         | 4525           | 45          | trips per dwelling            | 0.19                       | 9                      | 3        | 6         | 0.15                       | 7                      | 4              | 3         |
| Woodville North Precinct                             | 12              | R4                 | 8022                                       | 1.8         | 14439          | 144         | trips per dwelling            | 0.19                       | 27                     | 8        | 19        | 0.15                       | 22                     | 13             | 9         |
| Woodville North Precinct                             | 12              | Retail<br>R4       | 278<br>6006                                | 1.8         | 501<br>10811   | - 108       | trips per 100 m2 GFA          | 2.5<br>0.19                | 13<br>21               | 7        | 6         | 5                          | 25                     | 13             | 12<br>6   |
| Woodville North Precinct                             | <u>13</u><br>14 | R4<br>R4           | 5630                                       | 1.8<br>1.8  | 10811          | 108         | trips per dwelling            | 0.19                       | 19                     | 6        | 15<br>13  | 0.15                       | 16<br>15               | <u>10</u><br>9 | 6         |
| Woodville North Precinct                             | 14              | R4<br>R4           | 5630<br>11144                              |             | 10134<br>16984 | 101<br>170  | trips per dwelling            | 0.19                       | 19<br>32               | <u> </u> | 22        | 0.15                       | 26                     | 16             | 10        |
| Merrylands East Precinct                             | 15              | R3                 | 3215                                       | 1.8<br>0.75 | 2411           | 20          | trips per dwelling            | 0.19                       | 10                     | 3        | 7         | 0.15                       | 10                     | 6              | 4         |
| •  |                 |                    |  |             |                |             | trips per dwelling            |                            |                        | -        | -         |                            |                        | •              |           |
| Merrylands East Precinct                             | 16              | R4                 | 2150                                       | 1.8         | 3869           | 39          | trips per dwelling            | 0.19                       | 7                      | 2        | 5         | 0.15                       | 6                      | 4              | 2         |
| Merrylands East Precinct                             | 16              | Retail             | 230  | 2           | 460            | -           | trips per 100 m2 GFA          | 2.5                        | 12                     | 6        | 6         | 5                          | 23                     | 12             | 11        |
| Merrylands East Precinct                             | 16              | Commercial         | 230  | 2           | 460            | -           | trips per 100 m2 GFA          | 2.1                        | 10                     | 8        | 2         | 1.8                        | 8                      | 2              | 6         |
| Merrylands East Precinct                             | 16              | R4                 | 4552                                       | 2           | 9104           | 91          | trips per dwelling            | 0.19                       | 17                     | 5        | 12        | 0.15                       | 14                     | 8              | 6         |
| Merrylands East Precinct                             | 17              | Retail (Specialty) | 2920                                       | 2.5         | 7301           | -           | trips per 100 m2 GLFA         | 1.7                        | 93                     | 47       | 46        | 3.5                        | 192                    | 96             | 96        |
| Merrylands East Precinct                             | 17              | Retail (Shopping)  | 1460                                       | 2.5         | 3650           | -           | trips per 100 m2 GLFA         | 5.8                        | 159                    | 80       | 79        | 11.6                       | 318                    | 159            | 159       |
| Merrylands East Precinct<br>Merrylands East Precinct | 17<br>17        | R4<br>Open Space   | 21889<br>2478                              | 2.5         | 54722          | 547         | trips per dwelling<br>N/A     | 0.19<br>-                  | 104                    | 31<br>-  | 73        | 0.15                       | 82                     | 49             | 33        |
| Merrylands East Precinct                             | 18              | Open Space         | 2639                                       | -           | -              | -           | N/A                           | -                          | -                      | -        | -         | -                          | -                      | -              | -         |
| Merrylands East Precinct                             | 19              | R4                 | 1236                                       | 1.8         | 2225           | 22          | trips per dwelling            | 0.19                       | 4                      | 1        | 3         | 0.15                       | 3                      | 2              | 1         |
| Merrylands East Precinct                             | 20              | R4                 | 3028                                       | 1.8         | 5450           | 55          | trips per dwelling            | 0.19                       | 10                     | 3        | 7         | 0.15                       | 8                      | 5              | 3         |
| Merrylands East Precinct                             | 21              | R4                 | 2732                                       | 1.8         | 4918           | 49          | trips per dwelling            | 0.19                       | 9                      | 3        | 6         | 0.15                       | 7                      | 4              | 3         |
| Merrylands East Precinct                             | 30              | R4                 | 4708                                       | 1.8         | 8474           | 85          | trips per dwelling            | 0.19                       | 16                     | 5        | 11        | 0.15                       | 13                     | 8              | 5         |
| Merrylands East Precinct                             | 31              | R4                 | 4912                                       | 1.8         | 8841           | 88          | trips per dwelling            | 0.19                       | 17                     | 5        | 12        | 0.15                       | 13                     | 8              | 5         |
| Woodville South Precinct                             | 22              | Retail             | 86   | 2           | 172            | -           | trips per 100 m2 GFA          | 2.5                        | 4                      | 2        | 2         | 5                          | 9                      | 5              | 4         |
| Woodville South Precinct                             | 22              | Commercial         | 86   | 2           | 172            | -           | trips per 100 m2 GFA          | 2.1                        | 4                      | 3        | 1         | 1.8                        | 3                      | 1              | 2         |
| Woodville South Precinct                             | 22              | R4                 | 1542                                       | 2           | 3083           | 31          | trips per dwelling            | 0.19                       | 6                      | 2        | 4         | 0.15                       | 5                      | 3              | 2         |
| Woodville South Precinct                             | 23              | Retail             | 898  | 2           | 1795.5         | -           | trips per 100 m2 GFA          | 2.5                        | 45                     | 23       | 22        | 5                          | 90                     | 45             | 45        |
| Woodville South Precinct                             | 23              | Commercial         | 898  | 2           | 1795.5         | -           | trips per 100 m2 GFA          | 2.1                        | 38                     | 30       | 8         | 1.8                        | 32                     | 6              | 26        |
| Woodville South Precinct                             | 23              | R4                 | 29869                                      | 2           | 50136          | 501         | trips per dwelling            | 0.19                       | 95                     | 29       | 66        | 0.15                       | 75                     | 45             | 30        |
| Woodville South Precinct                             | 23              | Open Space         | 2285                                       | -           | -              | -           | N/A                           | -                          | -                      | -        | -         | -                          | -                      | -              | -         |
| Woodville South Precinct                             | 24              | R4                 | 32339                                      | 1.8         | 40837          | 408         | trips per dwelling            | 0.19                       | 78                     | 23       | 55        | 0.15                       | 61                     | 37             | 24        |
| Woodville South Precinct                             | 24              | Retail             | 800  | 1.8         | 1440           | -           | trips per 100 m2 GFA          | 2.5                        | 36                     | 18       | 18        | 5                          | 72                     | 36             | 36        |
| Woodville South Precinct                             | 25              | R4                 | 5010                                       | 1.8         | 9018           | 90          | trips per dwelling            | 0.19                       | 17                     | 5        | 12        | 0.15                       | 14                     | 8              | 6         |
| Woodville South Precinct                             | 26              | R4                 | 4916                                       | 1.8         | 8849           | 88          | trips per dwelling            | 0.19                       | 17                     | 5        | 12        | 0.15                       | 13                     | 8              | 5         |
| Woodville South Precinct                             | 27              | Retail             | 190  | 2           | 380            | -           | trips per 100 m2 GFA          | 2.5                        | 10                     | 5        | 5         | 5                          | 19                     | 10             | 9         |
| Woodville South Precinct                             | 27              | Commercial         | 190  | 2           | 380            | -           | trips per 100 m2 GFA          | 2.1                        | 8                      | 6        | 2         | 1.8                        | 7                      | 1              | 6         |
| Woodville South Precinct                             | 27              | R4                 | 3421                                       | 2           | 6842           | 68          | trips per dwelling            | 0.19                       | 13                     | 4        | 9         | 0.15                       | 10                     | 6              | 4         |
| Woodville South Precinct                             | 28              | Retail             | 80   | 2           | 161            | -           | trips per 100 m2 GFA          | 2.5                        | 4                      | 2        | 2         | 5                          | 8                      | 4              | 4         |
| Woodville South Precinct                             | 28              | Commercial         | 80   | 2           | 161            | -           | trips per 100 m2 GFA          | 2.1                        | 3                      | 2        | 1         | 1.8                        | 3                      | 1              | 2         |
| Woodville South Precinct                             | 28              | R4                 | 1445                                       | 2           | 2889           | 29          | trips per dwelling            | 0.19                       | 6                      | 2        | 4         | 0.15                       | 4                      | 2              | 2         |
| Woodville South Precinct                             | 29              | R4                 | 1963                                       | 1.8         | 3533           | 35          | trips per dwelling            | 0.19                       | 7                      | 2        | 5         | 0.15                       | 5                      | 3              | 2         |
| Total  | -               | -                  | 223854                                     | -           | 382138         | 3613        |                               | -                          | 1163                   | 464      | 699       | -                          | 1420                   | 752            | 668       |

#### P5825 Woodville Road Corridor TTS Trip Generation - Existing Site Controls

| Precinct                 | PP Site | Land-use   | Opportunity<br>Site Area (m <sup>2</sup> ) | FSR | GFA (m²) | Dwellings | Trip Generation<br>Rate Units | Trip Gen Rate<br>(AM Peak) | Trips Gen (AM<br>Peak) | TRIPS IN | TRIPS OUT | Trip Gen Rate<br>(PM Peak) | Trips Gen<br>(PM Peak) | TRIPS IN | TRIPS OUT |
|--------------------------|---------|------------|--|-----|----------|-----------|-------------------------------|----------------------------|------------------------|----------|-----------|----------------------------|------------------------|----------|-----------|
| Woodville North Precinct | 1       | R2         | 5192                                       | 1   | 5192     | 8.65      | trips per dwelling            | 0.95                       | 8                      | 2        | 6         | 0.99                       | 9                      | 5        | 4         |
| Woodville North Precinct | 2       | R2         | 6301                                       | 1   | 6301     | 10.50     | trips per dwelling            | 0.95                       | 10                     | 3        | 7         | 0.99                       | 10                     | 6        | 4         |
| Woodville North Precinct | 3       | R2         | 6823                                       | 1   | 6823     | 11.37     | trips per dwelling            | 0.95                       | 11                     | 3        | 8         | 0.99                       | 11                     | 7        | 4         |
| Woodville North Precinct | 4       | R2         | 1698                                       | 1   | 1698     | 2.83      | trips per dwelling            | 0.95                       | 3                      | 1        | 2         | 0.99                       | 3                      | 2        | 1         |
| Woodville North Precinct | 5       | R2         | 6059                                       | 1   | 6059     | 10.10     | trips per dwelling            | 0.95                       | 10                     | 3        | 7         | 0.99                       | 10                     | 6        | 4         |
| Woodville North Precinct | 6       | R2         | 5700                                       | 1   | 5700     | 9.50      | trips per dwelling            | 0.95                       | 9                      | 3        | 6         | 0.99                       | 9                      | 5        | 4         |
| Woodville North Precinct | 7       | R3         | 1222                                       | 0.6 | 733.2    | 6.11      | trips per dwelling            | 0.5                        | 3                      | 1        | 2         | 0.5                        | 3                      | 2        | 1         |
| Woodville North Precinct | 8       | R3         | 7056                                       | 0.6 | 4233.6   | 35.28     | trips per dwelling            | 0.5                        | 18                     | 5        | 13        | 0.5                        | 18                     | 11       | 7         |
| Woodville North Precinct | 9       | R2         | 3852                                       | 1   | 3852     | 6.42      | trips per dwelling            | 0.95                       | 6                      | 2        | 4         | 0.99                       | 6                      | 4        | 2         |
| Woodville North Precinct | 10      | R2         | 1882                                       | 1   | 1882     | 3.14      | trips per dwelling            | 0.95                       | 3                      | 1        | 2         | 0.99                       | 3                      | 2        | 1         |
| Woodville North Precinct | 11      | R2         | 2514                                       | 1   | 2514     | 4.19      | trips per dwelling            | 0.95                       | 4                      | 1        | 3         | 0.99                       | 4                      | 2        | 2         |
| Woodville North Precinct | 12      | R2         | 8300                                       | 1   | 8300     | 13.83     | trips per dwelling            | 0.95                       | 13                     | 4        | 9         | 0.99                       | 14                     | 8        | 6         |
| Woodville North Precinct | 13      | R2         | 6006                                       | 1   | 6006     | 10.01     | trips per dwelling            | 0.95                       | 10                     | 3        | 7         | 0.99                       | 10                     | 6        | 4         |
| Woodville North Precinct | 14      | R2         | 5630                                       | 1   | 5630     | 9.38      | trips per dwelling            | 0.95                       | 9                      | 3        | 6         | 0.99                       | 9                      | 5        | 4         |
| Woodville North Precinct | 15      | R3         | 2929                                       | 0.6 | 1757.26  | 14.64     | trips per dwelling            | 0.5                        | 7                      | 2        | 5         | 0.5                        | 7                      | 4        | 3         |
| Woodville North Precinct | 15      | R2         | 8215                                       | 1   | 8215.24  | 13.69     | trips per dwelling            | 0.95                       | 13                     | 4        | 9         | 0.99                       | 14                     | 8        | 6         |
| Merrylands East Precinct | 16      | R2         | 10377                                      | 1   | 10377.00 | 17.30     | trips per dwelling            | 0.95                       | 16                     | 5        | 11        | 0.99                       | 17                     | 10       | 7         |
| Merrylands East Precinct | 17      | B2         | 26271                                      | 2.2 | 57796    | -         | -                             | -                          | 11                     | 3        | 8         | -                          | 12                     | 7        | 5         |
| Merrylands East Precinct | 17      | Open Space | 2476                                       | -   | -        | -         | N/A                           | -                          | -                      | -        | -         | -                          | -                      | -        | -         |
| Merrylands East Precinct | 18      | Open Space | 2639                                       | -   | -        | -         | N/A                           | -                          | -                      | -        | -         | -                          | -                      | -        | -         |
| Merrylands East Precinct | 19      | R2         | 1236                                       | 1   | 1236.00  | 2.06      | trips per dwelling            | 0.95                       | 2                      | 1        | 1         | 0.99                       | 2                      | 1        | 1         |
| Merrylands East Precinct | 20      | R2         | 3028                                       | 1   | 3028.00  | 5.05      | trips per dwelling            | 0.95                       | 5                      | 2        | 3         | 0.99                       | 5                      | 3        | 2         |
| Merrylands East Precinct | 21      | R2         | 2732                                       | 1   | 2732.00  | 4.55      | trips per dwelling            | 0.95                       | 4                      | 1        | 3         | 0.99                       | 5                      | 3        | 2         |
| Woodville South Precinct | 22      | R2         | 1713                                       | 1   | 1713.00  | 2.86      | trips per dwelling            | 0.95                       | 3                      | 1        | 2         | 0.99                       | 3                      | 2        | 1         |
| Woodville South Precinct | 23      | R2         | 33949                                      | 1   | 33949.00 | 56.58     | trips per dwelling            | 0.95                       | 54                     | 16       | 38        | 0.99                       | 56                     | 34       | 22        |
| Woodville South Precinct | 24      | R2         | 32339                                      | 1   | 32339.00 | 53.90     | trips per dwelling            | 0.95                       | 51                     | 15       | 36        | 0.99                       | 53                     | 32       | 21        |
| Woodville South Precinct | 25      | R2         | 5010                                       | 1   | 5010.00  | 8.35      | trips per dwelling            | 0.95                       | 8                      | 2        | 6         | 0.99                       | 8                      | 5        | 3         |
| Woodville South Precinct | 26      | R2         | 4916                                       | 1   | 4916.00  | 8.19      | trips per dwelling            | 0.95                       | 8                      | 2        | 6         | 0.99                       | 8                      | 5        | 3         |
| Woodville South Precinct | 27      | R2         | 3801                                       | 1   | 3801.00  | 6.34      | trips per dwelling            | 0.95                       | 6                      | 2        | 4         | 0.99                       | 6                      | 4        | 2         |
| Woodville South Precinct | 28      | R2         | 1605                                       | 1   | 1605.00  | 2.68      | trips per dwelling            | 0.95                       | 3                      | 1        | 2         | 0.99                       | 3                      | 2        | 1         |
| Woodville South Precinct | 29      | R2         | 1963                                       | 1   | 1963.00  | 3.27      | trips per dwelling            | 0.95                       | 3                      | 1        | 2         | 0.99                       | 3                      | 2        | 1         |
| Merrylands East Precinct | 30      | R2         | 4708                                       | 1   | 4708.00  | 7.85      | trips per dwelling            | 0.95                       | 7                      | 2        | 5         | 0.99                       | 8                      | 5        | 3         |
| Merrylands East Precinct | 31      | R2         | 4912                                       | 1   | 4912.00  | 8.19      | trips per dwelling            | 0.95                       | 8                      | 2        | 6         | 0.99                       | 8                      | 5        | 3         |
| Total                    | -       | -          | 223054                                     | -   | 244981   | 357       |                               | -                          | 326                    | 97       | 229       | -                          | 337                    | 203      | 134       |

# P5825 Woodville Road Corridor TTS Uplift Trip Generation (Net)

| Precinct                 | PP Site | Trip Gen AM<br>(PP) | Trip Gen AM<br>(Exist) | Trip Gen AM<br>(Net) | AM<br>TRIPS IN | AM<br>TRIPS OUT | Trip Gen PM<br>(PP) | Trip Gen PM<br>(Exist) | Trip Gen PM<br>(Net) | PM<br>TRIPS IN | PM<br>TRIPS OUT |
|--------------------------|---------|---------------------|------------------------|----------------------|----------------|-----------------|---------------------|------------------------|----------------------|----------------|-----------------|
| Woodville North Precinct | 1       | 18                  | 8                      | 10                   | 3              | 7               | 14                  | 9                      | 5                    | 3              | 2               |
| Woodville North Precinct | 2       | 17                  | 10                     | 7                    | 2              | 5               | 14                  | 10                     | 4                    | 2              | 2               |
| Woodville North Precinct | 3       | 23                  | 11                     | 12                   | 4              | 8               | 18                  | 11                     | 7                    | 4              | 3               |
| Woodville North Precinct | 4       | 14                  | 3                      | 11                   | 6              | 5               | 21                  | 3                      | 18                   | 9              | 9               |
| Woodville North Precinct | 5       | 21                  | 10                     | 11                   | 3              | 8               | 16                  | 10                     | 6                    | 4              | 2               |
| Woodville North Precinct | 6       | 20                  | 9                      | 11                   | 3              | 8               | 15                  | 9                      | 6                    | 4              | 2               |
| Woodville North Precinct | 7       | 10                  | 3                      | 7                    | 3              | 4               | 15                  | 3                      | 12                   | 6              | 6               |
| Woodville North Precinct | 8       | 41                  | 18                     | 23                   | 11             | 12              | 54                  | 18                     | 36                   | 18             | 18              |
| Woodville North Precinct | 9       | 13                  | 6                      | 7                    | 2              | 5               | 10                  | 6                      | 4                    | 2              | 2               |
| Woodville North Precinct | 10      | 6                   | 3                      | 3                    | 1              | 2               | 5                   | 3                      | 2                    | 1              | 1               |
| Woodville North Precinct | 11      | 9                   | 4                      | 5                    | 2              | 3               | 7                   | 4                      | 3                    | 2              | 1               |
| Woodville North Precinct | 12      | 40                  | 13                     | 27                   | 11             | 16              | 47                  | 14                     | 33                   | 18             | 15              |
| Woodville North Precinct | 13      | 21                  | 10                     | 11                   | 3              | 8               | 16                  | 10                     | 6                    | 4              | 2               |
| Woodville North Precinct | 14      | 19                  | 9                      | 10                   | 3              | 7               | 15                  | 9                      | 6                    | 4              | 2               |
| Woodville North Precinct | 15      | 32                  | 20                     | 12                   | 4              | 8               | 26                  | 21                     | 5                    | 4              | 1               |
| Merrylands East Precinct | 16      | 56                  | 16                     | 40                   | 19             | 21              | 61                  | 17                     | 44                   | 22             | 22              |
| Merrylands East Precinct | 17      | 356                 | 11                     | 345                  | 155            | 190             | 592                 | 12                     | 580                  | 297            | 283             |
| Merrylands East Precinct | 18      | 0                   | 0                      | 0                    | 0              | 0               | 0                   | 0                      | 0                    | 0              | 0               |
| Merrylands East Precinct | 19      | 4                   | 2                      | 2                    | 0              | 2               | 3                   | 2                      | 1                    | 1              | 0               |
| Merrylands East Precinct | 20      | 10                  | 5                      | 5                    | 1              | 4               | 8                   | 5                      | 3                    | 2              | 1               |
| Merrylands East Precinct | 21      | 9                   | 4                      | 5                    | 2              | 3               | 7                   | 5                      | 2                    | 1              | 1               |
| Woodville South Precinct | 22      | 14                  | 3                      | 11                   | 6              | 5               | 17                  | 3                      | 14                   | 7              | 7               |
| Woodville South Precinct | 23      | 178                 | 54                     | 124                  | 66             | 58              | 197                 | 56                     | 141                  | 62             | 79              |
| Woodville South Precinct | 24      | 114                 | 51                     | 63                   | 26             | 37              | 133                 | 53                     | 80                   | 41             | 39              |
| Woodville South Precinct | 25      | 17                  | 8                      | 9                    | 3              | 6               | 14                  | 8                      | 6                    | 3              | 3               |
| Woodville South Precinct | 26      | 17                  | 8                      | 9                    | 3              | 6               | 13                  | 8                      | 5                    | 3              | 2               |
| Woodville South Precinct | 27      | 31                  | 6                      | 25                   | 13             | 12              | 36                  | 6                      | 30                   | 13             | 17              |
| Woodville South Precinct | 28      | 13                  | 3                      | 10                   | 5              | 5               | 15                  | 3                      | 12                   | 5              | 7               |
| Woodville South Precinct | 29      | 7                   | 3                      | 4                    | 1              | 3               | 5                   | 3                      | 2                    | 1              | 1               |
| Merrylands East Precinct | 30      | 16                  | 7                      | 9                    | 3              | 6               | 13                  | 8                      | 5                    | 3              | 2               |
| Merrylands East Precinct | 31      | 17                  | 8                      | 9                    | 3              | 6               | 13                  | 8                      | 5                    | 3              | 2               |
| Total                    | -       | 1163                | 326                    | 837                  | 367            | 470             | 1420                | 337                    | 1083                 | 549            | 534             |

Attachment C: Trip Distribution Based on Journey to Work Data



#### P5825 Woodville Road Corridor TTS Distribution of Workers Residing within Guildford - South Granville (2016 SA2 Region)

Place of Work (2016 SA2 Region) Number of Workers Proportion Cumulative Proportion Direction

| Total         2876         10%         -   | Place of Work (2016 SA2 Region)  |      |      | Cumulative Proportion | Direction |
|--|----------------------------------|------|------|-----------------------|-----------|
| Parametia - Rosehili         202         7%         20%         N           Fornevise (Qyde         131         5%         24%         International (Constructional (Constructiona) (Constructiona) (Constructiona) (Constructiona) (Constructional | Total                            | 2876 | 100% | -                     | -         |
| Granulla - Clyde       131       5%       24%       Internal         Homebus Bay - Slowwater       101       4%       28%       E         Lidomber       101       3%       31%       E         Lidomber       101       3%       31%       E         Lidomber       101       3%       31%       E         Chester Hill - Seiton       22       3%       40%       S         Northmead       72       3%       40%       N         Wetherill Park Industrial       66       2%       47%       N         Concord West - North Strathfield       64       2%       56%       S         Macquarie Park       49       2%       56%       S         Greenacer - Mout Lewis       50       2%       66%       S         Condell Park       49       2%       66%       S         Fairfield       47       2%       66%       S         Condell Park       41       1%       66%       E         Condell Park       41       1%       66%       S         Carlend Condenation       30       1%       7%       N         Charlend Condenation       31 <td>Guildford - South Granville</td> <td>366</td> <td>13%</td> <td>13%</td> <td>Internal</td>   | Guildford - South Granville      | 366  | 13%  | 13%                   | Internal  |
| Homebush Bay - Silverwater         101         4%         28%         E           Lidcombe         91         3%         34%         E           Lidcombe         91         3%         34%         E           Marrylands - Holroyd         88         3%         34%         E           Marrylands - Holroyd         88         3%         40%         S           Northmead         23%         40%         S         Advert           Verhenil Park Industrial         66         2%         47%         E           Concord West - North Strathfield         61         2%         56%         E           Fairfield - East         59         2%         56%         S           Smithfield Industrial         55         2%         66%         S           Condell Park         49         2%         61%         S           Bankstown - South         49         2%         65%         S           Condell Park         41         1%         66%         E           Condell Park         41         1%         66%         E           Condell Park         41         1%         66%         E           Condell Park<  | Parramatta - Rosehill            | 202  | 7%   | 20%                   | N         |
| Auburn - Central         100         3%         3%         E           Lidcombo         91         3%         34%         E           Merrylands - Hokroyd         85         3%         38%         W           Chester Hill - Setton         22         3%         40%         S           Northmed         72         3%         43%         W           Wetherill Park Industrial         66         2%         45%         W           Auburn - North         65         2%         45%         E           Concord West - North Strahtfield         64         2%         65%         E           Fairfield - East         59         2%         65%         S           Greenacer - Mount Lewis         50         2%         66%         S           Condell Park         49         2%         66%         S           Fairfield - East         59         2%         66%         S           Condell Park         49         2%         66%         S           Cardetl Park         41         1%         66%         E           Prospect Reservoir         40         1%         65%         E           Chultora   | Granville - Clyde                | 131  | 5%   | 24%                   | Internal  |
| Auburn - Central         100         3%         3%         E           Lidcombo         91         3%         34%         E           Merrylands - Hokroyd         85         3%         38%         W           Chester Hill - Setton         22         3%         40%         S           Northmed         72         3%         43%         W           Wetherill Park Industrial         66         2%         45%         W           Auburn - North         65         2%         45%         E           Concord West - North Strahtfield         64         2%         65%         E           Fairfield - East         59         2%         65%         S           Greenacer - Mount Lewis         50         2%         66%         S           Condell Park         49         2%         66%         S           Fairfield - East         59         2%         66%         S           Condell Park         49         2%         66%         S           Cardetl Park         41         1%         66%         E           Prospect Reservoir         40         1%         65%         E           Chultora   | -                                | 101  | 4%   |                       |           |
| Lidcombe         91         3%         3%         3%           Merrylands - Holoyd         83         3%         3%         W           Chester Hill - Setton         82         3%         40%         S           Northmed         72         3%         43%         W           Auburn - North         66         2%         47%         E           Concord West - North Strathfield         64         2%         50%         E           Macquare Park - Marsfield         59         2%         54%         E           Fairfield - East         59         2%         65%         S           Smithfield Industrial         55         2%         65%         S           Condell Park         49         2%         65%         S           Bankstown - South         49         2%         65%         S           Fairfield         47         2%         65%         S           Condell Park         41         1%         66%         E           Homebush         37         1%         7%         W           Guildford West - Merrylands West         36         1%         7%         W           Greinstare - Pero  |                                  |      |      |                       |           |
| Merrylands - Holroyd         88         3%         3%         W           Chester Hill Sektion         82         3%         40%         S           Northmead         72         3%         40%         S           Wethenill Park Industrial         66         2%         45%         W           Auburn - North         65         2%         45%         E           Concord West - North Strathfield         64         2%         55%         E           Macquare Park - Marsfield         59         2%         56%         S           Smithfield Industrial         65         2%         66%         S           Concell Park         49         2%         66%         S           Condell Park         49         2%         66%         S           Condell Park         41         1%         66%         E           Condell Park         41         1%         66%         E           Condell Park         43         1%         7%         W           Condell Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Colupton  |                                  |      |      |                       |           |
| Chešer Hill - Settón         82         3%         40%         S           Northmead         72         3%         43%         N           Wetherill Park Industrial         66         2%         45%         V           Concord West - North Strathfield         64         2%         55%         E           Ermington - Rydalmere         63         2%         55%         E           Smithfield Industrial         55         2%         65%         S           Smithfield Industrial         55         2%         65%         S           Condell Park         49         2%         66%         S           Bankstown - South         49         2%         66%         S           Prospect Reservoir         40         1%         65%         S           Chullora         40         1%         65%         S           Grestanse - PermUkury         36         1%         77%         N           Grestanse - PermUkury         36         1%         77%         N           Grestanse - PermUkury         36         1%         75%         E           Bankstown - North         33         1%         76%         E      <  |                                  | -    | -    |                       |           |
| Northmead         72         3%         43%         W           Wetherill Park Industrial         66         2%         45%         W           Auburn - North         65         2%         55%         E           Ermington - Rydaimere         63         2%         55%         E           Macquare Park - Marsfield         59         2%         56%         S           Smithfield Industrial         55         2%         66%         S           Concord Park         49         2%         66%         S           Condel Park         49         2%         66%         S           Condel Park         41         1%         66%         S           Condel Park         41         1%         66%         E           Condel Park         41         1%         66%         E           Condel Park         41         1%         7%         W           Chuiora         40         1%         67%         W           Chuiora         40         1%         7%         W           Chuiora         40         1%         7%         W           Chanebash         31         1%         7   |                                  |      | -    |                       |           |
| Wethenil Park Industrial         66         2%         47%           Auburn - North         65         2%         47%           Concord West - North Strathfield         64         2%         52%           Ermington - Rydalmere         63         2%         52%           Samthfield Industrial         55         2%         66%         S           Samthfield Industrial         55         2%         66%         S           Condell Park         49         2%         66%         S           Bankstown - South         49         2%         66%         S           Fairfield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         77%         N           Guildford West - Merrylands West         36         1%         77%         N           Guildford West - Merrylands West         36         1%         77%         N           Guildford West - Merrylands West         36         1%         77%         N           Guildford West - Merrylands West   |                                  |      | -    |                       |           |
| Auburn - North         65         2%         47%         E           Concord West - North Strathfield         64         2%         50%         E           Macquare Park - Marsfield         59         2%         54%         E           Fairfield - East         59         2%         56%         S           Smithfield Industrial         55         2%         56%         S           Concord Wars         60         2%         61%         S           Condell Park         49         2%         61%         S           Condell Park         49         2%         63%         S           Painfield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chuidora         40         1%         77%         N         North           Greidstanes - Pemulwuy         36         1%         77%         N         North           Greidstanes - Pemulwuy         36         1%         77%         S         North         S           Sydney - Haymarket - The Rocks         33   | Northmead                        | 72   | 3%   | 43%                   | N         |
| Concord West - North Strathfield         64         2%         50%         E           Ermington - Rydalmere         63         2%         52%         54%         E           Failfield Least         59         2%         56%         S         S           Smithfield Industrial         55         2%         60%         E         Condell Park         49         2%         61%         S           Bankstown - South         49         2%         63%         S         Faiffield         47         2%         65%         S           Prospect Reservoir         40         1%         67%         E         E         Chullora         40         1%         67%         W         E         Chullora         40         1%         67%         W         E         Chullora         40         1%         67%         W         E         Chullora         40         1%         67%         N         S         S         G         S         G         S         G         S         G         S         G         S         G         S         G         S         G         S         G         S         G         S         G         S         G </td <td>Wetherill Park Industrial</td> <td>66</td> <td>2%</td> <td>45%</td> <td>W</td>   | Wetherill Park Industrial        | 66   | 2%   | 45%                   | W         |
| Ermington - Fydalmere         63         2%         52%         54%         E           Macquarie Park - Marsfield         59         2%         54%         E           Smithfield Industrial         55         2%         56%         S           Condell Park         49         2%         61%         S           Edmistown - South         49         2%         61%         S           Partifield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chultora         40         1%         67%         W           Chultora         40         1%         67%         W           Chultora         40         1%         67%         N           Cultoford Weet - Merrylands West         36         1%         77%         N           Greystanes - Pemulwuy         36         1%         77%         N           Bauktown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S  | Auburn - North                   | 65   | 2%   | 47%                   | E         |
| Ermington - Fydalmere         63         2%         52%         54%         E           Macquarie Park - Marsfield         59         2%         54%         E           Smithfield Industrial         55         2%         56%         S           Condell Park         49         2%         61%         S           Edmistown - South         49         2%         61%         S           Partifield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chultora         40         1%         67%         W           Chultora         40         1%         67%         W           Chultora         40         1%         67%         N           Cultoford Weet - Merrylands West         36         1%         77%         N           Greystanes - Pemulwuy         36         1%         77%         N           Bauktown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S  | Concord West - North Strathfield | 64   | 2%   | 50%                   | E         |
| Macquarie Park - Marsfield         59         2%         56%         E           Fairlield - East         59         2%         56%         S           Ordenlard - East         50         2%         56%         S           Greenacre - Mount Lewis         50         2%         60%         E           Condell Park         49         2%         63%         S           Bankstown - South         49         2%         63%         S           Prainfield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         74%         W           Guildford West - Merrylands West         36         1%         74%         W           Guildford West - Merrylands West         31         1%         76%         E           Sydney - Haymarket - The Rocks         33         1%         76%         S           Sydney - Haymarket - The Rocks         31         1%         76%         S           Einweide - Alexandria         26         1%         82%         E </td <td></td> <td>-</td> <td></td> <td></td> <td></td>  |                                  | -    |      |                       |           |
| Faif-field - East         59         2%         56%         S           Smithfield Industrial         55         2%         58%         W           Greenacre - Mount Lewis         50         2%         60%         E           Condell Park         49         2%         613%         S           Bankstown - South         49         2%         633%         S           Fairfield         47         2%         665%         S           Regents Park         41         1%         666%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         67%         W           Catoxianes - Pemulway         36         1%         73%         W           Greystanes - Pemulway         36         1%         76%         E           Dialyton proton - Moorebank         31         1%         77%         S           Liverpool         30  | 5 ,                              |      |      |                       |           |
| Smithfield Industrial         55         2%         58%         W           Greenacre - Mount Lewis         50         2%         60%         E           Condell Park         49         2%         61%         S           Bankstown - South         49         2%         65%         S           Fairfield         47         2%         65%         S           Regents Park         40         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         69%         E           Homebush         37         1%         70%         E           Guildford West - Merylands West         36         1%         74%         W           Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76% E         S           Bankstown - North         33         1%         76% E         S           Liverpool         30         1%         81% E         E           Lakor Park - Kings Langley         26         1%         82% E         E      <  | •                                |      |      |                       |           |
| Greenacre - Mount Lewis         50         2%         60%         E           Condell Park         49         2%         61%         S           Bankstown - South         49         2%         63%         S           Fairfield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         67%         W           Chullora         40         1%         67%         W           Chullora         40         1%         67%         W           Colldford West - Menylands West         36         1%         74%         W           Bauktown - North         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         79%         S           Backtown (East) - Kings Langley         26         1%         83%         W           Ryde  |                                  |      |      |                       |           |
| Condell Park         49         2%         61%         S           Bankstown - South         49         2%         63%         S           Fairfield         47         2%         65%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chultora         36         1%         71%         N           Guildford West - Merylands West         36         1%         74%         W           Baukham Hils (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         77%         S           Bankstown - North         33         1%         77%         S           Liverpool         30         1%         84%         E           Bankstown - North         23         1%         84%         E           Lalor Park - Kings Langley   |                                  |      |      |                       |           |
| Bankstown - South         49         2%         63%         S           Fairfield         47         2%         66%         S           Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         66%         E           Chullora         40         1%         66%         E           Homebush         37         1%         70%         E           Suidford West - Merrylands West         36         1%         73%         W           Greystanes - Pernulwuy         36         1%         74%         W           Bauksattillik (West) - Bella Vista         34         1%         76%         E           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         76%         E           Surwood - Croydon         30         1%         78%         S           Burkoto (East) - Kings Park         26         1%         83%         W           Lor Park - Kings Langley         26         1%         85%         E           Cabramata - Lansvale         23         1%         86%         S     <   | Greenacre - Mount Lewis          | 50   | 2%   | 60%                   | E         |
| Fairfield       47       2%       65%       S         Regents Park       41       1%       66%       E         Prospect Reservoir       40       1%       67%       W         Chullora       40       1%       67%       W         Homebush       37       1%       70%       E         North Parramatta       36       1%       71%       N         Guidford West - Merylands West       36       1%       74%       W         Baukham Hills (West) - Bella Vista       34       1%       75%       N         Sydney - Haymarket - The Rocks       33       1%       77%       S         Elankstown - Noth       33       1%       77%       S         Elverpool       30       1%       81%       E         Blacktown (East) - Kings Park       26       1%       83%       W         Ryde       23       1%       85%       E         Lalor Park - Kings Langley       26       1%       85%       E         Strathfield South       22       1%       86%       E         Cabramatta - Lansvale       23       1%       86%       E         Strathfield Sou  | Condell Park                     | 49   | 2%   | 61%                   | S         |
| Fairfield       47       2%       65%       S         Regents Park       41       1%       66%       E         Prospect Reservoir       40       1%       67%       W         Chullora       40       1%       67%       W         Homebush       37       1%       70%       E         North Parramatta       36       1%       71%       N         Guidford West - Merylands West       36       1%       74%       W         Baukham Hills (West) - Bella Vista       34       1%       75%       N         Sydney - Haymarket - The Rocks       33       1%       77%       S         Elankstown - Noth       33       1%       77%       S         Elverpool       30       1%       81%       E         Blacktown (East) - Kings Park       26       1%       83%       W         Ryde       23       1%       85%       E         Lalor Park - Kings Langley       26       1%       85%       E         Strathfield South       22       1%       86%       E         Cabramatta - Lansvale       23       1%       86%       E         Strathfield Sou  | Bankstown - South                | 49   | 2%   | 63%                   | S         |
| Regents Park         41         1%         66%         E           Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         67%         F           North Parramatta         36         1%         70%         E           North Parramatta         36         1%         73%         W           Greystanes - Pernulwuy         36         1%         74%         W           Baukkan Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         76%         S           Liverpool         30         1%         78%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskinewille - Alexandria         26         1%         83%         W           Lalor Park - Kings Langley         28         1%         84%         E           Lalor Park - Kings Langley         23         1%         86%         S           Strathfield South         22         1%         86%         S  |                                  |      |      |                       |           |
| Prospect Reservoir         40         1%         67%         W           Chullora         40         1%         69%         E           North Parramatta         36         1%         71%         N           Guidford West - Merylands West         36         1%         73%         W           Guidford West - Merylands West         36         1%         74%         W           Baukham Hills (West) - Bella Vista         34         1%         76%         E           Sydney - Haymarket - The Rocks         33         1%         77%         S           Bankstown - North         31         1%         78%         S           Liverpool         30         1%         78%         S           Burwood - Croydon         30         1%         81%         W           Blacktown (East) - Kings Park         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         84%         E           Auburn - South         23         1%         86%         S           Strathfield South         22         1%         86%         S           Strathfield South         22         1%         86%   |                                  |      |      |                       |           |
| Chuliora         40         1%         69%         E           Homebush         37         1%         70%         E           Guildford West - Merrylands West         36         1%         73%         W           Greystanes - Pemulvuy         36         1%         74%         W           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         76%         S           Liverpool         30         1%         77%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         83%         W           Ryde         23         1%         86%         S           Starthfield South         22         1%         86%         S           Strathfield South         22         1%         86%         S           Strathfield - Wetherill Park         22         1%         86%         S           Strathfield South         22         1%         86%         S           Strathfield - Wetherill Park         22         1%         86%         S   |                                  |      |      |                       |           |
| Homebush         37         1%         70%         E           North Parramatta         36         1%         71%         N           Guidford West - Merylands West         36         1%         74%         W           Baukham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         77%         S           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         84%         E           Barkstown - North         26         1%         84%         E           Lakor Park - Kings Park         26         1%         84%         E           Lakor Park - Kings Langley         26         1%         84%         E           Auburn - South         23         1%         86%         E           Carbarmatta - Lansvale         23         1%         86%         E           Strathfield South         22         1%         86%         E           Strathfield - Wetherill Park         22         1%         86%   |                                  | -    |      |                       |           |
| North Parramatta         36         1%         71%         N           Guidford West - Merrylands West         36         1%         73%         W           Greystanes - Pemulvuy         36         1%         73%         W           Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         77%         S           Blacktown (East) - Kings Park         26         1%         83%         W           Erskineville - Alexandria         26         1%         83%         W           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         E           Stathfield South         22         1%         88%         S           Catherbury (South) - Campsie         20         1%         88%         S           SttLeonards - Naremburn         19 <t< td=""><td></td><td>-</td><td></td><td></td><td></td></t<>   |                                  | -    |      |                       |           |
| Guildford West - Merrylands West         36         1%         73%         W           Greystanes - Pemulwuy         36         1%         74%         W           Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         81%         V           Barkstown (East) - Kings Park         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         S           Auburn - South         23         1%         86%         S           Strathfield South         21         1%         86%         S           Cahrebruy (South) - Campsie         20         1%         89%         E           Strathfield Osoth         18         1%         91%         E           Yagoona - Birrong         17         1%         91% </td <td></td> <td></td> <td></td> <td></td> <td></td>  |                                  |      |      |                       |           |
| Greystanes - Pemulwuy         36         1%         74%         W           Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         78%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Cabramatta - Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         S           Catherbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Yermort - Utimo         18         16         1%   | North Parramatta                 | 36   | 1%   | 71%                   | N         |
| Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydrey - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         79%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         90%         E           Strathfield         16         1%         93%         S<  | Guildford West - Merrylands West | 36   | 1%   | 73%                   | W         |
| Baulkham Hills (West) - Bella Vista         34         1%         75%         N           Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         79%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         90%         E           Canterbury (South) - Campsie         20         1%         89% <td>Greystanes - Pemulwuy</td> <td>36</td> <td>1%</td> <td>74%</td> <td>W</td>   | Greystanes - Pemulwuy            | 36   | 1%   | 74%                   | W         |
| Sydney - Haymarket - The Rocks         33         1%         76%         E           Bankstown - North         33         1%         77%         S           Chipping Norton - Morebank         31         1%         78%         S           Liverpool         30         1%         78%         S           Burwood - Croydon         30         1%         81%         E           Blacktown (East) - Kings Park         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         S           Strathfield - Wetherill Park         22         1%         86%         S           St Leonards - Naremburn         19         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         93%  |                                  | 34   | 1%   | 75%                   | N         |
| Bankstown - North         33         1%         77%         S           Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         79%         S           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         S           Catherbury (South)         22         1%         86%         S           Strathfield South         21         86%         S         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         S     <   | · · · · · ·                      | -    |      |                       |           |
| Chipping Norton - Moorebank         31         1%         78%         S           Liverpool         30         1%         79%         S           Burwood - Croydon         30         1%         81%         E           Backtown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Auburn - South         23         1%         85%         E           Strathfield South         22         1%         86%         S           Strathfield South         22         1%         87%         W           Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         90%         E           Pyrmort - Utimo         18         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         S <td></td> <td></td> <td></td> <td></td> <td></td>  |                                  |      |      |                       |           |
| Liverpool         30         1%         79%         S           Burwood - Croydon         30         1%         81%         E           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         E           Stathfield South         22         1%         86%         E           Smithfield - Wetherill Park         22         1%         86%         E           Varwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         91%         S <td></td> <td></td> <td></td> <td></td> <td></td>  |                                  |      |      |                       |           |
| Burwood - Croydon         30         1%         81%         E           Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Auburn - South         23         1%         86%         S           Cabramatta - Lansvale         23         1%         86%         E           Strathfield South         22         1%         86%         E           Strathfield South         22         1%         87%         W           Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         90%         E           Yagoona - Birrong         17         1%         92%         E           Yennora Industrial         16         1%         93%         S           Punchbowl         16         1%         94%         S  |                                  |      |      |                       |           |
| Blacktown (East) - Kings Park         26         1%         81%         W           Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Auburn - South         23         1%         86%         E           Cabramatta - Lansvale         23         1%         86%         E           Strathfield South         22         1%         86%         E           Strathfield South         22         1%         86%         E           Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         89%         E           Sygoona - Birrong         17         1%         91%         E           Concord - Mortlake - Cabarita         17         1%         92%         S           Punchbowl         16         1%         93%         S           Canter our Moutsrial         16         1%         94%         S <td>Liverpool</td> <td></td> <td></td> <td></td> <td></td>   | Liverpool                        |      |      |                       |           |
| Erskineville - Alexandria         26         1%         82%         E           Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Cabramatta - Lansvale         23         1%         86%         S           Cabramatta - Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         E           Smithfield - Wetherill Park         22         1%         87%         W           Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           Pyrmot - Ultimo         18         1%         90%         E           Yagoona - Birrong         17         1%         92%         E           Vanora Industrial         16         1%         93%         S           Punchobowl         16         1%         93%         S           Pairfield - West         16         1%         94%         S           Cancerds - Lastlakes         14         0%         96%         E   | Burwood - Croydon                | 30   | 1%   | 81%                   | E         |
| Lalor Park - Kings Langley       26       1%       83%       W         Ryde       23       1%       84%       E         Auburn - South       23       1%       85%       E         Cabramatta - Lansvale       23       1%       86%       S         Strathfield South       22       1%       86%       E         Smithfield - Wetherill Park       22       1%       87%       W         Warwick Farm       21       1%       88%       S         Canterbury (South) - Campsie       20       1%       89%       E         St Leonards - Naremburn       19       1%       89%       E         Yagoona - Birrong       17       1%       91%       S         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       92%       S         Bass Hill - Georges Hall       16       1%       93%       S         Punchbowl       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Watertoo - Beaconsfield       15       1%       95%       S <tr< td=""><td>Blacktown (East) - Kings Park</td><td>26</td><td>1%</td><td>81%</td><td>W</td></tr<>   | Blacktown (East) - Kings Park    | 26   | 1%   | 81%                   | W         |
| Lalor Park - Kings Langley         26         1%         83%         W           Ryde         23         1%         84%         E           Auburn - South         23         1%         85%         E           Cabramatta - Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         E           Smithfield - Wetherill Park         22         1%         86%         E           Canterbury (South) - Campsie         20         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         93%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S  | Erskineville - Alexandria        | 26   | 1%   | 82%                   | E         |
| Ryde       23       1%       84%       E         Auburn - South       23       1%       85%       E         Cabramata - Lansvale       23       1%       86%       S         Strathfield South       22       1%       86%       E         Smithfield - Wetherill Park       22       1%       87%       W         Warwick Farm       21       1%       88%       S         Canterbury (South) - Campsie       20       1%       89%       E         Strathfield       18       1%       90%       E         Pyrmont - Ultimo       18       1%       91%       E         Yagoona - Birrong       17       1%       91%       S         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       93%       S         Punchbowl       16       1%       93%       S         Campbelltown - Woodbine       15       1%       94%       S         Watertoo - Beaconsfield       15       1%       96%       E         Mascot - Eastlakes       14       0%       96%       E         Padstow  |                                  | 26   | 1%   |                       |           |
| Auburn - South       23       1%       85%       E         Cabramatta - Lansvale       23       1%       86%       S         Strathfield South       22       1%       86%       E         Smithfield - Wetherill Park       22       1%       86%       S         Canterbury (South) - Campsie       20       1%       88%       S         Canterbury (South) - Campsie       20       1%       89%       E         Strathfield       18       1%       90%       E         Pyrmont - Ultimo       18       1%       91%       S         Yagoona - Birrong       17       1%       91%       S         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       93%       S         Punchbowl       16       1%       93%       S         Fairfield - West       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Waterloo - Beaconsfield       15       1%       96%       E         Mascot - Eastlakes       14       0%       96%       E <tr< td=""><td></td><td>-</td><td></td><td></td><td></td></tr<>   |                                  | -    |      |                       |           |
| Cabramatta - Lansvale         23         1%         86%         S           Strathfield South         22         1%         86%         E           Smithfield - Wetherill Park         22         1%         87%         W           Warwick Farm         21         1%         87%         W           Canterbury (South) - Campsie         20         1%         88%         S           St Leonards - Naremburn         19         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         93%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchowl         16         1%         94%         S           Campbelltown - Wootbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         S  |                                  |      |      |                       |           |
| Strathfield South       22       1%       86%       E         Smithfield - Wetherill Park       22       1%       87%       W         Warwick Farm       21       1%       88%       S         Canterbury (South) - Campsie       20       1%       88%       E         St Leonards - Naremburn       19       1%       89%       E         Strathfield       18       1%       90%       E         Pyrmont - Ultimo       18       1%       91%       S         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       92%       S         Bass Hill - Georges Hall       16       1%       93%       S         Punchbowl       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Waterloo - Beaconsfield       15       1%       95%       E         Mascot - Eastlakes       14       0%       96%       W         West Ryde - Meadowbank       14       0%       96%       E         Padstow       13       0%       97%       W   |                                  |      |      |                       |           |
| Smithfield - Wetherill Park         22         1%         87%         W           Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         E           Padstow         14         0%         96%         E  |                                  |      |      |                       |           |
| Warwick Farm         21         1%         88%         S           Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Erskine Park         14         0%         96%         E           Padstow         14         0%         96%         E <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>  |                                  |      |      |                       |           |
| Canterbury (South) - Campsie         20         1%         89%         E           St Leonards - Naremburn         19         1%         89%         E           Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Padstow         14         0%         96%         E           Padstow         13         0%         98%         E <td< td=""><td>Smithfield - Wetherill Park</td><td>22</td><td>1%</td><td>87%</td><td>W</td></td<>  | Smithfield - Wetherill Park      | 22   | 1%   | 87%                   | W         |
| St Leonards - Naremburn       19       1%       89%       E         Strathfield       18       1%       90%       E         Pyrmont - Ultimo       18       1%       91%       E         Yagoona - Birrong       17       1%       91%       E         Yagoona - Birrong       17       1%       91%       E         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       92%       S         Bass Hill - Georges Hall       16       1%       93%       S         Punchbowl       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Campbelltown - Woodbine       15       1%       95%       E         Waterloo - Beaconsfield       15       1%       95%       S         Erskine Park       14       0%       96%       W         West Ryde - Meadowbank       14       0%       96%       E         Padstow       13       0%       97%       S         Rooty Hill - Minchinbury       13       0%       98%       E         Glade  | Warwick Farm                     | 21   | 1%   | 88%                   | S         |
| Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Erskine Park         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         13         0%         97%         S           Gladesville - Huntleys Point         13         0%         98%         E           Prestons -  | Canterbury (South) - Campsie     | 20   | 1%   | 89%                   | E         |
| Strathfield         18         1%         90%         E           Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Erskine Park         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         13         0%         97%         S           Gladesville - Huntleys Point         13         0%         98%         E           Prestons -  | St Leonards - Naremburn          | 19   | 1%   | 89%                   | F         |
| Pyrmont - Ultimo         18         1%         91%         E           Yagoona - Birrong         17         1%         91%         S           Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Erskine Park         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         13         0%         97%         S           Canopt Hill - Minchinbury         13         0%         98%         E           Padstow         13         0%         98%         E           Gladesville - Hun  |                                  | -    |      |                       |           |
| Yagoona - Birrong       17       1%       91%       S         Concord - Mortlake - Cabarita       17       1%       92%       E         Yennora Industrial       16       1%       92%       S         Bass Hill - Georges Hall       16       1%       93%       S         Punchbowl       16       1%       93%       S         Fairfield - West       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Mascot - Eastlakes       14       0%       95%       E         Mascot - Eastlakes       14       0%       96%       W         Erskine Park       14       0%       96%       E         West Ryde - Meadowbank       14       0%       96%       E         Padstow       14       0%       97%       S         Rooty Hill - Minchinbury       13       0%       98%       E         Lane Cove - Greenwich       13       0%       98%       E         Gladesville - Huntleys Point       13       0%       98%       S   |                                  |      |      |                       |           |
| Concord - Mortlake - Cabarita         17         1%         92%         E           Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         93%         S           Campbelltown - Woodbine         15         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Mascot - Eastlakes         14         0%         95%         E           Mascot - Eastlakes         14         0%         96%         W           Vest Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         13         0%         97%         S           Cocy - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S <t< td=""><td></td><td>-</td><td></td><td></td><td></td></t<>  |                                  | -    |      |                       |           |
| Yennora Industrial         16         1%         92%         S           Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S  | 8                                |      |      |                       |           |
| Bass Hill - Georges Hall         16         1%         93%         S           Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         93%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Rooty Hill - Minchinbury         13         0%         97%         S           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         Waterlage           Castle Hill - Central         12         0%         100% <td< td=""><td></td><td>  17</td><td>1%</td><td>92%</td><td>E</td></td<>   |                                  | 17   | 1%   | 92%                   | E         |
| Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W  |                                  |      |      |                       |           |
| Punchbowl         16         1%         93%         S           Fairfield - West         16         1%         94%         S           Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W  | Bass Hill - Georges Hall         | 16   | 1%   |                       |           |
| Fairfield - West       16       1%       94%       S         Campbelltown - Woodbine       15       1%       94%       S         Waterloo - Beaconsfield       15       1%       95%       E         Mascot - Eastlakes       14       0%       95%       S         Erskine Park       14       0%       96%       W         West Ryde - Meadowbank       14       0%       96%       E         Padstow       14       0%       96%       E         Padstow       14       0%       97%       S         Rooty Hill - Minchinbury       13       0%       97%       W         Lane Cove - Greenwich       13       0%       98%       E         Prestons - Edmondson Park       13       0%       99%       S         St Marys - North St Marys       13       0%       99%       W         Castle Hill - Central       12       0%       100%       N  | -                                | 16   | 1%   |                       |           |
| Campbelltown - Woodbine         15         1%         94%         S           Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Prestons - Edmondson Park         13         0%         98%         E           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   |                                  |      |      |                       |           |
| Waterloo - Beaconsfield         15         1%         95%         E           Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  |                                  |      |      |                       |           |
| Mascot - Eastlakes         14         0%         95%         S           Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  | •                                |      |      |                       |           |
| Erskine Park         14         0%         96%         W           West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   |                                  |      |      |                       |           |
| West Ryde - Meadowbank         14         0%         96%         E           Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  |                                  |      |      |                       |           |
| Padstow         14         0%         97%         S           Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   |                                  |      |      |                       |           |
| Rooty Hill - Minchinbury         13         0%         97%         W           Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   | -                                |      |      |                       |           |
| Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  | Padstow                          | 14   | 0%   | 97%                   | S         |
| Lane Cove - Greenwich         13         0%         98%         E           Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  | Rooty Hill - Minchinbury         | 13   | 0%   | 97%                   | W         |
| Gladesville - Huntleys Point         13         0%         98%         E           Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N  |                                  |      |      |                       |           |
| Prestons - Edmondson Park         13         0%         99%         S           St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   |                                  |      |      |                       |           |
| St Marys - North St Marys         13         0%         99%         W           Castle Hill - Central         12         0%         100%         N   | 5                                |      |      |                       |           |
| Castle Hill - Central 12 0% 100% N   |                                  |      |      |                       |           |
|  |                                  |      |      |                       |           |
| Epping - North Epping                   12          0%          100% E   |                                  |      |      |                       |           |
|  | Epping - North Epping            | 12   | 0%   | 100%                  | E         |

| Direction | Proportion |
|-----------|------------|
| Ν         | 12%        |
| E<br>S    | 36%        |
| S         | 20%        |
| W         | 15%        |
| Internal  | 17%        |
| Total     | 100%       |

#### P5825 Woodville Road Corridor TTS Distribution of Workers Residing within Granville - Clyde (2016 SA2 Region)

| The of Work (2010 CAL Region) Internet of Workers Interportion Journal and the portion Direction | Place of Work (2016 SA2 Region) Num | nber of Workers Proportion | Cumulative Proportion | Direction |
|--|-------------------------------------|----------------------------|-----------------------|-----------|
|--|-------------------------------------|----------------------------|-----------------------|-----------|

| Place of Work (2016 SA2 Region)     |      |      | Cumulative Proportion | Direction |
|-------------------------------------|------|------|-----------------------|-----------|
| Total                               | 3097 | 100% | -                     | -         |
| Granville - Clyde                   | 401  | 13%  |                       | Internal  |
| Parramatta - Rosehill               | 198  | 6%   | 19%                   |           |
| Homebush Bay - Silverwater          | 141  | 5%   | 24%                   |           |
| Merrylands - Holroyd                | 108  | 3%   | 27%                   |           |
| Guildford - South Granville         | 92   | 3%   |                       | Internal  |
| Macquarie Park - Marsfield          | 84   | 3%   | 33%                   |           |
| Lidcombe                            | 83   | 3%   | 36%                   |           |
| Auburn - Central                    | 74   | 2%   | 38%                   |           |
| Ermington - Rydalmere               | 73   | 2%   | 40%                   |           |
| Concord West - North Strathfield    | 67   | 2%   | 43%                   | E         |
| Prospect Reservoir                  | 66   | 2%   | 45%                   |           |
| Northmead                           | 65   | 2%   | 47%                   | N         |
| Chester Hill - Sefton               | 63   | 2%   | 49%                   | S         |
| North Parramatta                    | 63   | 2%   | 51%                   | N         |
| Homebush                            | 60   | 2%   | 53%                   | E         |
| Wetherill Park Industrial           | 59   | 2%   | 55%                   | W         |
| Baulkham Hills (West) - Bella Vista | 56   | 2%   | 57%                   | N         |
| Fairfield - East                    | 53   | 2%   | 58%                   | S         |
| Blacktown (East) - Kings Park       | 53   | 2%   | 60%                   | W         |
| Sydney - Haymarket - The Rocks      | 51   | 2%   | 62%                   | E         |
| Auburn - North                      | 49   | 2%   | 63%                   | E         |
| Smithfield Industrial               | 47   | 2%   | 65%                   | W         |
| Liverpool                           | 40   | 1%   | 66%                   |           |
| Guildford West - Merrylands West    | 36   | 1%   | 67%                   |           |
| Rooty Hill - Minchinbury            | 36   | 1%   | 68%                   |           |
| Pendle Hill - Girraween             | 36   | 1%   | 70%                   |           |
| Condell Park                        | 34   | 1%   | 71%                   |           |
| Chullora                            | 34   | 1%   | 72%                   |           |
| Greystanes - Pemulwuy               | 34   | 1%   | 73%                   |           |
| Burwood - Croydon                   | 32   | 1%   | 73%                   |           |
| Erskineville - Alexandria           | 31   | 1%   | 74%                   |           |
| Carlingford                         | 30   | 1%   | 75%                   |           |
| Fairfield                           | 29   | 1%   | 70%                   |           |
| Yennora Industrial                  | 29   | 1%   | 78%                   |           |
|                                     | 29   |      | 78%                   |           |
| St Leonards - Naremburn             | -    | 1%   |                       |           |
| Chipping Norton - Moorebank         | 27   | 1%   | 79%                   |           |
| Strathfield                         | 25   | 1%   | 80%                   |           |
|                                     | 23   | 1%   | 81%                   |           |
| Castle Hill - Central               | 22   | 1%   | 82%                   |           |
| Marrickville                        | 22   | 1%   | 82%                   |           |
| Wentworthville - Westmead           | 22   | 1%   | 83%                   |           |
| Greenacre - Mount Lewis             | 21   | 1%   | 84%                   |           |
| Lalor Park - Kings Langley          | 21   | 1%   | 85%                   |           |
| Pyrmont - Ultimo                    | 21   | 1%   | 85%                   |           |
| Mascot - Eastlakes                  | 21   | 1%   | 86%                   |           |
| Auburn - South                      | 20   | 1%   | 87%                   |           |
| Erskine Park                        | 20   | 1%   | 87%                   |           |
| Penrith                             | 19   | 1%   | 88%                   |           |
| Bankstown - South                   | 18   | 1%   | 88%                   | S         |
| Canterbury (South) - Campsie        | 17   | 1%   | 89%                   |           |
| Riverstone - Marsden Park           | 17   | 1%   | 89%                   |           |
| Regents Park                        | 16   | 1%   | 90%                   |           |
| Cabramatta - Lansvale               | 16   | 1%   | 91%                   |           |
| Lane Cove - Greenwich               | 16   | 1%   | 91%                   |           |
| West Ryde - Meadowbank              | 16   | 1%   | 92%                   |           |
| Sydney Airport                      | 16   | 1%   | 92%                   |           |
| Prestons - Edmondson Park           | 16   | 1%   | 93%                   |           |
| Ashfield                            | 16   | 1%   | 93%                   |           |
| Leichhardt - Annandale              | 16   | 1%   | 94%                   |           |
| Bankstown - North                   | 15   | 0%   | 94%                   | S         |
| Chatswood (East) - Artarmon         | 15   | 0%   | 95%                   | E         |
| Epping - North Epping               | 15   | 0%   | 95%                   |           |
| Seven Hills - Toongabbie            | 15   | 0%   | 96%                   |           |
| Strathfield South                   | 14   | 0%   | 96%                   |           |
| Bass Hill - Georges Hall            | 14   | 0%   | 96%                   |           |
| Kingswood - Werrington              | 14   | 0%   | 97%                   | W         |
| North Rocks                         | 14   | 0%   | 97%                   |           |
| Frenchs Forest - Belrose            | 14   | 0%   | 98%                   |           |
| Newtown - Camperdown - Darlington   | 14   | 0%   | 98%                   |           |
| Hurstville                          | 14   | 0%   | 99%                   |           |
| Glebe - Forest Lodge                | 14   | 0%   | 99%                   |           |
| North Ryde - East Ryde              | 13   |      |                       |           |
|                                     |      |      |                       |           |

| Direction | Proportion |
|-----------|------------|
| N         | 17%        |
| E<br>S    | 36%        |
| S         | 11%        |
| W         | 19%        |
| Internal  | 16%        |
| Total     | 100%       |

#### P5825 Woodville Road Corridor TTS Distribution of Workers Employed within Guildford - South Granville (2016 SA2 Region)

Place of Residence (2016 SA2 Region) Number of Workers Proportion Cumulative Proportion Direction

| Place of Residence (2016 SA2 Region) |      |      | Cumulative Proportion | Direction |
|--------------------------------------|------|------|-----------------------|-----------|
| Total                                | 3121 | 100% | -                     | -         |
| Granville - Clyde                    | 401  | 13%  | 13%                   | Internal  |
| Merrylands - Holroyd                 | 152  | 5%   |                       | W         |
| , ,                                  |      |      |                       |           |
| Guildford - South Granville          | 131  | 4%   | 22%                   | Internal  |
| Greystanes - Pemulwuy                | 83   | 3%   | 25%                   | W         |
| Guildford West - Merrylands West     | 81   | 3%   | 27%                   | W         |
| Parramatta - Rosehill                | 78   | 2%   | 30%                   | N         |
| Chester Hill - Sefton                | 62   | 2%   | 32%                   | S         |
|                                      |      |      |                       |           |
| Toongabbie - Constitution Hill       | 60   | 2%   | 34%                   |           |
| Seven Hills - Toongabbie             | 59   | 2%   | 35%                   | W         |
| Carlingford                          | 57   | 2%   | 37%                   | Ν         |
| Oatlands - Dundas Valley             | 53   | 2%   | 39%                   | N         |
| 5                                    |      |      |                       |           |
| Auburn - Central                     | 50   | 2%   | 41%                   |           |
| Lidcombe                             | 50   | 2%   | 42%                   | E         |
| St Clair                             | 50   | 2%   | 44%                   | W         |
| North Parramatta                     | 46   | 1%   | 45%                   | N         |
| Ermington - Rydalmere                | 42   | 1%   | 47%                   |           |
|                                      |      |      |                       |           |
| Rooty Hill - Minchinbury             | 42   | 1%   | 48%                   |           |
| Bass Hill - Georges Hall             | 41   | 1%   | 49%                   | S         |
| Northmead                            | 41   | 1%   | 51%                   | N         |
| Yagoona - Birrong                    | 41   | 1%   | 52%                   |           |
| 5                                    |      |      |                       |           |
| Berala                               | 38   | 1%   | 53%                   |           |
| Bossley Park - Abbotsbury            | 36   | 1%   | 54%                   |           |
| Parklea - Kellyville Ridge           | 36   | 1%   | 55%                   | N         |
| Pendle Hill - Girraween              | 36   | 1%   |                       | W         |
|                                      |      |      |                       | Ŵ         |
| Blacktown (West)                     | 35   | 1%   |                       |           |
| Fairfield                            | 35   | 1%   | 59%                   |           |
| Smithfield - Wetherill Park          | 35   | 1%   | 60%                   | W         |
| Baulkham Hills (West) - Bella Vista  | 34   | 1%   | 61%                   | N         |
|                                      | 34   | 1%   | 62%                   | N         |
| Kellyville                           | -    |      |                       |           |
| Blacktown (South)                    | 33   | 1%   | 63%                   | VV        |
| Fairfield - West                     | 33   | 1%   | 64%                   | S         |
| Glenmore Park - Regentville          | 33   | 1%   | 65%                   | W         |
| Glenwood                             | 32   | 1%   | 66%                   |           |
|                                      |      |      |                       |           |
| Punchbowl                            | 31   | 1%   | 67%                   |           |
| Ryde                                 | 31   | 1%   | 68%                   | E         |
| Winston Hills                        | 31   | 1%   | 69%                   | N         |
| Bonnyrigg Heights - Bonnyrigg        | 30   | 1%   | 70%                   |           |
|                                      |      |      |                       |           |
| Epping - North Epping                | 30   | 1%   | 71%                   |           |
| Fairfield - East                     | 30   | 1%   | 72%                   | S         |
| Wentworthville - Westmead            | 30   | 1%   | 73%                   | W         |
| Baulkham Hills (East)                | 29   | 1%   | 74%                   | N         |
|                                      |      |      |                       | W         |
| Hassall Grove - Plumpton             | 29   | 1%   |                       |           |
| Homebush Bay - Silverwater           | 29   | 1%   | 76%                   | E         |
| Burwood - Croydon                    | 28   | 1%   | 77%                   | E         |
| Eastwood - Denistone                 | 28   | 1%   | 78%                   | E         |
| Rouse Hill - Beaumont Hills          | 27   | 1%   | 79%                   |           |
|                                      |      |      |                       |           |
| West Hoxton - Middleton Grange       | 27   | 1%   |                       | S         |
| West Ryde - Meadowbank               | 26   | 1%   | 80%                   | E         |
| Lalor Park - Kings Langley           | 25   | 1%   | 81%                   | W         |
| Panania - Milperra - Picnic Point    | 25   | 1%   | 82%                   |           |
| Auburn - South                       | 23   | 1%   | 83%                   |           |
|                                      |      |      |                       |           |
| Cabramatta - Lansvale                | 24   | 1%   | 83%                   |           |
| Cambridge Park                       | 24   | 1%   | 84%                   | W         |
| Castlereagh - Cranebrook             | 24   | 1%   | 85%                   | W         |
| Doonside - Woodcroft                 | 24   | 1%   | 86%                   |           |
| Quakers Hill                         | 24   |      | 87%                   |           |
|                                      |      | 1%   | -                     |           |
| Blacktown (North) - Marayong         | 23   | 1%   | 87%                   |           |
| Canley Vale - Canley Heights         | 23   | 1%   | 88%                   | S         |
| Holsworthy - Wattle Grove            | 23   | 1%   | 89%                   | S         |
| Homebush                             | 23   | 1%   | 89%                   |           |
|                                      |      |      |                       |           |
| Riverstone - Marsden Park            | 23   | 1%   | 90%                   |           |
| Erskine Park                         | 22   | 1%   | 91%                   | W         |
| Lethbridge Park - Tregear            | 22   | 1%   | 92%                   | W         |
| Padstow                              | 22   | 1%   | 92%                   |           |
| Auburn - North                       | 21   | 1%   | 93%                   |           |
|                                      |      |      |                       |           |
| Bidwill - Hebersham - Emerton        | 21   | 1%   | 94%                   |           |
| Concord - Mortlake - Cabarita        | 21   | 1%   | 94%                   | E         |
| Macquarie Fields - Glenfield         | 21   | 1%   | 95%                   | S         |
| Dural - Kenthurst - Wisemans Ferry   | 20   | 1%   | 96%                   |           |
|                                      |      |      |                       |           |
| Green Valley                         | 20   | 1%   | 96%                   |           |
| Mount Annan - Currans Hill           | 20   | 1%   | 97%                   |           |
| North Rocks                          | 20   | 1%   | 98%                   | N         |
| Concord West - North Strathfield     | 19   | 1%   | 98%                   |           |
| Condell Park                         | 19   | 1%   | 99%                   |           |
|                                      |      |      |                       |           |
| Greenfield Park - Prairiewood        | 19   | 1%   | 99%                   |           |
| Minto - St Andrews                   | 19   | 1%   | 100%                  | S         |
|                                      |      |      |                       |           |

| Direction | Proportion |
|-----------|------------|
| N         | 17%        |
| E<br>S    | 15%        |
| S         | 17%        |
| W         | 34%        |
| Internal  | 17%        |
| Total     | 100%       |

#### P5825 Woodville Road Corridor TTS Distribution of Workers Employed within Granville - Clyde (2016 SA2 Region)

|   |                           | Description        |                       | Dimetion  |
|---|---------------------------|--------------------|-----------------------|-----------|
| Place of Residence (2016 SA2 Region) Total                    | Number of Workers<br>3121 | Proportion<br>100% | Cumulative Proportion | Direction |
| Granville - Clyde   | 401                       | 13%                | 13%                   | Internal  |
| Merrylands - Holroyd  | 152                       | 5%                 | 18%                   | W         |
| Guildford - South Granville                                   | 131                       | 4%                 |                       | Internal  |
| Greystanes - Pemulwuy   | 83                        | 3%                 | 25%                   |           |
| Guildford West - Merrylands West                              | 81                        | 3%                 | 27%                   |           |
| Parramatta - Rosehill<br>Chester Hill - Sefton                | 78                        | 2%<br>2%           | 30%<br>32%            |           |
| Toongabbie - Constitution Hill                                | 60                        | 2%                 | 32 %                  |           |
| Seven Hills - Toongabbie                                      | 59                        | 2%                 | 35%                   |           |
| Carlingford   | 57                        | 2%                 | 37%                   | N         |
| Oatlands - Dundas Valley                                      | 53                        | 2%                 | 39%                   |           |
| Auburn - Central  | 50                        | 2%                 | 41%                   |           |
| Lidcombe<br>St Clair  | 50<br>50                  | 2%<br>2%           | 42%<br>44%            |           |
| North Parramatta  | 46                        | 2%<br>1%           | 44%                   |           |
| Ermington - Rydalmere   | 40                        | 1%                 | 47%                   |           |
| Rooty Hill - Minchinbury                                      | 42                        | 1%                 | 48%                   |           |
| Bass Hill - Georges Hall                                      | 41                        | 1%                 | 49%                   | S         |
| Northmead   | 41                        | 1%                 | 51%                   |           |
| Yagoona - Birrong   | 41                        | 1%                 | 52%                   |           |
| Berala<br>Bossley Park - Abbotsbury                           | 38                        | 1%<br>1%           | 53%<br>54%            |           |
| Bossley Park - Abbotsbury<br>Parklea - Kellyville Ridge       | 36                        | 1%                 | 54%<br>55%            |           |
| Pendle Hill - Girraween                                       | 36                        | 1%                 | 57%                   |           |
| Blacktown (West)  | 35                        | 1%                 | 58%                   |           |
| Fairfield   | 35                        | 1%                 | 59%                   |           |
| Smithfield - Wetherill Park                                   | 35                        | 1%                 | 60%                   |           |
| Baulkham Hills (West) - Bella Vista                           | 34                        | 1%                 | 61%                   |           |
| Kellyville<br>Blacktown (South)                               | 34                        | 1%<br>1%           | 62%<br>63%            |           |
| Blacktown (South)<br>Fairfield - West                         | 33                        | 1%                 | 64%                   |           |
| Glenmore Park - Regentville                                   | 33                        | 1%                 | 65%                   |           |
| Glenwood  | 32                        | 1%                 | 66%                   |           |
| Punchbowl   | 31                        | 1%                 | 67%                   |           |
| Ryde  | 31                        | 1%                 | 68%                   |           |
| Winston Hills   | 31                        | 1%                 | 69%                   |           |
| Bonnyrigg Heights - Bonnyrigg<br>Epping - North Epping        | 30                        | 1%<br>1%           | 70%<br>71%            |           |
| Fairfield - East  | 30                        | 1%                 | 71%                   |           |
| Wentworthville - Westmead                                     | 30                        | 1%                 | 73%                   |           |
| Baulkham Hills (East)   | 29                        | 1%                 | 74%                   | N         |
| Hassall Grove - Plumpton                                      | 29                        | 1%                 | 75%                   |           |
| Homebush Bay - Silverwater                                    | 29                        | 1%                 | 76%                   |           |
| Burwood - Croydon<br>Eastwood - Denistone                     | 28                        | 1%<br>1%           | 77%<br>78%            |           |
| Rouse Hill - Beaumont Hills                                   | 20                        | 1%                 | 78%                   |           |
| West Hoxton - Middleton Grange                                | 27                        | 1%                 | 79%                   |           |
| West Ryde - Meadowbank  | 26                        | 1%                 | 80%                   |           |
| Lalor Park - Kings Langley                                    | 25                        | 1%                 | 81%                   |           |
| Panania - Milperra - Picnic Point                             | 25                        | 1%                 | 82%                   |           |
| Auburn - South<br>Cabramatta - Lansvale                       | 24                        | 1%<br>1%           | 83%<br>83%            |           |
| Cambridge Park  | 24                        | 1%                 | 84%                   |           |
| Castlereagh - Cranebrook                                      | 24                        | 1%                 | 85%                   |           |
| Doonside - Woodcroft  | 24                        | 1%                 | 86%                   |           |
| Quakers Hill  | 24                        | 1%                 | 87%                   | W         |
| Blacktown (North) - Marayong                                  | 23                        | 1%                 | 87%                   |           |
| Canley Vale - Canley Heights                                  | 23                        | 1%                 | 88%                   |           |
| Holsworthy - Wattle Grove<br>Homebush                         | 23                        | 1%<br>1%           | 89%<br>89%            |           |
| Riverstone - Marsden Park                                     | 23                        | 1%                 | 90%                   |           |
| Erskine Park  | 20                        | 1%                 | 91%                   |           |
| Lethbridge Park - Tregear                                     | 22                        | 1%                 | 92%                   |           |
| Padstow   | 22                        | 1%                 | 92%                   |           |
| Auburn - North  | 21                        | 1%                 | 93%                   |           |
| Bidwill - Hebersham - Emerton                                 | 21                        | 1%<br>1%           | 94%                   |           |
| Concord - Mortlake - Cabarita<br>Macquarie Fields - Glenfield | 21                        | 1%<br>1%           | 94%<br>95%            |           |
| Dural - Kenthurst - Wisemans Ferry                            | 20                        | 1%                 | 95%                   |           |
| Green Valley  | 20                        | 1%                 | 96%                   |           |
| Mount Annan - Currans Hill                                    | 20                        | 1%                 | 97%                   |           |
| North Rocks   | 20                        | 1%                 | 98%                   | N         |
| Concord West - North Strathfield                              | 19                        | 1%                 | 98%                   |           |
| Condell Park<br>Greenfield Park Prairiewood                   | 19<br>19                  | 1%<br>1%           | 99%                   |           |
| Greenfield Park - Prairiewood<br>Minto - St Andrews           | 19                        |                    | 99%<br>100%           |           |
|   | 1 13                      | 1 1/0              | 10070                 | -         |

| Direction | Proportion |
|-----------|------------|
| N         | 20%        |
| E         | 13%        |
| S         | 16%        |
| W         | 34%        |
| Internal  | 17%        |
| Total     | 100%       |