



Proposed Residential Subdivision 2 Brisbane Grove Road, Brisbane Grove

Traffic and Parking Assessment Report

Prepared for: Mr K. Davies

October 2021

Report No: PT21012r01_Final

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1. Introduction

This report has been prepared on behalf of Mr K. Davies to present findings of a traffic and access assessment of the proposed residential subdivision of the site known as LOT 60 DP1090981 and LOTS 61 - 64 & 71 - 77 DP976708, 2 Brisbane Grove Road, Brisbane Grove.

The study has assessed existing traffic conditions, access arrangements, future traffic conditions and design compliance with applicable standards and policies.

The remainder of the report is set out as follows:

- Section 2 describes the existing traffic and parking conditions;
- Section 3 summarises the proposed development;
- Section 4 reviews the potential traffic impacts of the proposal; and
- Section 5 presents the conclusions



2. Existing Development / Conditions

The following presents a summary of existing site and traffic conditions.

2.1 Site Location

The proposed site for subdivision is located south of the Goulburn City Centre and south of the Hume Highway. The existing site is a greenfield site and does not generate any traffic. The location of the development site is shown in **Figure 1**.

Figure 1 - Site Location



Source: Nearmap

The site includes frontages to Brisbane Grove Road in the north, Braidwood Road in the west and Johnsons Lane in the south.

2.2 Existing Site Traffic Generation

As stated above the existing site is a greenfield site and does not generate any traffic.

2.3 Classification Criteria

It is usual to classify roads according to a road hierarchy in order to determine their functional role within the road network. Changes to traffic flows on the roads can then be assessed within the context of the road hierarchy. Roads are classified according to the role they fulfil and the volume of traffic they should appropriately carry. The RTA has set down the following guidelines for the functional classification of roads.

- Arterial Road – typically a main road carrying over 15,000 vehicles per day and fulfilling a role as a major inter-regional link (over 1,500 vehicles per hour)
- Sub-arterial Road – defined as secondary inter-regional links, typically carrying volumes between 5,000 and 20,000 vehicles per day (500 to 2,000 vehicles per hour)
- Collector Road – provides a link between local roads and regional roads, typically carrying between 2,000 and 10,000 vehicles per day (250 to 1,000 vehicles per hour). At volumes greater than 5,000 vehicles per day, residential amenity begins to decline noticeably.
- Local Road – provides access to individual allotments, carrying low volumes, typically less than 2,000 vehicles per day (250 vehicles per hour).

2.4 Existing Road Network

Braidwood Road – is a key collector road through the local area linking the Goulburn City Centre in the north (via an underpass under the Hume Highway) to regional suburbs in the south including Springfield and Tarago. Across the frontage of the site the road includes a single lane of travel in each direction with 1.0-1.5m wide asphalt shoulders. In the vicinity of the sub division site the road includes a posted speed limit of 100km/hr.

Brisbane Grove Road – is a local east-west street linking Braidwood Road in the west with Windellama Road in the east. The intersection of Braidwood Road / Brisbane Grove Road includes a priority-controlled intersection. Brisbane Grove Road includes a pavement width of 5.5m – 6.0m and unformed shoulders on either side. No formal speed limit is posted in the street and thus whilst local in nature also includes a speed limit of 100km/hr.

Johnsons Lane – is a local street linking Braidwood Road in the west and forms a cul-de-sac in the east. The intersection of Braidwood Road / Johnsons Lane also includes a priority-controlled intersection. Brisbane Grove Road includes a pavement width of 5.5m – 6.0m and unformed shoulders on either side. No formal speed limit is posted in the street and thus whilst local in nature also includes a speed limit of 100km/hr.

Garoorigang Street – is a local street linking Braidwood Road to the Hume Street grade separated interchange roundabout. The street provides an underpass (2.7m height clearance) and includes a priority-controlled intersection with Braidwood Road. The street includes a pavement width of approximately 6.5m with unformed shoulders and a posted speed limit of 80km/hr.

2.5 Existing Traffic Flows

To gauge existing traffic flows on the surrounding road network intersection counts were undertaken at a number of locations around the development site. The identified locations for weekday AM / PM peak period counts are shown below in **Figure 2** and include:

1. Hume Highway / Hume Street Grade Separated Interchange
2. Sloane Street / Braidwood Road / Mundy Street; and
3. Braidwood Road / Garoorigang Street

Figure 2 – AM / PM Peak Period Count Locations



Copies of all intersection counts can be found in **Appendix A** of this report. The peak flows by direction in each street at each intersection are summarised below.

Table 1 – Existing Weekday Peak Period Volumes in vicinity of site (veh/hr)

Road	Location	Weekday AM		Weekday PM	
		NB/EB	SB/WB	NB/EB	SB/WB
Hume Street	North of Hume Highway	370	392	529	444
	South of Hume Highway	68	41	161	50
Garoorigang Street	West of Braidwood Road	21	74	55	80
Braidwood Road	East of Sloane Street	175	127	308	250
	North of Garoorigang Street	63	89	83	94
	South of Garoorigang Street	128	101	149	135

From **Table 1** it can be seen that existing flows on surrounding roads are in generally in line with their classification. Further, peak hour traffic volumes in Braidwood Road south of Garoorigang Street are quite low in the vicinity of the development site.

On the matter of mid block capacity of roads surveyed versus demands, the following mid block capacities are typical by road type.

Table 2 – Austroads 2020 Lane Mid Block Capacities

Type of lane	One-way mid-block capacity (pc/h)
Median or inner lane	
Divided road	1000
Undivided road	900
Middle lane (of a 3 lane carriageway)	
Divided road	900
Undivided road	1000
Kerb lane	
Adjacent to parking lane	900
Occasional parked vehicles	600
Clearway conditions	900

Source: Austroads (2020)

Therefore, the existing volume capacity ratios of each road surveyed around the development site is shown below in **Table 3**.

Table 3 – Volume / Capacity Analysis of Roads Surrounding Development Site

Road	Two Way Mid Block Capacity	AM Peak Hour Two Way Flow	AM Peak V/C	PM Peak Hour Two Way Flow	PM Peak V/C
Braidwood Road – South of Garoorigang Street	1,800	229	0.128	284	0.158
Garoorigang Street – West of Braidwood Road	1,800	95	0.052	135	0.075
Hume Street – South of Hume Highway	1,800	109	0.061	211	0.117

From **Table 3** it is evident that roads immediately in the vicinity of the development site have significant spare mid block capacity.

2.6 Existing Intersection Operating Conditions

All intersections surveyed have been analysed using the Sidra Intersection analysis program. Sidra Intersection determines the average delay that vehicles encounter, the degree of saturation of the intersection, and the level of service. The degree of saturation is the ratio of the arrival rate of vehicles to the capacity of the approach. Sidra Intersection provides analysis of the operating conditions which can be compared to the performance criteria set out in **Table 4**.

Table 4 – Level of Service Criteria

Level of Service	Average Delay per Vehicle (secs/veh)	Signals & Roundabouts	Give Way & Stop Signs
A	less than 14	Good operation	Good operation
B	15 to 28	Good with acceptable delays & spare capacity	Acceptable delays & Spare capacity
C	29 to 42	Satisfactory	Satisfactory, but accident study required
D	43 to 56	Operating near capacity	Near capacity & accident study required
E	57 to 70	At capacity; at signals, incidents will cause excessive delays Roundabouts require other control mode	At capacity, requires other control mode
F	> 70	Extra capacity required	Extreme delay, traffic signals or other major treatment required

Adapted from RTA Guide to Traffic Generating Developments, 2002.

For roundabouts and priority intersections, the reported average delay is for the individual movement with the highest average delay per vehicle. At signalised intersections, the reported average delay is over all movements. The two intersections surveyed have been modelled as a network given their close proximity to each other. The existing weekday and weekend day intersection operating conditions are presented in **Table 5**. Average delay is expressed in seconds per vehicle. It should be noted that given their close proximity the intersections have been modelled as a network within SIDRA.

Table 5 – Existing Weekday AM / PM Intersection Operating Conditions

Intersection	Control	Weekday AM Peak		Weekday PM Peak	
		Av Delay	LOS	Av Delay	LOS
Braidwood Rd / Sloane St	Priority	8.6	A	12.4	A
Braidwood Rd / Garoorigang St	Priority	6.1	A	6.3	A
Hume St / Garoorigang St	Roundabout	10.3	A	10.3	A

Avg Delay (sec/veh) is over all movements at signals, and for worst movement at priority and roundabouts

From **Table 5** it is noted that all intersections in the vicinity of the development site currently operate at a satisfactory level of service with spare capacity.

Copies of the SIDRA outputs are provided in **Appendix B** of this report.

2.7 Goulburn Mulwaree Council Urban Fringe Strategy

It is noted that the subject site is located within the land confines identified in the Goulburn Mulwaree Council Urban Fringe Strategy which is described below:

This Urban and Fringe Housing Strategy (Strategy) investigates and identifies areas suitable for the provision of additional housing to assist Goulburn Mulwaree Council (Council) meet the housing demands generated by expected continued population growth. The Strategy has been prepared in response to both the limited supply of residential land available to meet the short and medium term needs of the community and the directions of the South East and Tablelands Regional Plan 2036.

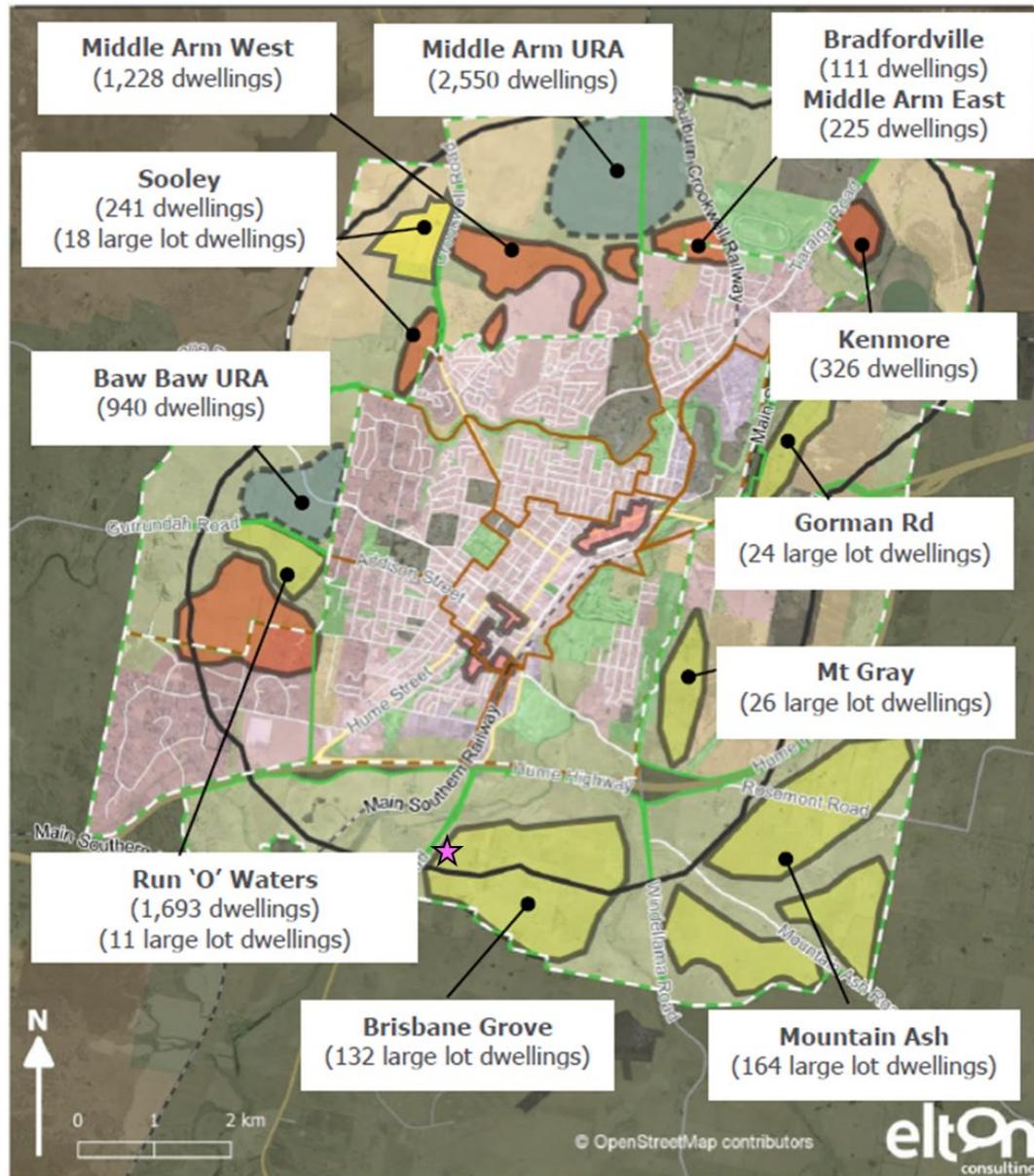
The scope of the Strategy includes looking at the urban areas of Goulburn and Marulan and identifying opportunities for an additional recommended 3,500 dwellings over the next 18 years to 2036.

*The Strategy also considers land for large lot residential development (typically greater than 2ha and often referred to as rural residential development) particularly on the urban fringe of Goulburn.*¹

The location of the development site in the context of the overall areas identified for increased housing is shown below in

¹ Goulburn Mulwaree Council Urban Fringe Strategy – Elton Consulting 2020

Figure 3 – Site Location within Goulburn Mulwaree Council Urban Fringe Strategy Precincts



2.8 Journey to Work Census Assessment

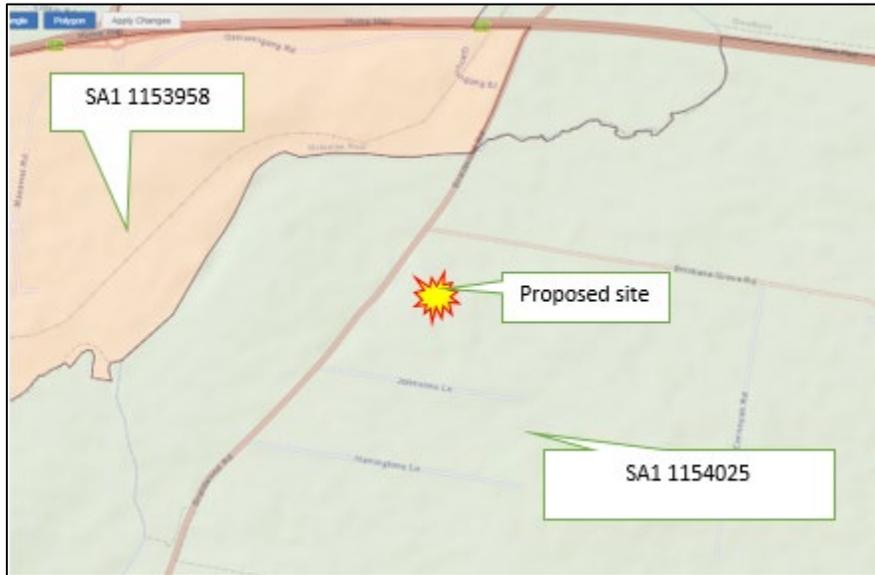
The following presents an assessment of the existing travel to work characteristics of the Goulburn area including the subject site. This provides an indication of the potential travel patterns of the residents of the proposed sub division.

The 2016 Census of Population and Housing collected information about how people travelled to work on Census day. In combination with information about where the person worked, it is possible to use the census data to provide an indication of how people travelled to work and where they travelled to.

Census data is reported at different levels of spatial resolution, from the small scale mesh blocks and statistical area level one (SA1) of around 150 to 200 dwellings, up the aggregated SA4, comprising many tens of thousands of dwellings.

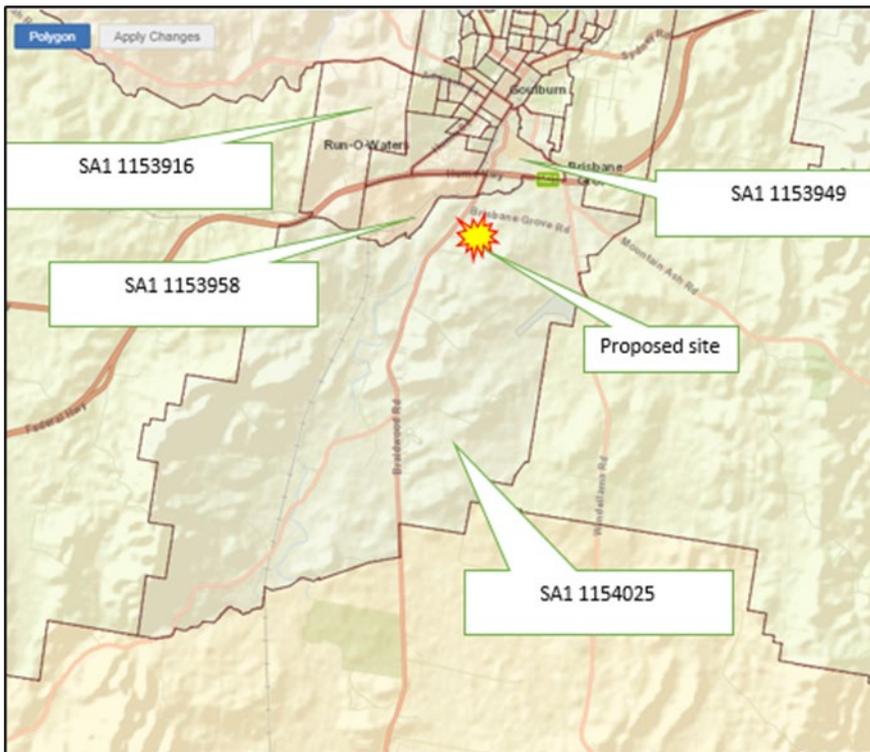
For this analysis the proposed site is located in SA1 1154025, as shown in [Figure 4](#).

Figure 4 – Proposed site and SA1 1154025



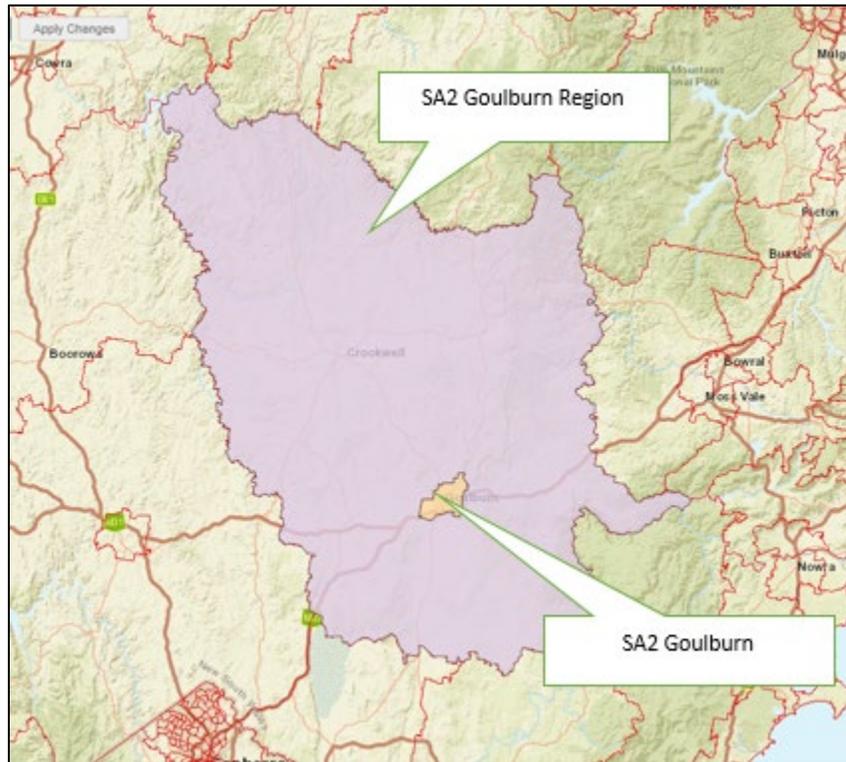
Site is shown within the context of Goulburn and other SA1s in the immediate surrounds in [Figure 5](#).

Figure 5 – Proposed site within context of Goulburn



The next level of the statistical hierarchy, SA2, is shown in [Figure 6](#).

Figure 6 – Statistical area level 2 (SA2) around Goulburn



This indicates that the main urban centre of Goulburn is contained within SA2 Goulburn, and this in turn is surrounded by SA2 Goulburn Region. The number and type of dwellings in these two SA2s are summarised in [Table 6](#).

Table 6 – Dwelling types, SA2-Goulburn and SA2-Goulburn Region, 2016 Census

Dwelling type	SA2 - Goulburn		SA2 - Goulburn Region	
	No.	%	No.	%
Occupied private dwellings	9,059	89%	5,036	74%
Unoccupied private dwellings	1,036	10%	1,777	26%
Non-private dwellings	71	1%	17	0%
Migratory	0	0%	0	0%
Off-shore	0	0%	0	0%
Shipping	0	0%	0	0%
Total	10,166	100%	6,830	100%

Source: ABS TableBuilder Pro

This summary indicates that almost all dwellings in each SA2 are private dwellings, with SA2 – Goulburn having a lower proportion (10% versus 26%) of unoccupied private dwellings than SA2 – Goulburn Region. This is likely due to a smaller proportion of holiday homes in Goulburn than in Goulburn Region. Also, it should be noted that despite SA2 - Goulburn being much smaller in area than SA2 - Goulburn Region, it has substantially more dwellings.

The distribution of dwelling structures in these two SA2s is shown in **Table 7**.

Table 7 – Distribution of dwelling structures, SA2-Goulburn and SA2-Goulburn Region, 2016 Census

Dwelling structure	SA2 - Goulburn		SA2 - Goulburn Region	
	No.	%	No.	%
Separate house	8,335	82%	6,419	94%
Semi-detached, row or terrace house, townhouse etc. 1 storey	912	9%	72	1%
Semi-detached, row or terrace house, townhouse etc. 2+ storeys	153	2%	9	0%
House or flat attached to a shop, office, etc.	48	0%	27	0%
Flat or apartment attached to a house	5	0%	0	0%
Flat or apartment in a one or two storey block	407	4%	8	0%
Flat or apartment in a three storey block	92	1%	0	0%
Flat or apartment in a four or more storey block	0	0%	0	0%
Caravan	39	0%	63	1%
Cabin, houseboat	31	0%	87	1%
Improvised home, tent, sleepers out	11	0%	79	1%
Not applicable	71	1%	17	0%
Not stated	65	1%	50	1%
Total	10,169	100%	6,831	100%

Source: ABS TableBuilder Pro

This analysis indicates that in the more urban SA2-Goulburn, separate dwelling structures are still dominate, although there are appreciably more town houses and apartments than in SA2-Goulburn Region. The mode shares for the journey to work for these two SA2s are summarised in **Table 8**.

Table 8 – Mode share for JTW from SA2-Goulburn and SA2-Goulburn Region, 2016 Census

Mode	SA2-Goulburn		SA2-Goulburn Region	
	No.	% of those who commuted	No.	% of those who commuted
Train	25	0.3%	24	0.6%
Bus	80	0.9%	23	0.6%
Ferry	0	0.0%	4	0.1%
Tram	0	0.0%	0	0.0%
Car Dr	7,116	82.2%	3,442	82.4%
Car px	704	8.1%	228	5.5%
Motorbike/scooter	44	0.5%	43	1.0%
Bicycle	25	0.3%	5	0.1%
Walked	422	4.9%	197	4.7%
Other	241	2.8%	213	5.1%
DNGTW	978		595	
Worked at home	256		746	
NS	112		86	
Total	10,003	100.0%	5,606	100.0%
<i>Travelled</i>	8,657		4,179	

DNGTW – did not go to work; NS – not stated

Source: ABS TableBuilder Pro

The above mode shares indicate that car as driver is the most common JTW mode, in combination with car passenger, it accounted for some 90% of commuter trips.

The distribution of JTW trips was examined using SA2 to local government area (LGA) geography. We have coded LGAs in Greater Sydney to an area termed Gt Sydney to make the analysis more useful and easier to follow.

Table 9 – Commuter travel patterns from usual residence at SA2 to place of work LGA, car driver and car passenger, 2016 Census

Place of work LGA	From SA2 Goulburn		From SA2 Goulburn Region	
	No.	%	No.	%
Goulburn Mulwaree (A)	6,200	82%	1,748	48%
ACT	504	7%	283	8%
No Fixed Address (NSW)	309	4%	265	7%
Wingecarribee (A)	135	2%	205	6%
Gt Sydney	121	2%	150	4%
Queanbeyan-Palerang Regional (A)	118	2%	57	2%
Upper Lachlan Shire (A)	109	1%	900	25%
Yass Valley (A)	26	0%	20	1%
Wollongong (C)	11	0%	17	0%
Griffith (C)	7	0%	0	0%
Shellharbour (C)	5	0%	5	0%
Bathurst Regional (A)	5	0%	0	0%
Cabonne (A)	5	0%	0	0%
Hilltops (A)	4	0%	12	0%
Shoalhaven (C)	4	0%	10	0%
Albury (C)	3	0%	0	0%
Wagga Wagga (C)	3	0%	0	0%
Total	7,569	100%	3,672	100%

Note: 'No fixed address' includes contractors using home as their work base, including transport workers, trades, sales reps
Source: ABS TableBuilder Pro

As mentioned previously the site is situated in SA2 Goulburn Region, but at the southern edge of SA2 Goulburn and close to the urban location of Goulburn. The travel characteristics by occupants of the proposed housing at the site are more likely to mirror the existing residents of SA2 Goulburn as opposed to existing residents of SA2 Goulburn Region.

The above analysis indicates that a very large proportion of commute trips by car from SA2 Goulburn are to LGA of Goulburn at **82%**, which is not surprising given that, in approximate terms, the urban centre of Goulburn is relatively isolated from surrounding employment concentrations, being some 80 to 90km from the ACT and a similar distance from the Southern Highlands (which is a small employment centre). The ACT is the second highest destination at 7%, 'no fixed address' for place of work is the third highest at 4%, with Wingecarribee and Gt Sydney accounting for a combined 4%.

In terms of traffic assignment from the proposed site, the above analysis suggests the following approximate aggregations of demand along desire lines, with 'no fixed address' distributed across places:

- **Braidwood Road north, 80%**
 - into Goulburn and further north into SA2 Goulburn Region 80%
- **Braidwood Road south, 5%**
 - South into SA2 Goulburn Region: 5%
- **Hume Highway south/west, 9%**
 - ACT: 7%
 - Queanbeyan-Palerang: 2%
 - Yass: 0.3%
- **Hume Highway north/east, 6%**
 - Wingecarribee: 2%
 - Gt Sydney: 2%
 - Wollongong: 0.1%

The above distribution will be utilised in the future traffic conditions assessment.



3. The Proposed Development

The key components of the proposed development are summarised below

- A total of sixteen (16) rural residential lots (> 2.0Ha in size).
- New internal local road connection to Brisbane Grove Road serving 10 of the proposed 16 lots
- Six (6) lots fronting Johnsons Lane
- No direct vehicle access to Braidwood Road

Plans of the proposed development can be found in [Appendix C](#) of this report.



4. Potential Traffic Impacts

4.1 Introduction

The following presents an assessment of the potential traffic impacts of the proposal using the Roads and Traffic Authority Guide to Traffic Generating Developments standard approach.

4.2 Development Traffic Generation

Applying the Transport for NSW Technical Direction TDT2013/04a rate to suggests a regional area trip per dwelling rate of 0.78 trips per dwelling in the AM peak hour and 0.71 trips per dwelling in the PM peak.

Therefore, the proposed development of 16 rural residential lots would have the potential to generate **13** trips in the AM peak hour and **12** trips in the PM peak hour.

Overall, the potential traffic generation of the development would be low.

4.3 Trip Distribution

The adopted distribution of trips has been in line with the findings of the Census JTW assessment presented above in Section 2.8 above. To reflect residential living, AM outbound trips are expected to be 80% of the total AM peak generated with 20% inbound trips. The reverse would occur in the PM peak.

The resultant inbound / outbound trips in each peak period are presented below in **Table 10**.

Table 10 – Proposed Development Inbound / Outbound Peak Net Traffic Generation Estimate

Type	AM Peak Hour		PM Peak Hour	
	Inbound	Outbound	Inbound	Outbound
Total Generation	3	10	10	2

4.4 Future Mid-Block Capacity Conditions

The additional traffic generated by the proposed subdivision has been added to the immediate surrounding network in accordance with the adopted distribution of trips presented in Section 2.8 resulting in the following future mid-block capacity conditions.

Table 11 – Future Volume / Capacity Analysis of Roads Surrounding Development Site

Road	Two Way Mid Block Capacity	AM Peak Hour Two Way Flow	AM Peak V/C	PM Peak Hour Two Way Flow	PM Peak V/C
Braidwood Road – South of Garoorigang Street	1,800	242	0.134	296	0.164
Garoorigang Street – West of Braidwood Road	1,800	97	0.054	137	0.076
Hume Street – South of Hume Highway	1,800	111	0.062	213	0.118

From **Table 11** it is noted that upon full development of the proposed sub division, there would be negligible change in the volume capacity ratios on roads immediately surrounding the proposed development.

4.5 Future Intersection Operating Conditions

The additional traffic generated by the proposal has been added to the surrounding road network in accordance with the adopted distribution of trips presented above. The resulting future intersection operating conditions is presented below in **Table 12**.

Table 12 – Future Weekday AM / PM Intersection Operating Conditions

Intersection	Control	Weekday AM Peak		Weekday PM Peak	
		Av Delay	LOS	Av Delay	LOS
Braidwood Rd / Sloane St	Priority	8.7	A	12.5	A
Braidwood Rd / Garoorigang St	Priority	6.2	A	6.3	A
Hume St / Garoorigang St	Roundabout	10.3	A	10.3	A

Avg Delay (sec/veh) is over all movements at signals, and for worst movement at priority and roundabouts

From **Table 12** it is noted that the intersection surveyed in the vicinity of the proposed development would all continue to operate at a satisfactory level of service in the future upon full development of the subject site. Further, there would be no requirement for upgrades at the intersection to accommodate the traffic demands of the proposal.

Overall, the traffic impacts of the proposal are considered acceptable.

SIDRA outputs of all models are provided in **Appendix B** of this report.

4.6 Access Arrangements - Bushfire

As stated above, the majority of lots within the subdivision would include lot (front or rear) frontages to existing roads to the north (Brisbane Grove Road), west (Braidwood Road) and south (Johnsons Lane) where fire truck access would be easily gained to the dwellings. A new internal road would also be provided as an alternative fire truck access to fronting properties.

Whilst the subdivision would be initially isolated, the provision of a further perimeter road along the eastern boundary to separate yet developed residential land (as recommended by the NSW Rural Fire Service Planning for Bushfire Projection Guidelines) appears to be unwarranted.

The proposed design would ensure access to all dwellings for fire vehicles would fully comply with the minimum requirements of the NSW Rural Fire Service Guidelines for Single Residential Development would be achieved within the design. These include:

The following identifies the requirements from PBP 2019 that are required for property access.

Not all access requirements will be applicable to a particular development due to site specific conditions (e.g. some dwelling sites may be located physically close enough to a public road to avoid the need for passing bays). However where compliance with the following requirements is not possible, a performance based solution may be needed.

There are no specific access requirements in an urban area where an unobstructed path (no greater than 70m) is provided between the most distant external part of the proposed dwelling and the nearest part of the public access road (where the road speed limit is not greater than 70kph) that supports the operational use of emergency firefighting vehicles.



5. Conclusions

This report has reviewed the potential traffic impacts of the proposed sixteen (16) lot rural residential subdivision at the known as 2 Brisbane Grove Road, Brisbane Grove. The findings of this assessment are presented below:

1. The potential traffic generation of the development would not impact on the surrounding road network to a point of detriment.
2. Intersections in the immediate vicinity of the development would operate at a satisfactory level of service in the future at full development without any need for capacity improvements.
3. The proposed design would ensure fire vehicle access to properties fully complies with the requirements of the NSW Rural Fire Service Single Dwelling Guidelines.

Overall the traffic impacts of the proposal are considered acceptable.

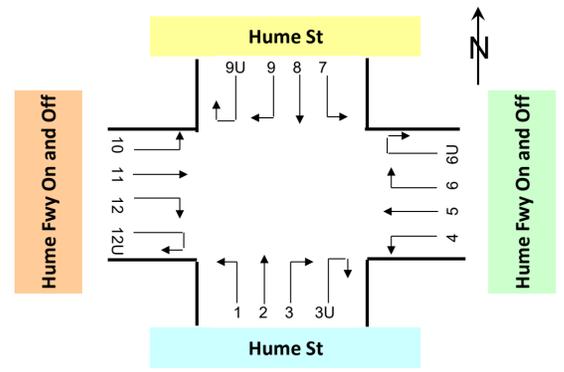


6. Appendix A – Intersection Count



Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 1. Hume St / Hume Fwy On and Off ramps

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
: 15 mins Data



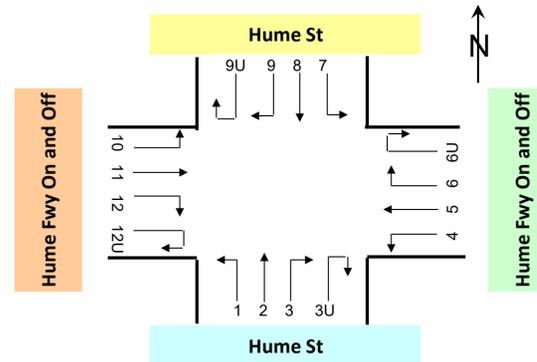
Classifications	Class 1	Class 2
	Lights	Heavies

Approach	Hume St												Hume Fwy On and Off ramps											
	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3 (Right Turn)			Direction 3U (U Turn)			Direction 4 (Left Turn)			Direction 5 (Through)			Direction 6 (Right Turn)			Direction 6U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 6:15	12	1	13	2	0	2	2	0	2	0	0	0	2	0	2	0	0	0	6	2	8	0	0	0
6:15 to 6:30	7	0	7	3	0	3	1	0	1	0	0	0	1	0	1	0	0	0	8	0	8	0	0	0
6:30 to 6:45	4	0	4	5	1	6	4	0	4	0	0	0	1	0	1	0	0	0	10	5	15	0	0	0
6:45 to 7:00	4	0	4	2	0	2	2	0	2	0	0	0	0	1	1	0	0	0	19	5	24	0	0	0
7:00 to 7:15	6	4	10	7	1	8	0	0	0	0	0	0	1	1	2	0	0	0	11	0	11	0	0	0
7:15 to 7:30	11	2	13	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	17	4	21	0	0	0
7:30 to 7:45	4	0	4	6	1	7	0	1	1	0	0	0	1	0	1	0	0	0	20	4	24	0	0	0
7:45 to 8:00	11	1	12	7	0	7	2	0	2	0	0	0	2	1	3	0	0	0	19	4	23	0	0	0
8:00 to 8:15	5	3	8	3	0	3	1	0	1	0	0	0	1	2	3	0	0	0	17	6	23	0	0	0
8:15 to 8:30	13	0	13	6	0	6	1	0	1	0	0	0	0	1	1	0	0	0	15	2	17	0	0	0
8:30 to 8:45	6	4	10	5	0	5	0	0	0	0	0	0	0	1	1	0	0	0	18	6	24	0	0	0
8:45 to 9:00	9	1	10	9	0	9	2	0	2	0	0	0	1	2	3	0	0	0	11	6	17	0	0	0
AM Totals	92	16	108	56	3	59	15	1	16	0	0	0	11	9	20	0	0	0	171	44	215	0	0	0
15:00 to 15:15	10	3	13	12	0	12	0	1	1	0	0	0	1	0	1	0	0	0	14	4	18	0	0	0
15:15 to 15:30	9	5	14	39	0	39	2	0	2	0	0	0	2	0	2	0	0	0	18	4	22	0	0	0
15:30 to 15:45	5	0	5	41	1	42	4	0	4	0	0	0	1	0	1	0	0	0	15	4	19	0	0	0
15:45 to 16:00	12	2	14	12	0	12	2	1	3	0	0	0	2	0	2	0	0	0	18	4	22	0	0	0
16:00 to 16:15	8	4	12	8	0	8	3	0	3	0	0	0	2	0	2	0	0	0	9	3	12	0	0	0
16:15 to 16:30	8	1	9	4	2	6	2	0	2	0	0	0	3	0	3	0	0	0	11	1	12	0	0	0
16:30 to 16:45	6	0	6	9	0	9	3	0	3	0	0	0	3	0	3	0	0	0	7	2	9	0	0	0
16:45 to 17:00	6	2	8	3	0	3	1	1	2	0	0	0	1	1	2	0	0	0	11	1	12	0	0	0
17:00 to 17:15	3	0	3	0	0	0	2	0	2	0	0	0	3	0	3	0	0	0	13	2	15	0	0	0
17:15 to 17:30	12	1	13	5	0	5	2	0	2	0	0	0	4	1	5	0	0	0	16	0	16	0	0	0
17:30 to 17:45	5	1	6	6	0	6	3	0	3	0	0	0	3	1	4	0	0	0	14	2	16	0	0	0
17:45 to 18:00	7	2	9	2	0	2	1	0	1	0	0	0	1	0	1	0	0	0	5	4	9	0	0	0
PM Totals	91	21	112	141	3	144	25	3	28	0	0	0	26	3	29	0	0	0	151	31	182	0	0	0

Approach	Hume St												Hume Fwy On and Off ramps											
Direction	Direction 7 (Left Turn)			Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 11 (Through)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 6:15	12	4	16	1	0	1	58	6	64	0	0	0	16	5	21	0	0	0	0	1	1	0	0	0
6:15 to 6:30	6	4	10	3	2	5	60	2	62	0	0	0	20	2	22	0	0	0	0	0	0	0	0	0
6:30 to 6:45	11	2	13	3	0	3	63	4	67	0	0	0	39	5	44	0	0	0	2	0	2	0	0	0
6:45 to 7:00	10	9	19	4	0	4	88	9	97	0	0	0	31	6	37	0	0	0	2	1	3	0	0	0
7:00 to 7:15	14	8	22	2	1	3	86	8	94	0	0	0	23	4	27	0	0	0	1	0	1	0	0	0
7:15 to 7:30	18	6	24	3	1	4	73	2	75	0	0	0	32	6	38	0	0	0	0	0	0	0	0	0
7:30 to 7:45	11	8	19	7	1	8	78	1	79	0	0	0	30	3	33	0	0	0	2	1	3	0	0	0
7:45 to 8:00	12	3	15	1	2	3	68	2	70	0	0	0	56	8	64	0	0	0	6	0	6	0	0	0
8:00 to 8:15	20	11	31	2	0	2	69	7	76	0	0	0	56	8	64	0	0	0	2	0	2	0	0	0
8:15 to 8:30	14	9	23	6	1	7	66	13	79	0	0	0	69	6	75	0	0	0	2	1	3	0	0	0
8:30 to 8:45	23	4	27	2	1	3	52	4	56	0	0	0	56	3	59	0	0	0	6	1	7	0	0	0
8:45 to 9:00	18	4	22	5	1	6	58	2	60	0	0	0	59	8	67	0	0	0	1	2	3	0	0	0
AM Totals	169	72	241	39	10	49	819	60	879	0	0	0	487	64	551	0	0	0	24	7	31	0	0	0
15:00 to 15:15	29	6	35	2	0	2	62	5	67	0	0	0	87	8	95	0	0	0	1	2	3	0	0	0
15:15 to 15:30	38	7	45	4	2	6	49	5	54	0	0	0	63	8	71	0	0	0	4	1	5	0	0	0
15:30 to 15:45	33	2	35	9	0	9	59	6	65	0	0	0	70	8	78	0	0	0	5	1	6	0	0	0
15:45 to 16:00	34	3	37	9	0	9	74	6	80	0	0	0	88	11	99	0	0	0	3	1	4	0	0	0
16:00 to 16:15	24	1	25	2	1	3	44	7	51	0	0	0	71	6	77	0	0	0	2	4	6	0	0	0
16:15 to 16:30	36	6	42	5	0	5	60	4	64	0	0	0	91	9	100	0	0	0	9	3	12	0	0	0
16:30 to 16:45	26	7	33	6	0	6	69	3	72	0	0	0	100	4	104	0	0	0	6	0	6	0	0	0
16:45 to 17:00	27	2	29	7	0	7	49	3	52	0	0	0	101	6	107	0	0	0	3	1	4	0	0	0
17:00 to 17:15	23	5	28	4	0	4	53	4	57	0	0	0	96	7	103	0	0	0	4	2	6	0	0	0
17:15 to 17:30	25	1	26	6	0	6	47	7	54	0	0	0	94	3	97	0	0	0	4	0	4	0	0	0
17:30 to 17:45	24	3	27	4	0	4	50	1	51	0	0	0	104	3	107	0	0	0	1	3	4	0	0	0
17:45 to 18:00	29	0	29	2	0	2	39	1	40	0	0	0	104	5	109	0	0	0	12	1	13	0	0	0
PM Totals	348	43	391	60	3	63	655	52	707	0	0	0	1,069	78	1,147	0	0	0	54	19	73	0	0	0

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 1. Hume St / Hume Fwy On and Off ramps

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
 : Hourly Summary

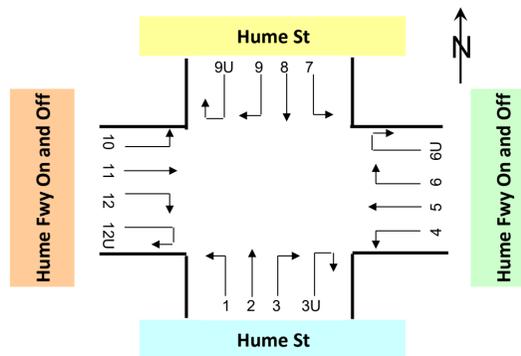


Approach	Hume St												Hume Fwy On and Off ramps											
	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3 (Right Turn)			Direction 3U (U Turn)			Direction 4 (Left Turn)			Direction 5 (Through)			Direction 6 (Right Turn)			Direction 6U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	27	1	28	12	1	13	9	0	9	0	0	0	4	1	5	0	0	0	43	12	55	0	0	0
6:15 to 7:15	21	4	25	17	2	19	7	0	7	0	0	0	3	2	5	0	0	0	48	10	58	0	0	0
6:30 to 7:30	25	6	31	15	2	17	6	0	6	0	0	0	3	2	5	0	0	0	57	14	71	0	0	0
6:45 to 7:45	25	6	31	16	2	18	2	1	3	0	0	0	3	2	5	0	0	0	67	13	80	0	0	0
7:00 to 8:00	32	7	39	21	2	23	2	1	3	0	0	0	5	2	7	0	0	0	67	12	79	0	0	0
7:15 to 8:15	31	6	37	17	1	18	3	1	4	0	0	0	5	3	8	0	0	0	73	18	91	0	0	0
7:30 to 8:30	33	4	37	22	1	23	4	1	5	0	0	0	4	4	8	0	0	0	71	16	87	0	0	0
7:45 to 8:45	35	8	43	21	0	21	4	0	4	0	0	0	3	5	8	0	0	0	69	18	87	0	0	0
8:00 to 9:00	33	8	41	23	0	23	4	0	4	0	0	0	2	6	8	0	0	0	61	20	81	0	0	0
AM Totals	92	16	108	56	3	59	15	1	16	0	0	0	11	9	20	0	0	0	171	44	215	0	0	0
15:00 to 16:00	36	10	46	104	1	105	8	2	10	0	0	0	6	0	6	0	0	0	65	16	81	0	0	0
15:15 to 16:15	34	11	45	100	1	101	11	1	12	0	0	0	7	0	7	0	0	0	60	15	75	0	0	0
15:30 to 16:30	33	7	40	65	3	68	11	1	12	0	0	0	8	0	8	0	0	0	53	12	65	0	0	0
15:45 to 16:45	34	7	41	33	2	35	10	1	11	0	0	0	10	0	10	0	0	0	45	10	55	0	0	0
16:00 to 17:00	28	7	35	24	2	26	9	1	10	0	0	0	9	1	10	0	0	0	38	7	45	0	0	0
16:15 to 17:15	23	3	26	16	2	18	8	1	9	0	0	0	10	1	11	0	0	0	42	6	48	0	0	0
16:30 to 17:30	27	3	30	17	0	17	8	1	9	0	0	0	11	2	13	0	0	0	47	5	52	0	0	0
16:45 to 17:45	26	4	30	14	0	14	8	1	9	0	0	0	11	3	14	0	0	0	54	5	59	0	0	0
17:00 to 18:00	27	4	31	13	0	13	8	0	8	0	0	0	11	2	13	0	0	0	48	8	56	0	0	0
PM Totals	91	21	112	141	3	144	25	3	28	0	0	0	26	3	29	0	0	0	151	31	182	0	0	0

Approach	Hume St												Hume Fwy On and Off ramps											
Direction	Direction 7 (Left Turn)			Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 11 (Through)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	39	19	58	11	2	13	269	21	290	0	0	0	106	18	124	0	0	0	4	2	6	0	0	0
6:15 to 7:15	41	23	64	12	3	15	297	23	320	0	0	0	113	17	130	0	0	0	5	1	6	0	0	0
6:30 to 7:30	53	25	78	12	2	14	310	23	333	0	0	0	125	21	146	0	0	0	5	1	6	0	0	0
6:45 to 7:45	53	31	84	16	3	19	325	20	345	0	0	0	116	19	135	0	0	0	5	2	7	0	0	0
7:00 to 8:00	55	25	80	13	5	18	305	13	318	0	0	0	141	21	162	0	0	0	9	1	10	0	0	0
7:15 to 8:15	61	28	89	13	4	17	288	12	300	0	0	0	174	25	199	0	0	0	10	1	11	0	0	0
7:30 to 8:30	57	31	88	16	4	20	281	23	304	0	0	0	211	25	236	0	0	0	12	2	14	0	0	0
7:45 to 8:45	69	27	96	11	4	15	255	26	281	0	0	0	237	25	262	0	0	0	16	2	18	0	0	0
8:00 to 9:00	75	28	103	15	3	18	245	26	271	0	0	0	240	25	265	0	0	0	11	4	15	0	0	0
AM Totals	169	72	241	39	10	49	819	60	879	0	0	0	487	64	551	0	0	0	24	7	31	0	0	0
15:00 to 16:00	134	18	152	24	2	26	244	22	266	0	0	0	308	35	343	0	0	0	13	5	18	0	0	0
15:15 to 16:15	129	13	142	24	3	27	226	24	250	0	0	0	292	33	325	0	0	0	14	7	21	0	0	0
15:30 to 16:30	127	12	139	25	1	26	237	23	260	0	0	0	320	34	354	0	0	0	19	9	28	0	0	0
15:45 to 16:45	120	17	137	22	1	23	247	20	267	0	0	0	350	30	380	0	0	0	20	8	28	0	0	0
16:00 to 17:00	113	16	129	20	1	21	222	17	239	0	0	0	363	25	388	0	0	0	20	8	28	0	0	0
16:15 to 17:15	112	20	132	22	0	22	231	14	245	0	0	0	388	26	414	0	0	0	22	6	28	0	0	0
16:30 to 17:30	101	15	116	23	0	23	218	17	235	0	0	0	391	20	411	0	0	0	17	3	20	0	0	0
16:45 to 17:45	99	11	110	21	0	21	199	15	214	0	0	0	395	19	414	0	0	0	12	6	18	0	0	0
17:00 to 18:00	101	9	110	16	0	16	189	13	202	0	0	0	398	18	416	0	0	0	21	6	27	0	0	0
PM Totals	348	43	391	60	3	63	655	52	707	0	0	0	1,069	78	1,147	0	0	0	54	19	73	0	0	0

Job No. : AUNSW379
 Client : Dean Brodie
 Suburb : Goulburn Traffic Surveys
 Location : 1. Hume St / Hume Fwy On and Off ramps

Day/Date : Thu, 25th Mar 2021
 Weather : Fine
 Description : Classified Intersection Count
 : Peak Hour Summary



Approach	Hume St			Hume Fwy On and Off ramps			Hume St			Hume Fwy On and Off ramps			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
AM 7:45 to 8:45	60	8	68	72	23	95	335	57	392	253	27	280	835
PM 15:00 to 16:00	148	13	161	71	16	87	402	42	444	321	40	361	1,053

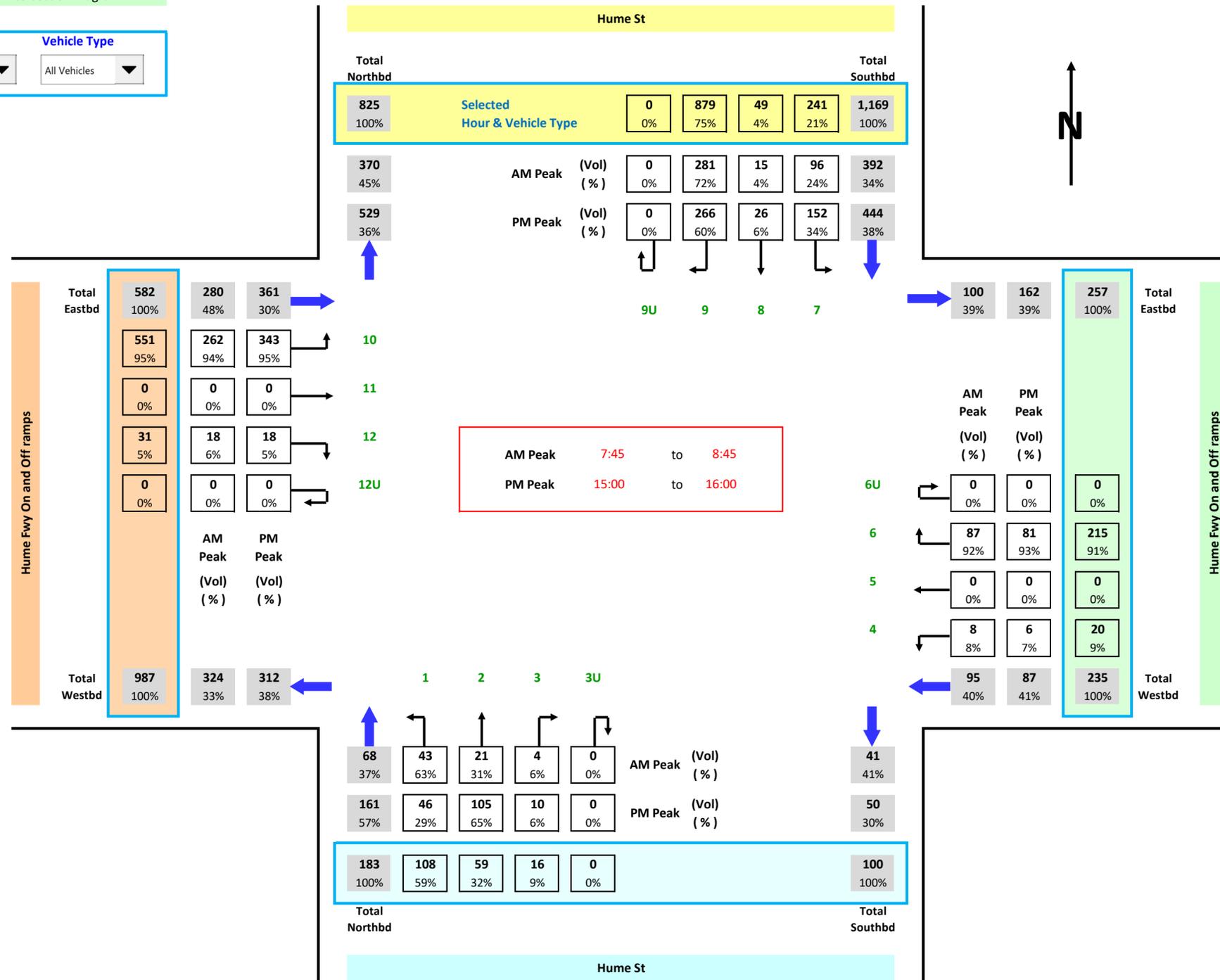
Approach	Hume St			Hume Fwy On and Off ramps			Hume St			Hume Fwy On and Off ramps			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
6:00 to 7:00	48	2	50	47	13	60	319	42	361	110	20	130	601
6:15 to 7:15	45	6	51	51	12	63	350	49	399	118	18	136	649
6:30 to 7:30	46	8	54	60	16	76	375	50	425	130	22	152	707
6:45 to 7:45	43	9	52	70	15	85	394	54	448	121	21	142	727
7:00 to 8:00	55	10	65	72	14	86	373	43	416	150	22	172	739
7:15 to 8:15	51	8	59	78	21	99	362	44	406	184	26	210	774
7:30 to 8:30	59	6	65	75	20	95	354	58	412	223	27	250	822
7:45 to 8:45	60	8	68	72	23	95	335	57	392	253	27	280	835
8:00 to 9:00	60	8	68	63	26	89	335	57	392	251	29	280	829
AM Totals	163	20	183	182	53	235	1,027	142	1,169	511	71	582	2,169
15:00 to 16:00	148	13	161	71	16	87	402	42	444	321	40	361	1,053
15:15 to 16:15	145	13	158	67	15	82	379	40	419	306	40	346	1,005
15:30 to 16:30	109	11	120	61	12	73	389	36	425	339	43	382	1,000
15:45 to 16:45	77	10	87	55	10	65	389	38	427	370	38	408	987
16:00 to 17:00	61	10	71	47	8	55	355	34	389	383	33	416	931
16:15 to 17:15	47	6	53	52	7	59	365	34	399	410	32	442	953
16:30 to 17:30	52	4	56	58	7	65	342	32	374	408	23	431	926
16:45 to 17:45	48	5	53	65	8	73	319	26	345	407	25	432	903
17:00 to 18:00	48	4	52	59	10	69	306	22	328	419	24	443	892
PM Totals	257	27	284	177	34	211	1,063	98	1,161	1,123	97	1,220	2,876

Job No. : AUNSW379
 Client : Dean Brodie
 Suburb : Goulburn Traffic Surveys
 Location : 1. Hume St / Hume Fwy On and Off ramps

Day/Date : Thu, 25th Mar 2021
 Weather : Fine
 Description : Classified Intersection Count
 : Intersection Diagram

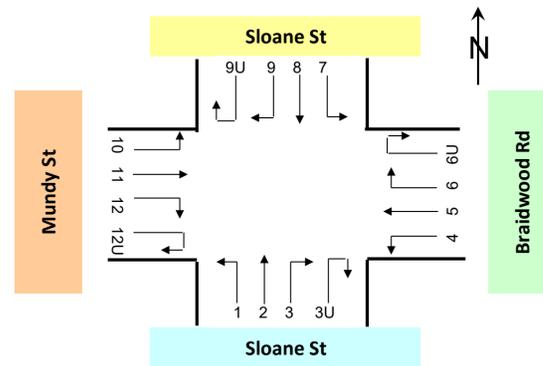


Hour Starting: AM Totals
 Vehicle Type: All Vehicles



Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 2. Sloane St / Braidwood Rd / Mundy St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
: 15 mins Data



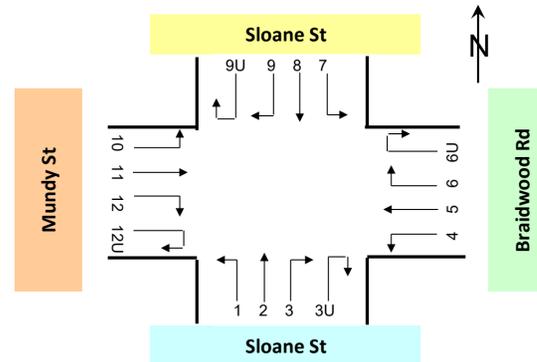
Classifications	Class 1	Class 2
	Lights	Heavies

Approach	Sloane St												Braidwood Rd											
	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3 (Right Turn)			Direction 3U (U Turn)			Direction 4 (Left Turn)			Direction 5 (Through)			Direction 6 (Right Turn)			Direction 6U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 6:15	0	0	0	6	0	6	1	2	3	0	0	0	1	0	1	0	0	0	8	1	9	0	0	0
6:15 to 6:30	1	0	1	8	2	10	0	1	1	0	0	0	1	1	2	1	0	1	13	1	14	0	0	0
6:30 to 6:45	1	0	1	11	0	11	3	1	4	0	0	0	6	1	7	0	1	1	12	3	15	0	0	0
6:45 to 7:00	1	0	1	14	0	14	2	0	2	0	0	0	2	1	3	2	0	2	17	1	18	0	0	0
7:00 to 7:15	0	0	0	10	0	10	1	0	1	0	0	0	5	4	9	1	0	1	11	3	14	0	0	0
7:15 to 7:30	0	0	0	15	1	16	1	2	3	0	0	0	2	3	5	1	0	1	17	1	18	0	0	0
7:30 to 7:45	2	0	2	19	0	19	0	4	4	0	0	0	1	2	3	2	0	2	18	7	25	0	0	0
7:45 to 8:00	0	0	0	40	3	43	2	0	2	0	0	0	1	1	2	3	1	4	22	2	24	0	0	0
8:00 to 8:15	1	0	1	32	3	35	6	2	8	0	0	0	2	1	3	4	1	5	19	6	25	0	0	0
8:15 to 8:30	4	0	4	51	2	53	3	3	6	0	0	0	0	3	3	4	1	5	24	2	26	0	0	0
8:30 to 8:45	3	0	3	39	4	43	3	0	3	0	0	0	1	0	1	3	1	4	16	1	17	0	0	0
8:45 to 9:00	2	0	2	35	3	38	5	4	9	0	0	0	4	0	4	4	0	4	28	2	30	0	0	0
AM Totals	15	0	15	280	18	298	27	19	46	0	0	0	26	17	43	25	5	30	205	30	235	0	0	0
15:00 to 15:15	6	0	6	36	5	41	9	1	10	0	0	0	4	4	8	7	0	7	26	4	30	0	0	0
15:15 to 15:30	2	0	2	45	3	48	6	2	8	0	0	0	4	3	7	10	1	11	27	4	31	0	0	0
15:30 to 15:45	2	0	2	63	7	70	5	0	5	0	0	0	9	3	12	9	2	11	31	4	35	0	0	0
15:45 to 16:00	2	0	2	57	3	60	8	3	11	0	0	0	9	2	11	11	2	13	39	4	43	0	0	0
16:00 to 16:15	1	0	1	45	0	45	6	2	8	0	0	0	5	2	7	16	0	16	53	4	57	0	0	0
16:15 to 16:30	2	0	2	27	4	31	10	5	15	0	0	0	7	1	8	10	1	11	25	1	26	0	0	0
16:30 to 16:45	3	1	4	36	1	37	6	0	6	0	0	0	6	2	8	12	1	13	32	5	37	0	0	0
16:45 to 17:00	3	0	3	50	3	53	5	2	7	0	0	0	4	2	6	10	0	10	36	3	39	0	0	0
17:00 to 17:15	1	0	1	30	2	32	8	0	8	0	0	0	12	0	12	7	0	7	32	3	35	0	0	0
17:15 to 17:30	1	0	1	31	1	32	11	0	11	0	0	0	8	0	8	15	0	15	38	1	39	0	0	0
17:30 to 17:45	1	0	1	36	3	39	9	2	11	0	0	0	6	0	6	2	0	2	46	0	46	0	0	0
17:45 to 18:00	1	0	1	39	0	39	8	0	8	0	0	0	5	0	5	5	0	5	29	0	29	0	0	0
PM Totals	25	1	26	495	32	527	91	17	108	0	0	0	79	19	98	114	7	121	414	33	447	0	0	0

Approach	Sloane St												Mundy St											
Direction	Direction 7 (Left Turn)			Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 11 (Through)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 6:15	26	2	28	19	2	21	0	0	0	0	0	0	1	0	1	12	0	12	0	0	0	0	0	0
6:15 to 6:30	11	3	14	16	3	19	3	0	3	0	0	0	1	0	1	2	0	2	0	0	0	0	0	0
6:30 to 6:45	16	3	19	18	3	21	1	0	1	0	0	0	2	0	2	4	0	4	1	0	1	0	0	0
6:45 to 7:00	18	14	32	19	5	24	0	0	0	0	0	0	1	0	1	6	0	6	0	0	0	0	0	0
7:00 to 7:15	11	2	13	20	1	21	3	0	3	0	0	0	3	0	3	10	1	11	1	0	1	0	0	0
7:15 to 7:30	18	2	20	19	1	20	5	1	6	0	0	0	4	0	4	7	0	7	1	0	1	0	0	0
7:30 to 7:45	24	7	31	27	3	30	0	0	0	0	0	0	4	1	5	4	0	4	0	0	0	0	0	0
7:45 to 8:00	15	2	17	19	4	23	4	0	4	0	0	0	1	0	1	7	0	7	1	0	1	0	0	0
8:00 to 8:15	21	7	28	14	5	19	3	0	3	0	0	0	3	0	3	5	5	10	0	0	0	0	0	0
8:15 to 8:30	20	4	24	37	0	37	3	1	4	0	0	0	4	0	4	9	0	9	0	0	0	0	0	0
8:30 to 8:45	27	3	30	19	2	21	5	3	8	0	0	0	5	0	5	6	1	7	0	0	0	0	0	0
8:45 to 9:00	25	2	27	33	3	36	10	1	11	0	0	0	3	0	3	13	1	14	0	0	0	0	0	0
AM Totals	232	51	283	260	32	292	37	6	43	0	0	0	32	1	33	85	8	93	4	0	4	0	0	0
15:00 to 15:15	28	6	34	28	4	32	8	0	8	0	0	0	8	0	8	13	2	15	0	0	0	0	0	0
15:15 to 15:30	29	1	30	41	4	45	14	0	14	0	0	0	3	0	3	11	0	11	3	0	3	0	0	0
15:30 to 15:45	45	3	48	35	2	37	9	0	9	0	0	0	8	0	8	19	0	19	4	0	4	0	0	0
15:45 to 16:00	48	3	51	43	2	45	10	1	11	0	0	0	2	0	2	15	2	17	0	0	0	0	0	0
16:00 to 16:15	35	2	37	44	4	48	8	0	8	0	0	0	3	0	3	20	1	21	0	0	0	0	0	0
16:15 to 16:30	51	3	54	32	0	32	9	0	9	0	0	0	5	0	5	22	0	22	0	1	1	0	0	0
16:30 to 16:45	41	3	44	39	1	40	6	0	6	0	0	0	0	0	0	16	0	16	0	0	0	0	0	0
16:45 to 17:00	39	5	44	32	4	36	3	0	3	0	0	0	12	0	12	12	0	12	4	0	4	0	0	0
17:00 to 17:15	57	3	60	35	2	37	2	0	2	0	0	0	4	0	4	14	0	14	0	0	0	0	0	0
17:15 to 17:30	32	1	33	36	2	38	8	0	8	0	0	0	5	0	5	14	0	14	2	0	2	0	0	0
17:30 to 17:45	43	2	45	40	2	42	6	0	6	0	0	0	3	0	3	14	0	14	1	0	1	0	0	0
17:45 to 18:00	35	2	37	20	0	20	10	0	10	0	0	0	3	0	3	14	0	14	0	0	0	0	0	0
PM Totals	483	34	517	425	27	452	93	1	94	0	0	0	56	0	56	184	5	189	14	1	15	0	0	0

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 2. Sloane St / Braidwood Rd / Mundy St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
 : Hourly Summary

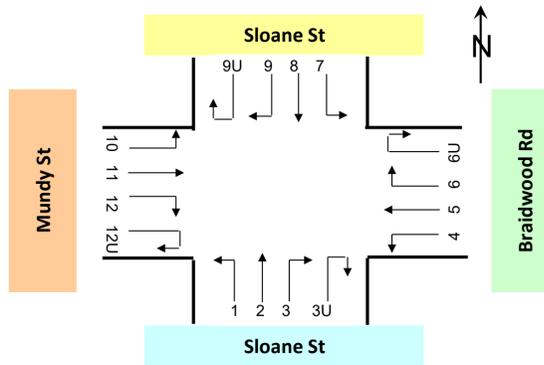


Approach	Sloane St												Braidwood Rd											
	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3 (Right Turn)			Direction 3U (U Turn)			Direction 4 (Left Turn)			Direction 5 (Through)			Direction 6 (Right Turn)			Direction 6U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	3	0	3	39	2	41	6	4	10	0	0	0	10	3	13	3	1	4	50	6	56	0	0	0
6:15 to 7:15	3	0	3	43	2	45	6	2	8	0	0	0	14	7	21	4	1	5	53	8	61	0	0	0
6:30 to 7:30	2	0	2	50	1	51	7	3	10	0	0	0	15	9	24	4	1	5	57	8	65	0	0	0
6:45 to 7:45	3	0	3	58	1	59	4	6	10	0	0	0	10	10	20	6	0	6	63	12	75	0	0	0
7:00 to 8:00	2	0	2	84	4	88	4	6	10	0	0	0	9	10	19	7	1	8	68	13	81	0	0	0
7:15 to 8:15	3	0	3	106	7	113	9	8	17	0	0	0	6	7	13	10	2	12	76	16	92	0	0	0
7:30 to 8:30	7	0	7	142	8	150	11	9	20	0	0	0	4	7	11	13	3	16	83	17	100	0	0	0
7:45 to 8:45	8	0	8	162	12	174	14	5	19	0	0	0	4	5	9	14	4	18	81	11	92	0	0	0
8:00 to 9:00	10	0	10	157	12	169	17	9	26	0	0	0	7	4	11	15	3	18	87	11	98	0	0	0
AM Totals	15	0	15	280	18	298	27	19	46	0	0	0	26	17	43	25	5	30	205	30	235	0	0	0
15:00 to 16:00	12	0	12	201	18	219	28	6	34	0	0	0	26	12	38	37	5	42	123	16	139	0	0	0
15:15 to 16:15	7	0	7	210	13	223	25	7	32	0	0	0	27	10	37	46	5	51	150	16	166	0	0	0
15:30 to 16:30	7	0	7	192	14	206	29	10	39	0	0	0	30	8	38	46	5	51	148	13	161	0	0	0
15:45 to 16:45	8	1	9	165	8	173	30	10	40	0	0	0	27	7	34	49	4	53	149	14	163	0	0	0
16:00 to 17:00	9	1	10	158	8	166	27	9	36	0	0	0	22	7	29	48	2	50	146	13	159	0	0	0
16:15 to 17:15	9	1	10	143	10	153	29	7	36	0	0	0	29	5	34	39	2	41	125	12	137	0	0	0
16:30 to 17:30	8	1	9	147	7	154	30	2	32	0	0	0	30	4	34	44	1	45	138	12	150	0	0	0
16:45 to 17:45	6	0	6	147	9	156	33	4	37	0	0	0	30	2	32	34	0	34	152	7	159	0	0	0
17:00 to 18:00	4	0	4	136	6	142	36	2	38	0	0	0	31	0	31	29	0	29	145	4	149	0	0	0
PM Totals	25	1	26	495	32	527	91	17	108	0	0	0	79	19	98	114	7	121	414	33	447	0	0	0

Approach	Sloane St												Mundy St											
Direction	Direction 7 (Left Turn)			Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 11 (Through)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	71	22	93	72	13	85	4	0	4	0	0	0	5	0	5	24	0	24	1	0	1	0	0	0
6:15 to 7:15	56	22	78	73	12	85	7	0	7	0	0	0	7	0	7	22	1	23	2	0	2	0	0	0
6:30 to 7:30	63	21	84	76	10	86	9	1	10	0	0	0	10	0	10	27	1	28	3	0	3	0	0	0
6:45 to 7:45	71	25	96	85	10	95	8	1	9	0	0	0	12	1	13	27	1	28	2	0	2	0	0	0
7:00 to 8:00	68	13	81	85	9	94	12	1	13	0	0	0	12	1	13	28	1	29	3	0	3	0	0	0
7:15 to 8:15	78	18	96	79	13	92	12	1	13	0	0	0	12	1	13	23	5	28	2	0	2	0	0	0
7:30 to 8:30	80	20	100	97	12	109	10	1	11	0	0	0	12	1	13	25	5	30	1	0	1	0	0	0
7:45 to 8:45	83	16	99	89	11	100	15	4	19	0	0	0	13	0	13	27	6	33	1	0	1	0	0	0
8:00 to 9:00	93	16	109	103	10	113	21	5	26	0	0	0	15	0	15	33	7	40	0	0	0	0	0	0
AM Totals	232	51	283	260	32	292	37	6	43	0	0	0	32	1	33	85	8	93	4	0	4	0	0	0
15:00 to 16:00	150	13	163	147	12	159	41	1	42	0	0	0	21	0	21	58	4	62	7	0	7	0	0	0
15:15 to 16:15	157	9	166	163	12	175	41	1	42	0	0	0	16	0	16	65	3	68	7	0	7	0	0	0
15:30 to 16:30	179	11	190	154	8	162	36	1	37	0	0	0	18	0	18	76	3	79	4	1	5	0	0	0
15:45 to 16:45	175	11	186	158	7	165	33	1	34	0	0	0	10	0	10	73	3	76	0	1	1	0	0	0
16:00 to 17:00	166	13	179	147	9	156	26	0	26	0	0	0	20	0	20	70	1	71	4	1	5	0	0	0
16:15 to 17:15	188	14	202	138	7	145	20	0	20	0	0	0	21	0	21	64	0	64	4	1	5	0	0	0
16:30 to 17:30	169	12	181	142	9	151	19	0	19	0	0	0	21	0	21	56	0	56	6	0	6	0	0	0
16:45 to 17:45	171	11	182	143	10	153	19	0	19	0	0	0	24	0	24	54	0	54	7	0	7	0	0	0
17:00 to 18:00	167	8	175	131	6	137	26	0	26	0	0	0	15	0	15	56	0	56	3	0	3	0	0	0
PM Totals	483	34	517	425	27	452	93	1	94	0	0	0	56	0	56	184	5	189	14	1	15	0	0	0

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 2. Sloane St / Braidwood Rd / Mundy St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
: Peak Hour Summary



Approach	Sloane St			Braidwood Rd			Sloane St			Mundy St			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
AM 8:00 to 9:00	184	21	205	109	18	127	217	31	248	48	7	55	635
PM 15:30 to 16:30	228	24	252	224	26	250	369	20	389	98	4	102	993

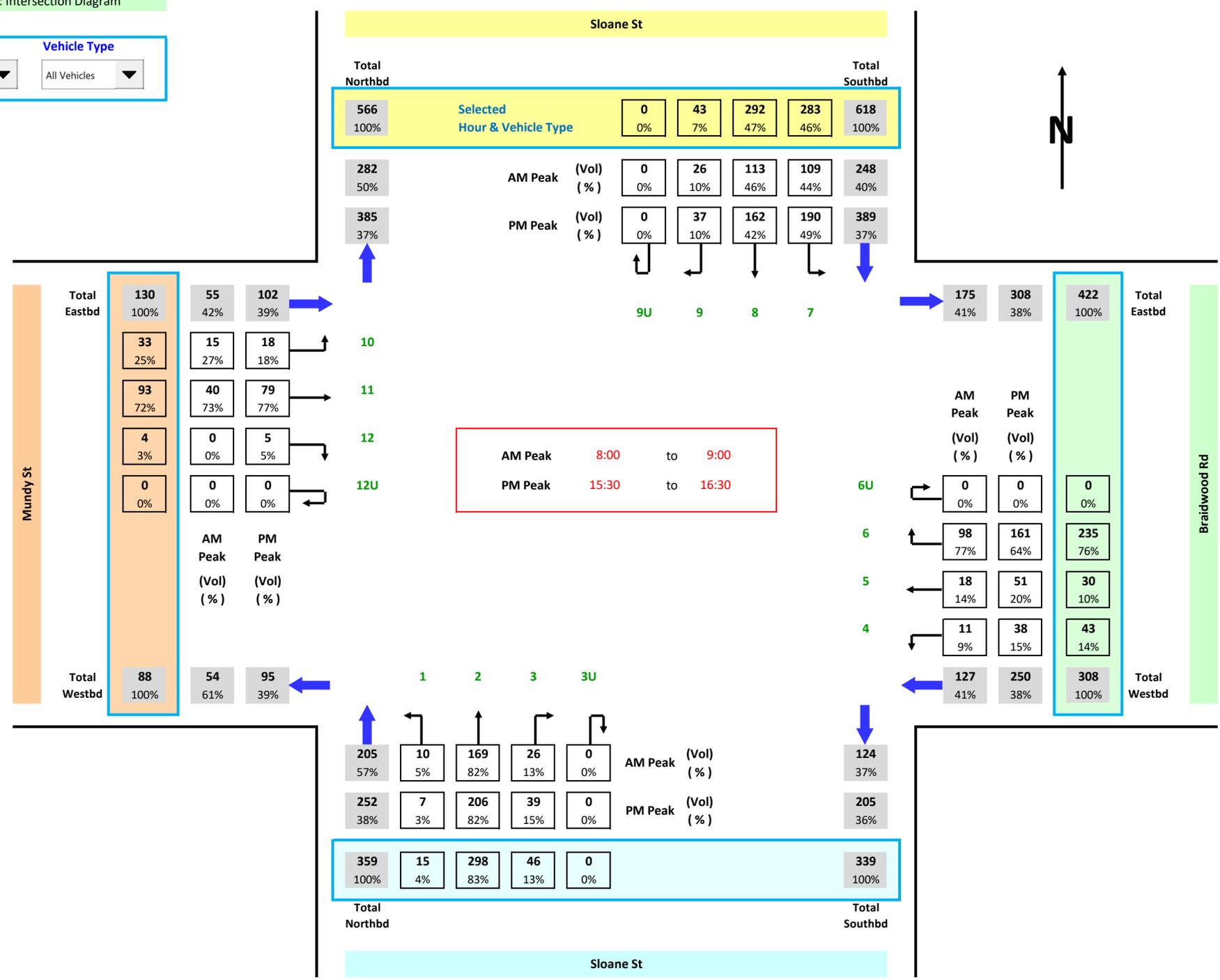
Approach	Sloane St			Braidwood Rd			Sloane St			Mundy St			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
6:00 to 7:00	48	6	54	63	10	73	147	35	182	30	0	30	339
6:15 to 7:15	52	4	56	71	16	87	136	34	170	31	1	32	345
6:30 to 7:30	59	4	63	76	18	94	148	32	180	40	1	41	378
6:45 to 7:45	65	7	72	79	22	101	164	36	200	41	2	43	416
7:00 to 8:00	90	10	100	84	24	108	165	23	188	43	2	45	441
7:15 to 8:15	118	15	133	92	25	117	169	32	201	37	6	43	494
7:30 to 8:30	160	17	177	100	27	127	187	33	220	38	6	44	568
7:45 to 8:45	184	17	201	99	20	119	187	31	218	41	6	47	585
8:00 to 9:00	184	21	205	109	18	127	217	31	248	48	7	55	635
AM Totals	322	37	359	256	52	308	529	89	618	121	9	130	1,415
15:00 to 16:00	241	24	265	186	33	219	338	26	364	86	4	90	938
15:15 to 16:15	242	20	262	223	31	254	361	22	383	88	3	91	990
15:30 to 16:30	228	24	252	224	26	250	369	20	389	98	4	102	993
15:45 to 16:45	203	19	222	225	25	250	366	19	385	83	4	87	944
16:00 to 17:00	194	18	212	216	22	238	339	22	361	94	2	96	907
16:15 to 17:15	181	18	199	193	19	212	346	21	367	89	1	90	868
16:30 to 17:30	185	10	195	212	17	229	330	21	351	83	0	83	858
16:45 to 17:45	186	13	199	216	9	225	333	21	354	85	0	85	863
17:00 to 18:00	176	8	184	205	4	209	324	14	338	74	0	74	805
PM Totals	611	50	661	607	59	666	1,001	62	1,063	254	6	260	2,650

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 2. Sloane St / Braidwood Rd / Mundy St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
 : Intersection Diagram



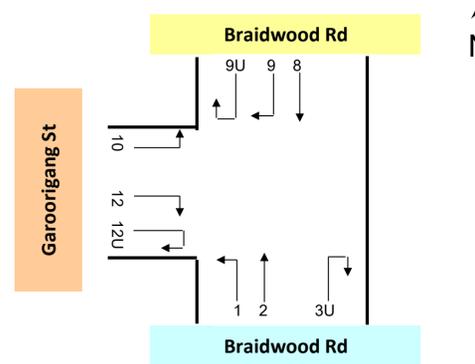
Hour Starting : AM Totals
Vehicle Type : All Vehicles



Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 3. Braidwood Rd / Garoorigang St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
: 15 mins Data

Classifications	Class 1	Class 2
	Lights	Heavies

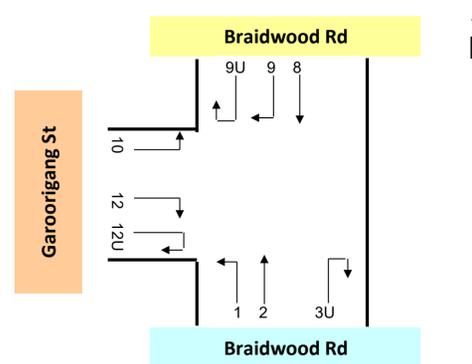


Approach	Braidwood Rd								
	Direction	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3U (U Turn)	
Time Period		Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies
6:00 to 6:15	5	1	6	4	0	4	0	0	0
6:15 to 6:30	9	0	9	8	0	8	0	0	0
6:30 to 6:45	9	0	9	9	1	10	0	0	0
6:45 to 7:00	8	0	8	10	0	10	0	0	0
7:00 to 7:15	7	0	7	6	1	7	0	0	0
7:15 to 7:30	5	0	5	6	1	7	0	0	0
7:30 to 7:45	14	0	14	13	3	16	0	0	0
7:45 to 8:00	18	0	18	15	3	18	0	0	0
8:00 to 8:15	13	0	13	10	1	11	0	0	0
8:15 to 8:30	22	0	22	14	4	18	0	0	0
8:30 to 8:45	17	0	17	15	2	17	0	0	0
8:45 to 9:00	14	2	16	12	2	14	0	0	0
AM Totals	141	3	144	122	18	140	0	0	0
15:00 to 15:15	15	1	16	11	2	13	0	0	0
15:15 to 15:30	7	0	7	13	7	20	0	0	0
15:30 to 15:45	17	0	17	18	4	22	0	0	0
15:45 to 16:00	21	0	21	10	4	14	0	0	0
16:00 to 16:15	18	0	18	21	1	22	0	0	0
16:15 to 16:30	15	1	16	16	3	19	0	0	0
16:30 to 16:45	17	0	17	16	4	20	0	0	0
16:45 to 17:00	19	0	19	13	2	15	0	0	0
17:00 to 17:15	2	0	2	11	1	12	0	0	0
17:15 to 17:30	10	0	10	13	0	13	0	0	0
17:30 to 17:45	9	0	9	16	0	16	0	0	0
17:45 to 18:00	8	0	8	12	0	12	0	0	0
PM Totals	158	2	160	170	28	198	0	0	0

Approach	Braidwood Rd									Garoorigang St								
Direction	Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 6:15	15	2	17	1	0	1	0	0	0	0	0	0	5	1	6	0	0	0
6:15 to 6:30	12	3	15	1	0	1	0	0	0	0	0	0	5	2	7	0	0	0
6:30 to 6:45	12	4	16	0	0	0	0	0	0	1	0	1	2	0	2	0	0	0
6:45 to 7:00	6	8	14	2	0	2	0	0	0	0	0	0	1	0	1	0	0	0
7:00 to 7:15	2	5	7	0	0	0	0	0	0	0	0	0	5	1	6	0	0	0
7:15 to 7:30	18	2	20	0	0	0	0	0	0	0	0	0	7	0	7	0	0	0
7:30 to 7:45	15	4	19	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0
7:45 to 8:00	12	1	13	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0
8:00 to 8:15	14	7	21	3	0	3	0	0	0	0	0	0	4	0	4	0	0	0
8:15 to 8:30	18	6	24	0	0	0	0	0	0	0	0	0	3	1	4	0	0	0
8:30 to 8:45	18	5	23	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0
8:45 to 9:00	11	4	15	2	1	3	0	0	0	3	0	3	6	0	6	0	0	0
AM Totals	153	51	204	9	1	10	0	0	0	4	0	4	54	5	59	0	0	0
15:00 to 15:15	9	1	10	3	0	3	0	0	0	1	0	1	7	0	7	0	0	0
15:15 to 15:30	15	3	18	2	0	2	0	0	0	0	0	0	13	1	14	0	0	0
15:30 to 15:45	20	1	21	1	0	1	0	0	0	0	0	0	12	0	12	0	0	0
15:45 to 16:00	25	2	27	2	0	2	0	0	0	1	0	1	17	0	17	0	0	0
16:00 to 16:15	16	1	17	4	0	4	0	0	0	2	0	2	11	0	11	0	0	0
16:15 to 16:30	20	1	21	1	0	1	0	0	0	3	0	3	9	0	9	0	0	0
16:30 to 16:45	14	2	16	2	0	2	0	0	0	2	0	2	16	0	16	0	0	0
16:45 to 17:00	20	6	26	0	0	0	0	0	0	3	0	3	8	0	8	0	0	0
17:00 to 17:15	15	3	18	0	0	0	0	0	0	0	0	0	10	0	10	0	0	0
17:15 to 17:30	20	1	21	3	0	3	0	0	0	2	0	2	14	0	14	0	0	0
17:30 to 17:45	15	1	16	2	0	2	0	0	0	2	0	2	14	0	14	0	0	0
17:45 to 18:00	23	0	23	0	0	0	0	0	0	1	0	1	12	0	12	0	0	0
PM Totals	212	22	234	20	0	20	0	0	0	17	0	17	143	1	144	0	0	0

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 3. Braidwood Rd / Garoorigang St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
 : Hourly Summary

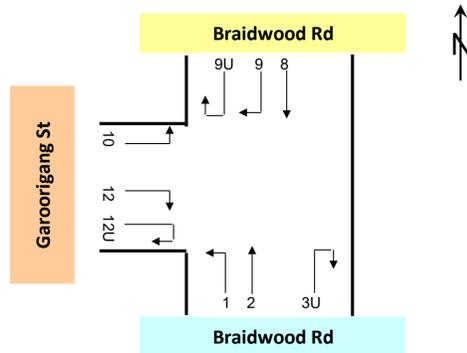


Approach	Braidwood Rd								
	Direction 1 (Left Turn)			Direction 2 (Through)			Direction 3U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	31	1	32	31	1	32	0	0	0
6:15 to 7:15	33	0	33	33	2	35	0	0	0
6:30 to 7:30	29	0	29	31	3	34	0	0	0
6:45 to 7:45	34	0	34	35	5	40	0	0	0
7:00 to 8:00	44	0	44	40	8	48	0	0	0
7:15 to 8:15	50	0	50	44	8	52	0	0	0
7:30 to 8:30	67	0	67	52	11	63	0	0	0
7:45 to 8:45	70	0	70	54	10	64	0	0	0
8:00 to 9:00	66	2	68	51	9	60	0	0	0
AM Totals	141	3	144	122	18	140	0	0	0
15:00 to 16:00	60	1	61	52	17	69	0	0	0
15:15 to 16:15	63	0	63	62	16	78	0	0	0
15:30 to 16:30	71	1	72	65	12	77	0	0	0
15:45 to 16:45	71	1	72	63	12	75	0	0	0
16:00 to 17:00	69	1	70	66	10	76	0	0	0
16:15 to 17:15	53	1	54	56	10	66	0	0	0
16:30 to 17:30	48	0	48	53	7	60	0	0	0
16:45 to 17:45	40	0	40	53	3	56	0	0	0
17:00 to 18:00	29	0	29	52	1	53	0	0	0
PM Totals	158	2	160	170	28	198	0	0	0

Approach	Braidwood Rd									Garoorigang St								
Direction	Direction 8 (Through)			Direction 9 (Right Turn)			Direction 9U (U Turn)			Direction 10 (Left Turn)			Direction 12 (Right Turn)			Direction 12U (U Turn)		
Time Period	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total
6:00 to 7:00	45	17	62	4	0	4	0	0	0	1	0	1	13	3	16	0	0	0
6:15 to 7:15	32	20	52	3	0	3	0	0	0	1	0	1	13	3	16	0	0	0
6:30 to 7:30	38	19	57	2	0	2	0	0	0	1	0	1	15	1	16	0	0	0
6:45 to 7:45	41	19	60	2	0	2	0	0	0	0	0	0	19	1	20	0	0	0
7:00 to 8:00	47	12	59	0	0	0	0	0	0	0	0	0	24	1	25	0	0	0
7:15 to 8:15	59	14	73	3	0	3	0	0	0	0	0	0	23	0	23	0	0	0
7:30 to 8:30	59	18	77	3	0	3	0	0	0	0	0	0	19	1	20	0	0	0
7:45 to 8:45	62	19	81	3	0	3	0	0	0	0	0	0	17	1	18	0	0	0
8:00 to 9:00	61	22	83	5	1	6	0	0	0	3	0	3	17	1	18	0	0	0
AM Totals	153	51	204	9	1	10	0	0	0	4	0	4	54	5	59	0	0	0
15:00 to 16:00	69	7	76	8	0	8	0	0	0	2	0	2	49	1	50	0	0	0
15:15 to 16:15	76	7	83	9	0	9	0	0	0	3	0	3	53	1	54	0	0	0
15:30 to 16:30	81	5	86	8	0	8	0	0	0	6	0	6	49	0	49	0	0	0
15:45 to 16:45	75	6	81	9	0	9	0	0	0	8	0	8	53	0	53	0	0	0
16:00 to 17:00	70	10	80	7	0	7	0	0	0	10	0	10	44	0	44	0	0	0
16:15 to 17:15	69	12	81	3	0	3	0	0	0	8	0	8	43	0	43	0	0	0
16:30 to 17:30	69	12	81	5	0	5	0	0	0	7	0	7	48	0	48	0	0	0
16:45 to 17:45	70	11	81	5	0	5	0	0	0	7	0	7	46	0	46	0	0	0
17:00 to 18:00	73	5	78	5	0	5	0	0	0	5	0	5	50	0	50	0	0	0
PM Totals	212	22	234	20	0	20	0	0	0	17	0	17	143	1	144	0	0	0

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 3. Braidwood Rd / Garoorigang St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
: Peak Hour Summary



Approach	Braidwood Rd			Braidwood Rd			Garoorigang St			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
AM 8:00 to 9:00	117	11	128	66	23	89	20	1	21	238
PM 15:30 to 16:30	136	13	149	89	5	94	55	0	55	298

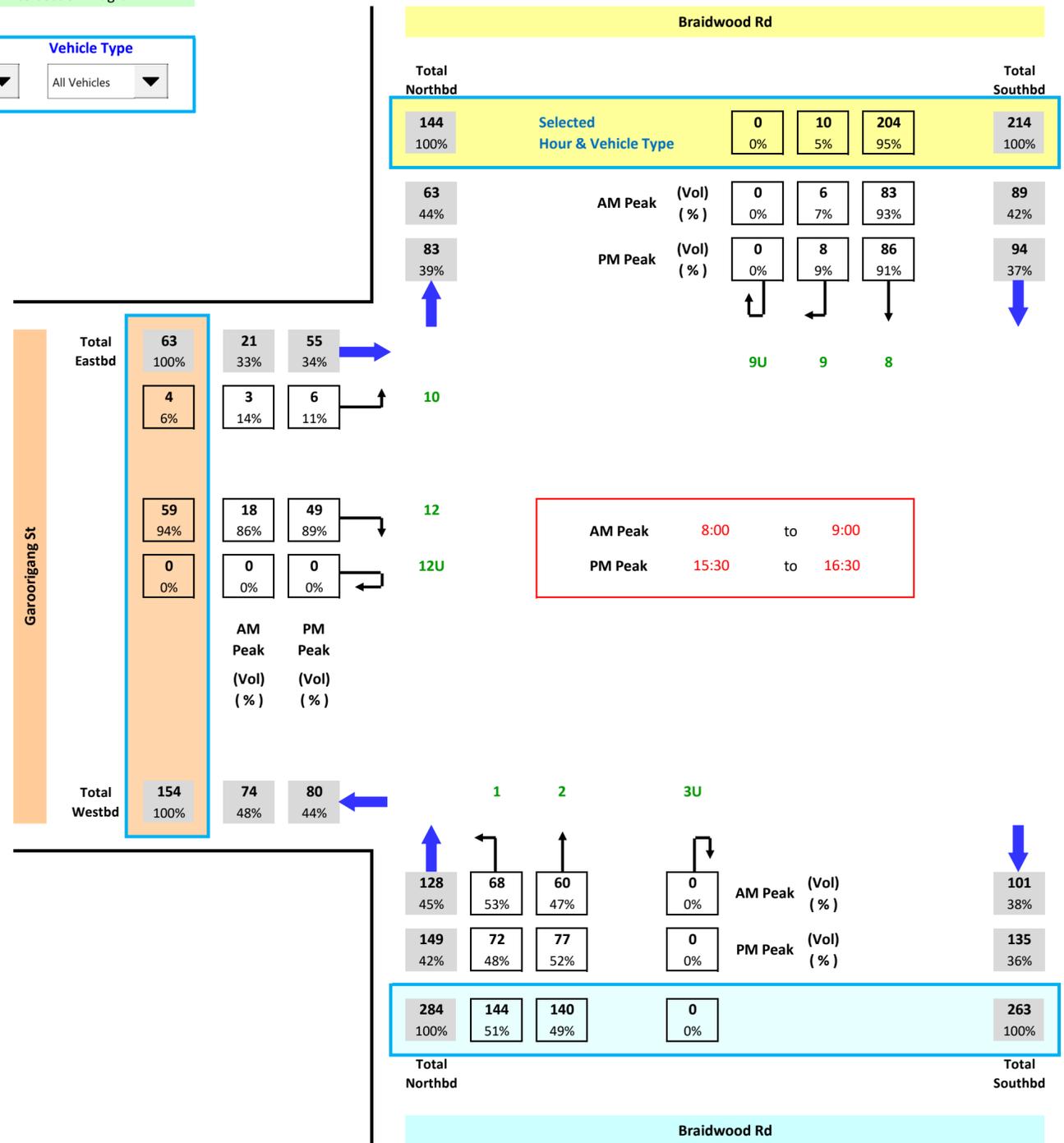
Approach	Braidwood Rd			Braidwood Rd			Garoorigang St			Grand Total
	Lights	Heavies	Total	Lights	Heavies	Total	Lights	Heavies	Total	
6:00 to 7:00	62	2	64	49	17	66	14	3	17	147
6:15 to 7:15	66	2	68	35	20	55	14	3	17	140
6:30 to 7:30	60	3	63	40	19	59	16	1	17	139
6:45 to 7:45	69	5	74	43	19	62	19	1	20	156
7:00 to 8:00	84	8	92	47	12	59	24	1	25	176
7:15 to 8:15	94	8	102	62	14	76	23	0	23	201
7:30 to 8:30	119	11	130	62	18	80	19	1	20	230
7:45 to 8:45	124	10	134	65	19	84	17	1	18	236
8:00 to 9:00	117	11	128	66	23	89	20	1	21	238
AM Totals	263	21	284	162	52	214	58	5	63	561
15:00 to 16:00	112	18	130	77	7	84	51	1	52	266
15:15 to 16:15	125	16	141	85	7	92	56	1	57	290
15:30 to 16:30	136	13	149	89	5	94	55	0	55	298
15:45 to 16:45	134	13	147	84	6	90	61	0	61	298
16:00 to 17:00	135	11	146	77	10	87	54	0	54	287
16:15 to 17:15	109	11	120	72	12	84	51	0	51	255
16:30 to 17:30	101	7	108	74	12	86	55	0	55	249
16:45 to 17:45	93	3	96	75	11	86	53	0	53	235
17:00 to 18:00	81	1	82	78	5	83	55	0	55	220
PM Totals	328	30	358	232	22	254	160	1	161	773

Job No. : AUNSW379
Client : Dean Brodie
Suburb : Goulburn Traffic Surveys
Location : 3. Braidwood Rd / Garoorigang St

Day/Date : Thu, 25th Mar 2021
Weather : Fine
Description : Classified Intersection Count
 : Intersection Diagram



Hour Starting : AM Totals
Vehicle Type : All Vehicles



7. Appendix B – SIDRA Outputs



MOVEMENT SUMMARY

Site: 101 [Hume St_Hume Hwy_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Hume St														
1	L2	46	2.0	48	2.0	0.121	3.2	LOS A	0.7	4.8	0.45	0.38	0.45	57.6
2	T1	105	2.0	111	2.0	0.121	3.4	LOS A	0.7	4.8	0.45	0.38	0.45	58.3
3	R2	11	2.0	12	2.0	0.121	10.3	LOS A	0.7	4.8	0.45	0.38	0.45	68.8
Approach		162	2.0	171	2.0	0.121	3.8	LOS A	0.7	4.8	0.45	0.38	0.45	58.7
East: Hume Hwy														
4	L2	8	2.0	8	2.0	0.064	2.7	LOS A	0.3	2.4	0.41	0.56	0.41	53.5
5	T1	1	2.0	1	2.0	0.064	3.1	LOS A	0.3	2.4	0.41	0.56	0.41	54.6
6	R2	81	2.0	85	2.0	0.064	10.2	LOS A	0.3	2.4	0.41	0.56	0.41	61.5
Approach		90	2.0	95	2.0	0.064	9.5	LOS A	0.3	2.4	0.41	0.56	0.41	60.6
North: Hume St														
7	L2	152	2.0	160	2.0	0.261	2.1	LOS A	1.6	11.5	0.14	0.44	0.14	56.8
8	T1	26	2.0	27	2.0	0.261	2.3	LOS A	1.6	11.5	0.14	0.44	0.14	57.5
9	R2	266	2.0	280	2.0	0.261	9.1	LOS A	1.6	11.5	0.14	0.44	0.14	66.7
Approach		444	2.0	467	2.0	0.261	6.3	LOS A	1.6	11.5	0.14	0.44	0.14	62.4
West: Hume Hwy														
10	L2	343	2.0	361	2.0	0.241	2.5	LOS A	1.5	10.6	0.38	0.33	0.38	58.0
11	T1	1	2.0	1	2.0	0.241	2.9	LOS A	1.5	10.6	0.38	0.33	0.38	59.5
12	R2	18	2.0	19	2.0	0.241	10.0	LOS A	1.5	10.6	0.38	0.33	0.38	69.1
Approach		362	2.0	381	2.0	0.241	2.9	LOS A	1.5	10.6	0.38	0.33	0.38	58.5
All Vehicles		1058	2.0	1114	2.0	0.261	5.0	LOS A	1.6	11.5	0.29	0.40	0.29	60.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Intersection and Approach LOS values are based on average delay for all vehicle movements.
 Roundabout Capacity Model: SIDRA Standard.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

INTERSECTION SUMMARY

Site: 101 [Braidwood_Garoorigang_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	57.0 km/h	57.0 km/h
Travel Distance (Total)	253.5 veh-km/h	304.2 pers-km/h
Travel Time (Total)	4.4 veh-h/h	5.3 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.95	
Travel Time Index	9.45	
Congestion Coefficient	1.05	
Demand Flows (Total)	251 veh/h	301 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.072	
Practical Spare Capacity	1263.0 %	
Effective Intersection Capacity	3484 veh/h	
Control Delay (Total)	0.16 veh-h/h	0.19 pers-h/h
Control Delay (Average)	2.3 sec	2.3 sec
Control Delay (Worst Lane)	6.1 sec	
Control Delay (Worst Movement)	6.1 sec	6.1 sec
Geometric Delay (Average)	2.2 sec	
Stop-Line Delay (Average)	0.1 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.1 veh	
95% Back of Queue - Distance (Worst Lane)	0.5 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	59 veh/h	71 pers/h
Effective Stop Rate	0.23	0.23
Proportion Queued	0.03	0.03
Performance Index	4.9	4.9
Cost (Total)	188.45 \$/h	188.45 \$/h
Fuel Consumption (Total)	18.4 L/h	
Carbon Dioxide (Total)	43.4 kg/h	
Hydrocarbons (Total)	0.003 kg/h	
Carbon Monoxide (Total)	0.052 kg/h	
NOx (Total)	0.043 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.0 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 38.6% 1.4% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	120,253 veh/y	144,303 pers/y
Delay	77 veh-h/y	92 pers-h/y
Effective Stops	28,210 veh/y	33,852 pers/y
Travel Distance	121,664 veh-km/y	145,997 pers-km/y
Travel Time	2,133 veh-h/y	2,559 pers-h/y
Cost	90,455 \$/y	90,455 \$/y
Fuel Consumption	8,809 L/y	
Carbon Dioxide	20,828 kg/y	
Hydrocarbons	2 kg/y	
Carbon Monoxide	25 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Garoorigang_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	57.1 km/h	57.1 km/h
Travel Distance (Total)	267.3 veh-km/h	320.8 pers-km/h
Travel Time (Total)	4.7 veh-h/h	5.6 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.95	
Travel Time Index	9.47	
Congestion Coefficient	1.05	
Demand Flows (Total)	264 veh/h	317 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.077	
Practical Spare Capacity	1166.2 %	
Effective Intersection Capacity	3414 veh/h	
Control Delay (Total)	0.16 veh-h/h	0.20 pers-h/h
Control Delay (Average)	2.2 sec	2.2 sec
Control Delay (Worst Lane)	6.1 sec	
Control Delay (Worst Movement)	6.2 sec	6.2 sec
Geometric Delay (Average)	2.1 sec	
Stop-Line Delay (Average)	0.1 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.1 veh	
95% Back of Queue - Distance (Worst Lane)	0.5 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	60 veh/h	72 pers/h
Effective Stop Rate	0.23	0.23
Proportion Queued	0.03	0.03
Performance Index	5.1	5.1
Cost (Total)	198.31 \$/h	198.31 \$/h
Fuel Consumption (Total)	19.3 L/h	
Carbon Dioxide (Total)	45.5 kg/h	
Hydrocarbons (Total)	0.004 kg/h	
Carbon Monoxide (Total)	0.055 kg/h	
NOx (Total)	0.045 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Site Model Variability Index (Iterations 3 to N): 0.0 %
 Number of Iterations: 3 (Maximum: 10)
 Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 39.3% 1.5% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	126,821 veh/y	152,185 pers/y
Delay	79 veh-h/y	94 pers-h/y
Effective Stops	28,849 veh/y	34,618 pers/y
Travel Distance	128,302 veh-km/y	153,962 pers-km/y
Travel Time	2,246 veh-h/y	2,695 pers-h/y
Cost	95,189 \$/y	95,189 \$/y
Fuel Consumption	9,246 L/y	
Carbon Dioxide	21,862 kg/y	
Hydrocarbons	2 kg/y	
Carbon Monoxide	26 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Garoorigang_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	56.6 km/h	56.6 km/h
Travel Distance (Total)	317.3 veh-km/h	380.8 pers-km/h
Travel Time (Total)	5.6 veh-h/h	6.7 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.94	
Travel Time Index	9.36	
Congestion Coefficient	1.06	
Demand Flows (Total)	314 veh/h	376 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.083	
Practical Spare Capacity	1073.7 %	
Effective Intersection Capacity	3757 veh/h	
Control Delay (Total)	0.23 veh-h/h	0.28 pers-h/h
Control Delay (Average)	2.7 sec	2.7 sec
Control Delay (Worst Lane)	6.2 sec	
Control Delay (Worst Movement)	6.3 sec	6.3 sec
Geometric Delay (Average)	2.5 sec	
Stop-Line Delay (Average)	0.2 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.2 veh	
95% Back of Queue - Distance (Worst Lane)	1.3 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	84 veh/h	101 pers/h
Effective Stop Rate	0.27	0.27
Proportion Queued	0.06	0.06
Performance Index	6.4	6.4
Cost (Total)	238.73 \$/h	238.73 \$/h
Fuel Consumption (Total)	23.5 L/h	
Carbon Dioxide (Total)	55.6 kg/h	
Hydrocarbons (Total)	0.004 kg/h	
Carbon Monoxide (Total)	0.066 kg/h	
NOx (Total)	0.056 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Site Model Variability Index (Iterations 3 to N): 0.0 %
 Number of Iterations: 3 (Maximum: 10)
 Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 40.6% 2.0% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	150,568 veh/y	180,682 pers/y
Delay	112 veh-h/y	134 pers-h/y
Effective Stops	40,431 veh/y	48,518 pers/y
Travel Distance	152,310 veh-km/y	182,772 pers-km/y
Travel Time	2,693 veh-h/y	3,232 pers-h/y
Cost	114,590 \$/y	114,590 \$/y
Fuel Consumption	11,283 L/y	
Carbon Dioxide	26,676 kg/y	
Hydrocarbons	2 kg/y	
Carbon Monoxide	32 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Garoorigang_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	56.6 km/h	56.6 km/h
Travel Distance (Total)	333.3 veh-km/h	399.9 pers-km/h
Travel Time (Total)	5.9 veh-h/h	7.1 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.94	
Travel Time Index	9.38	
Congestion Coefficient	1.06	
Demand Flows (Total)	329 veh/h	395 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.085	
Practical Spare Capacity	1050.7 %	
Effective Intersection Capacity	3869 veh/h	
Control Delay (Total)	0.24 veh-h/h	0.29 pers-h/h
Control Delay (Average)	2.6 sec	2.6 sec
Control Delay (Worst Lane)	6.3 sec	
Control Delay (Worst Movement)	6.3 sec	6.3 sec
Geometric Delay (Average)	2.4 sec	
Stop-Line Delay (Average)	0.2 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.2 veh	
95% Back of Queue - Distance (Worst Lane)	1.3 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	86 veh/h	104 pers/h
Effective Stop Rate	0.26	0.26
Proportion Queued	0.06	0.06
Performance Index	6.7	6.7
Cost (Total)	250.21 \$/h	250.21 \$/h
Fuel Consumption (Total)	24.6 L/h	
Carbon Dioxide (Total)	58.1 kg/h	
Hydrocarbons (Total)	0.005 kg/h	
Carbon Monoxide (Total)	0.069 kg/h	
NOx (Total)	0.059 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Site Model Variability Index (Iterations 3 to N): 0.0 %
 Number of Iterations: 3 (Maximum: 10)
 Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 41.3% 1.8% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	158,147 veh/y	189,777 pers/y
Delay	115 veh-h/y	138 pers-h/y
Effective Stops	41,451 veh/y	49,741 pers/y
Travel Distance	159,968 veh-km/y	191,961 pers-km/y
Travel Time	2,825 veh-h/y	3,390 pers-h/y
Cost	120,102 \$/y	120,102 \$/y
Fuel Consumption	11,797 L/y	
Carbon Dioxide	27,891 kg/y	
Hydrocarbons	2 kg/y	
Carbon Monoxide	33 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Sloane_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	55.5 km/h	55.5 km/h
Travel Distance (Total)	679.6 veh-km/h	815.5 pers-km/h
Travel Time (Total)	12.2 veh-h/h	14.7 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.93	
Travel Time Index	9.17	
Congestion Coefficient	1.08	
Demand Flows (Total)	669 veh/h	803 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.176	
Practical Spare Capacity	355.6 %	
Effective Intersection Capacity	3813 veh/h	
Control Delay (Total)	0.70 veh-h/h	0.84 pers-h/h
Control Delay (Average)	3.8 sec	3.8 sec
Control Delay (Worst Lane)	8.3 sec	
Control Delay (Worst Movement)	8.6 sec	8.6 sec
Geometric Delay (Average)	3.0 sec	
Stop-Line Delay (Average)	0.8 sec	
Idling Time (Average)	0.2 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.6 veh	
95% Back of Queue - Distance (Worst Lane)	4.5 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	229 veh/h	275 pers/h
Effective Stop Rate	0.34	0.34
Proportion Queued	0.20	0.20
Performance Index	15.9	15.9
Cost (Total)	524.34 \$/h	524.34 \$/h
Fuel Consumption (Total)	52.9 L/h	
Carbon Dioxide (Total)	125.0 kg/h	
Hydrocarbons (Total)	0.010 kg/h	
Carbon Monoxide (Total)	0.147 kg/h	
NOx (Total)	0.131 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.0 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 62.3% 4.8% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	321,347 veh/y	385,617 pers/y
Delay	338 veh-h/y	406 pers-h/y
Effective Stops	110,006 veh/y	132,007 pers/y
Travel Distance	326,211 veh-km/y	391,454 pers-km/y
Travel Time	5,875 veh-h/y	7,050 pers-h/y
Cost	251,685 \$/y	251,685 \$/y
Fuel Consumption	25,374 L/y	
Carbon Dioxide	59,980 kg/y	
Hydrocarbons	5 kg/y	
Carbon Monoxide	71 kg/y	
NOx	63 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Sloane_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	55.4 km/h	55.4 km/h
Travel Distance (Total)	692.4 veh-km/h	830.9 pers-km/h
Travel Time (Total)	12.5 veh-h/h	15.0 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.92	
Travel Time Index	9.15	
Congestion Coefficient	1.08	
Demand Flows (Total)	682 veh/h	819 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.192	
Practical Spare Capacity	317.7 %	
Effective Intersection Capacity	3562 veh/h	
Control Delay (Total)	0.73 veh-h/h	0.88 pers-h/h
Control Delay (Average)	3.9 sec	3.9 sec
Control Delay (Worst Lane)	8.4 sec	
Control Delay (Worst Movement)	8.7 sec	8.7 sec
Geometric Delay (Average)	3.0 sec	
Stop-Line Delay (Average)	0.8 sec	
Idling Time (Average)	0.2 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	0.7 veh	
95% Back of Queue - Distance (Worst Lane)	4.9 m	
Ave. Queue Storage Ratio (Worst Lane)	0.00	
Total Effective Stops	239 veh/h	287 pers/h
Effective Stop Rate	0.35	0.35
Proportion Queued	0.21	0.21
Performance Index	16.3	16.3
Cost (Total)	535.27 \$/h	535.27 \$/h
Fuel Consumption (Total)	54.0 L/h	
Carbon Dioxide (Total)	127.7 kg/h	
Hydrocarbons (Total)	0.010 kg/h	
Carbon Monoxide (Total)	0.150 kg/h	
NOx (Total)	0.134 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.0 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 62.4% 4.8% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	327,411 veh/y	392,893 pers/y
Delay	353 veh-h/y	423 pers-h/y
Effective Stops	114,748 veh/y	137,697 pers/y
Travel Distance	332,365 veh-km/y	398,838 pers-km/y
Travel Time	5,996 veh-h/y	7,195 pers-h/y
Cost	256,929 \$/y	256,929 \$/y
Fuel Consumption	25,931 L/y	
Carbon Dioxide	61,295 kg/y	
Hydrocarbons	5 kg/y	
Carbon Monoxide	72 kg/y	
NOx	65 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Sloane_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	54.3 km/h	54.3 km/h
Travel Distance (Total)	1061.5 veh-km/h	1273.8 pers-km/h
Travel Time (Total)	19.5 veh-h/h	23.5 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.90	
Travel Time Index	8.94	
Congestion Coefficient	1.10	
Demand Flows (Total)	1045 veh/h	1254 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.398	
Practical Spare Capacity	100.8 %	
Effective Intersection Capacity	2623 veh/h	
Control Delay (Total)	1.50 veh-h/h	1.79 pers-h/h
Control Delay (Average)	5.2 sec	5.2 sec
Control Delay (Worst Lane)	11.6 sec	
Control Delay (Worst Movement)	12.4 sec	12.4 sec
Geometric Delay (Average)	3.4 sec	
Stop-Line Delay (Average)	1.8 sec	
Idling Time (Average)	0.6 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	1.9 veh	
95% Back of Queue - Distance (Worst Lane)	13.4 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	455 veh/h	546 pers/h
Effective Stop Rate	0.44	0.44
Proportion Queued	0.29	0.29
Performance Index	27.7	27.7
Cost (Total)	839.51 \$/h	839.51 \$/h
Fuel Consumption (Total)	85.4 L/h	
Carbon Dioxide (Total)	201.7 kg/h	
Hydrocarbons (Total)	0.016 kg/h	
Carbon Monoxide (Total)	0.236 kg/h	
NOx (Total)	0.216 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.0 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 69.8% 5.6% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	501,726 veh/y	602,072 pers/y
Delay	718 veh-h/y	861 pers-h/y
Effective Stops	218,283 veh/y	261,939 pers/y
Travel Distance	509,516 veh-km/y	611,419 pers-km/y
Travel Time	9,384 veh-h/y	11,260 pers-h/y
Cost	402,965 \$/y	402,965 \$/y
Fuel Consumption	40,969 L/y	
Carbon Dioxide	96,833 kg/y	
Hydrocarbons	8 kg/y	
Carbon Monoxide	113 kg/y	
NOx	104 kg/y	

INTERSECTION SUMMARY

Site: 101 [Braidwood_Sloane_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	54.3 km/h	54.3 km/h
Travel Distance (Total)	1073.3 veh-km/h	1288.0 pers-km/h
Travel Time (Total)	19.8 veh-h/h	23.7 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	0.90	
Travel Time Index	8.94	
Congestion Coefficient	1.11	
Demand Flows (Total)	1057 veh/h	1268 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.405	
Practical Spare Capacity	97.6 %	
Effective Intersection Capacity	2611 veh/h	
Control Delay (Total)	1.53 veh-h/h	1.83 pers-h/h
Control Delay (Average)	5.2 sec	5.2 sec
Control Delay (Worst Lane)	11.7 sec	
Control Delay (Worst Movement)	12.5 sec	12.5 sec
Geometric Delay (Average)	3.4 sec	
Stop-Line Delay (Average)	1.8 sec	
Idling Time (Average)	0.6 sec	
Intersection Level of Service (LOS)	NA	
95% Back of Queue - Vehicles (Worst Lane)	1.9 veh	
95% Back of Queue - Distance (Worst Lane)	13.7 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	463 veh/h	556 pers/h
Effective Stop Rate	0.44	0.44
Proportion Queued	0.29	0.29
Performance Index	28.0	28.0
Cost (Total)	849.64 \$/h	849.64 \$/h
Fuel Consumption (Total)	86.4 L/h	
Carbon Dioxide (Total)	204.3 kg/h	
Hydrocarbons (Total)	0.017 kg/h	
Carbon Monoxide (Total)	0.239 kg/h	
NOx (Total)	0.219 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 NA: Intersection LOS for Vehicles is Not Applicable for two-way sign control since the average intersection delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Site Model Variability Index (Iterations 3 to N): 0.0 %
 Number of Iterations: 3 (Maximum: 10)
 Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 70.0% 5.6% 0.0%

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	507,284 veh/y	608,741 pers/y
Delay	733 veh-h/y	879 pers-h/y
Effective Stops	222,218 veh/y	266,661 pers/y
Travel Distance	515,194 veh-km/y	618,233 pers-km/y
Travel Time	9,496 veh-h/y	11,395 pers-h/y
Cost	407,827 \$/y	407,827 \$/y
Fuel Consumption	41,482 L/y	
Carbon Dioxide	98,043 kg/y	
Hydrocarbons	8 kg/y	
Carbon Monoxide	115 kg/y	
NOx	105 kg/y	

INTERSECTION SUMMARY

 Site: 101 [Hume St_Hume Hwy_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	61.1 km/h	61.1 km/h
Travel Distance (Total)	1003.7 veh-km/h	1204.4 pers-km/h
Travel Time (Total)	16.4 veh-h/h	19.7 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	1.00 ¹	
Travel Time Index	10.20	
Congestion Coefficient	0.98	
Demand Flows (Total)	881 veh/h	1057 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.228	
Practical Spare Capacity	272.1 %	
Effective Intersection Capacity	3857 veh/h	
Control Delay (Total)	1.37 veh-h/h	1.64 pers-h/h
Control Delay (Average)	5.6 sec	5.6 sec
Control Delay (Worst Lane)	9.5 sec	
Control Delay (Worst Movement)	10.3 sec	10.3 sec
Geometric Delay (Average)	5.2 sec	
Stop-Line Delay (Average)	0.4 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	LOS A	
95% Back of Queue - Vehicles (Worst Lane)	1.4 veh	
95% Back of Queue - Distance (Worst Lane)	9.6 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	364 veh/h	437 pers/h
Effective Stop Rate	0.41	0.41
Proportion Queued	0.23	0.23
Performance Index	27.4	27.4
Cost (Total)	726.06 \$/h	726.06 \$/h
Fuel Consumption (Total)	80.8 L/h	
Carbon Dioxide (Total)	190.8 kg/h	
Hydrocarbons (Total)	0.015 kg/h	
Carbon Monoxide (Total)	0.209 kg/h	
NOx (Total)	0.201 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Intersection LOS value for Vehicles is based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.5 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 100.0% 86.0% 0.5%

¹ Calculated Average Travel Speed exceeds the specified Desired Speed.

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	422,905 veh/y	507,486 pers/y
Delay	657 veh-h/y	789 pers-h/y
Effective Stops	174,887 veh/y	209,864 pers/y
Travel Distance	481,757 veh-km/y	578,108 pers-km/y
Travel Time	7,889 veh-h/y	9,466 pers-h/y
Cost	348,507 \$/y	348,507 \$/y
Fuel Consumption	38,771 L/y	
Carbon Dioxide	91,604 kg/y	
Hydrocarbons	7 kg/y	
Carbon Monoxide	100 kg/y	

INTERSECTION SUMMARY

 Site: 101 [Hume St_Hume Hwy_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	61.1 km/h	61.1 km/h
Travel Distance (Total)	1008.5 veh-km/h	1210.2 pers-km/h
Travel Time (Total)	16.5 veh-h/h	19.8 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	1.00 ¹	
Travel Time Index	10.19	
Congestion Coefficient	0.98	
Demand Flows (Total)	885 veh/h	1062 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.229	
Practical Spare Capacity	271.0 %	
Effective Intersection Capacity	3864 veh/h	
Control Delay (Total)	1.38 veh-h/h	1.65 pers-h/h
Control Delay (Average)	5.6 sec	5.6 sec
Control Delay (Worst Lane)	9.5 sec	
Control Delay (Worst Movement)	10.3 sec	10.3 sec
Geometric Delay (Average)	5.2 sec	
Stop-Line Delay (Average)	0.4 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	LOS A	
95% Back of Queue - Vehicles (Worst Lane)	1.4 veh	
95% Back of Queue - Distance (Worst Lane)	9.6 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	367 veh/h	440 pers/h
Effective Stop Rate	0.41	0.41
Proportion Queued	0.23	0.23
Performance Index	27.6	27.6
Cost (Total)	730.11 \$/h	730.11 \$/h
Fuel Consumption (Total)	81.3 L/h	
Carbon Dioxide (Total)	192.2 kg/h	
Hydrocarbons (Total)	0.015 kg/h	
Carbon Monoxide (Total)	0.210 kg/h	
NOx (Total)	0.202 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Intersection LOS value for Vehicles is based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.5 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 100.0% 86.0% 0.5%

¹ Calculated Average Travel Speed exceeds the specified Desired Speed.

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	424,926 veh/y	509,912 pers/y
Delay	662 veh-h/y	794 pers-h/y
Effective Stops	176,052 veh/y	211,263 pers/y
Travel Distance	484,078 veh-km/y	580,894 pers-km/y
Travel Time	7,929 veh-h/y	9,515 pers-h/y
Cost	350,455 \$/y	350,455 \$/y
Fuel Consumption	39,040 L/y	
Carbon Dioxide	92,239 kg/y	
Hydrocarbons	7 kg/y	

INTERSECTION SUMMARY

 Site: 101 [Hume St_Hume Hwy_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	60.4 km/h	60.4 km/h
Travel Distance (Total)	1243.4 veh-km/h	1492.1 pers-km/h
Travel Time (Total)	20.6 veh-h/h	24.7 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	1.00 ¹	
Travel Time Index	10.07	
Congestion Coefficient	0.99	
Demand Flows (Total)	1111 veh/h	1333 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.260	
Practical Spare Capacity	226.3 %	
Effective Intersection Capacity	4264 veh/h	
Control Delay (Total)	1.55 veh-h/h	1.85 pers-h/h
Control Delay (Average)	5.0 sec	5.0 sec
Control Delay (Worst Lane)	9.6 sec	
Control Delay (Worst Movement)	10.3 sec	10.3 sec
Geometric Delay (Average)	4.4 sec	
Stop-Line Delay (Average)	0.6 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	LOS A	
95% Back of Queue - Vehicles (Worst Lane)	1.6 veh	
95% Back of Queue - Distance (Worst Lane)	11.5 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	446 veh/h	535 pers/h
Effective Stop Rate	0.40	0.40
Proportion Queued	0.29	0.29
Performance Index	34.6	34.6
Cost (Total)	907.11 \$/h	907.11 \$/h
Fuel Consumption (Total)	100.1 L/h	
Carbon Dioxide (Total)	236.5 kg/h	
Hydrocarbons (Total)	0.019 kg/h	
Carbon Monoxide (Total)	0.262 kg/h	
NOx (Total)	0.251 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Intersection LOS value for Vehicles is based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.7 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 100.0% 85.8% 0.7%

¹ Calculated Average Travel Speed exceeds the specified Desired Speed.

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	533,053 veh/y	639,663 pers/y
Delay	742 veh-h/y	890 pers-h/y
Effective Stops	214,105 veh/y	256,926 pers/y
Travel Distance	596,846 veh-km/y	716,215 pers-km/y
Travel Time	9,883 veh-h/y	11,860 pers-h/y
Cost	435,412 \$/y	435,412 \$/y
Fuel Consumption	48,036 L/y	
Carbon Dioxide	113,499 kg/y	
Hydrocarbons	9 kg/y	
Carbon Monoxide	126 kg/y	

INTERSECTION SUMMARY

 Site: 101 [Hume St_Hume Hwy_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Intersection Performance - Hourly Values		
Performance Measure	Vehicles	Persons
Travel Speed (Average)	60.4 km/h	60.4 km/h
Travel Distance (Total)	1246.9 veh-km/h	1496.3 pers-km/h
Travel Time (Total)	20.7 veh-h/h	24.8 pers-h/h
Desired Speed (Program)	60.0 km/h	
Speed Efficiency	1.00 ¹	
Travel Time Index	10.07	
Congestion Coefficient	0.99	
Demand Flows (Total)	1114 veh/h	1336 pers/h
Percent Heavy Vehicles (Demand)	2.0 %	
Degree of Saturation	0.261	
Practical Spare Capacity	225.9 %	
Effective Intersection Capacity	4270 veh/h	
Control Delay (Total)	1.55 veh-h/h	1.86 pers-h/h
Control Delay (Average)	5.0 sec	5.0 sec
Control Delay (Worst Lane)	9.5 sec	
Control Delay (Worst Movement)	10.3 sec	10.3 sec
Geometric Delay (Average)	4.4 sec	
Stop-Line Delay (Average)	0.6 sec	
Idling Time (Average)	0.0 sec	
Intersection Level of Service (LOS)	LOS A	
95% Back of Queue - Vehicles (Worst Lane)	1.6 veh	
95% Back of Queue - Distance (Worst Lane)	11.5 m	
Ave. Queue Storage Ratio (Worst Lane)	0.01	
Total Effective Stops	448 veh/h	538 pers/h
Effective Stop Rate	0.40	0.40
Proportion Queued	0.29	0.29
Performance Index	34.7	34.7
Cost (Total)	909.94 \$/h	909.94 \$/h
Fuel Consumption (Total)	100.4 L/h	
Carbon Dioxide (Total)	237.3 kg/h	
Hydrocarbons (Total)	0.019 kg/h	
Carbon Monoxide (Total)	0.263 kg/h	
NOx (Total)	0.252 kg/h	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Intersection LOS value for Vehicles is based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Geometric Delay is included).

Queue Model: SIDRA Standard.

Site Model Variability Index (Iterations 3 to N): 0.7 %

Number of Iterations: 3 (Maximum: 10)

Largest change in Lane Degrees of Saturation for the last three Flow-Capacity Iterations: 100.0% 85.8% 0.7%

¹ Calculated Average Travel Speed exceeds the specified Desired Speed.

Intersection Performance - Annual Values		
Performance Measure	Vehicles	Persons
Demand Flows (Total)	534,569 veh/y	641,482 pers/y
Delay	745 veh-h/y	894 pers-h/y
Effective Stops	215,016 veh/y	258,019 pers/y
Travel Distance	598,530 veh-km/y	718,236 pers-km/y
Travel Time	9,912 veh-h/y	11,895 pers-h/y
Cost	436,769 \$/y	436,769 \$/y
Fuel Consumption	48,209 L/y	
Carbon Dioxide	113,908 kg/y	
Hydrocarbons	9 kg/y	

MOVEMENT SUMMARY

Site: 101 [Braidwood_Garoorigang_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Braidwood Rd														
1	L2	68	2.0	72	2.0	0.072	5.6	LOS A	0.0	0.0	0.00	0.31	0.00	55.6
2	T1	60	2.0	63	2.0	0.072	0.0	LOS A	0.0	0.0	0.00	0.31	0.00	57.2
Approach		128	2.0	135	2.0	0.072	3.0	NA	0.0	0.0	0.00	0.31	0.00	56.4
North: Braidwood Rd														
8	T1	83	2.0	87	2.0	0.050	0.0	LOS A	0.0	0.3	0.04	0.04	0.04	59.5
9	R2	6	2.0	6	2.0	0.050	5.9	LOS A	0.0	0.3	0.04	0.04	0.04	57.1
Approach		89	2.0	94	2.0	0.050	0.4	NA	0.0	0.3	0.04	0.04	0.04	59.3
West: Garoorigang St														
10	L2	3	2.0	3	2.0	0.020	5.7	LOS A	0.1	0.5	0.21	0.57	0.21	53.0
12	R2	18	2.0	19	2.0	0.020	6.1	LOS A	0.1	0.5	0.21	0.57	0.21	52.5
Approach		21	2.0	22	2.0	0.020	6.1	LOS A	0.1	0.5	0.21	0.57	0.21	52.5
All Vehicles		238	2.0	251	2.0	0.072	2.3	NA	0.1	0.5	0.03	0.23	0.03	57.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Garoorigang_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Braidwood Rd														
1	L2	69	2.0	73	2.0	0.077	5.6	LOS A	0.0	0.0	0.00	0.30	0.00	55.8
2	T1	69	2.0	73	2.0	0.077	0.0	LOS A	0.0	0.0	0.00	0.30	0.00	57.4
Approach		138	2.0	145	2.0	0.077	2.8	NA	0.0	0.0	0.00	0.30	0.00	56.5
North: Braidwood Rd														
8	T1	85	2.0	89	2.0	0.051	0.0	LOS A	0.0	0.3	0.04	0.04	0.04	59.5
9	R2	6	2.0	6	2.0	0.051	5.9	LOS A	0.0	0.3	0.04	0.04	0.04	57.1
Approach		91	2.0	96	2.0	0.051	0.4	NA	0.0	0.3	0.04	0.04	0.04	59.3
West: Garoorigang St														
10	L2	3	2.0	3	2.0	0.021	5.8	LOS A	0.1	0.5	0.22	0.58	0.22	52.9
12	R2	19	2.0	20	2.0	0.021	6.2	LOS A	0.1	0.5	0.22	0.58	0.22	52.4
Approach		22	2.0	23	2.0	0.021	6.1	LOS A	0.1	0.5	0.22	0.58	0.22	52.5
All Vehicles		251	2.0	264	2.0	0.077	2.2	NA	0.1	0.5	0.03	0.23	0.03	57.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Garoorigang_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h]	[HV %]	[Total veh/h]	[HV %]				[Veh. veh]	[Dist m]				
South: Braidwood Rd														
1	L2	72	2.0	76	2.0	0.083	5.6	LOS A	0.0	0.0	0.00	0.29	0.00	55.8
2	T1	77	2.0	81	2.0	0.083	0.0	LOS A	0.0	0.0	0.00	0.29	0.00	57.4
Approach		149	2.0	157	2.0	0.083	2.7	NA	0.0	0.0	0.00	0.29	0.00	56.7
North: Braidwood Rd														
8	T1	86	2.0	91	2.0	0.053	0.1	LOS A	0.1	0.4	0.05	0.05	0.05	59.3
9	R2	8	2.0	8	2.0	0.053	6.0	LOS A	0.1	0.4	0.05	0.05	0.05	57.0
Approach		94	2.0	99	2.0	0.053	0.6	NA	0.1	0.4	0.05	0.05	0.05	59.1
West: Garoorigang St														
10	L2	6	2.0	6	2.0	0.053	5.8	LOS A	0.2	1.3	0.25	0.59	0.25	52.9
12	R2	49	2.0	52	2.0	0.053	6.3	LOS A	0.2	1.3	0.25	0.59	0.25	52.4
Approach		55	2.0	58	2.0	0.053	6.2	LOS A	0.2	1.3	0.25	0.59	0.25	52.4
All Vehicles		298	2.0	314	2.0	0.083	2.7	NA	0.2	1.3	0.06	0.27	0.06	56.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Garoorigang_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Braidwood Rd														
1	L2	73	2.0	77	2.0	0.085	5.6	LOS A	0.0	0.0	0.00	0.28	0.00	55.9
2	T1	79	2.0	83	2.0	0.085	0.0	LOS A	0.0	0.0	0.00	0.28	0.00	57.4
Approach		152	2.0	160	2.0	0.085	2.7	NA	0.0	0.0	0.00	0.28	0.00	56.7
North: Braidwood Rd														
8	T1	96	2.0	101	2.0	0.058	0.1	LOS A	0.1	0.4	0.05	0.05	0.05	59.4
9	R2	8	2.0	8	2.0	0.058	6.0	LOS A	0.1	0.4	0.05	0.05	0.05	57.1
Approach		104	2.0	109	2.0	0.058	0.5	NA	0.1	0.4	0.05	0.05	0.05	59.2
West: Garoorigang St														
10	L2	6	2.0	6	2.0	0.056	5.8	LOS A	0.2	1.3	0.26	0.60	0.26	52.9
12	R2	51	2.0	54	2.0	0.056	6.3	LOS A	0.2	1.3	0.26	0.60	0.26	52.3
Approach		57	2.0	60	2.0	0.056	6.3	LOS A	0.2	1.3	0.26	0.60	0.26	52.4
All Vehicles		313	2.0	329	2.0	0.085	2.6	NA	0.2	1.3	0.06	0.26	0.06	56.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Sloane_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h]	[HV %]	[Total veh/h]	[HV %]				[Veh. veh]	[Dist m]				
South: Sloane St														
1	L2	10	2.0	11	2.0	0.116	5.9	LOS A	0.2	1.5	0.08	0.10	0.08	57.1
2	T1	169	2.0	178	2.0	0.116	0.1	LOS A	0.2	1.5	0.08	0.10	0.08	58.7
3	R2	26	2.0	27	2.0	0.116	5.9	LOS A	0.2	1.5	0.08	0.10	0.08	56.8
Approach		205	2.0	216	2.0	0.116	1.1	NA	0.2	1.5	0.08	0.10	0.08	58.4
East: Braidwood Rd														
4	L2	11	2.0	12	2.0	0.008	6.0	LOS A	0.0	0.2	0.21	0.51	0.21	53.5
5	T1	18	2.0	19	2.0	0.176	6.5	LOS A	0.6	4.5	0.48	0.74	0.48	51.8
6	R2	98	2.0	103	2.0	0.176	8.6	LOS A	0.6	4.5	0.48	0.74	0.48	51.2
Approach		127	2.0	134	2.0	0.176	8.1	LOS A	0.6	4.5	0.46	0.72	0.46	51.5
North: Sloane St														
7	L2	109	2.0	115	2.0	0.075	5.8	LOS A	0.3	2.2	0.16	0.52	0.16	53.6
8	T1	113	2.0	119	2.0	0.081	0.2	LOS A	0.2	1.3	0.13	0.11	0.13	58.5
9	R2	26	2.0	27	2.0	0.081	6.1	LOS A	0.2	1.3	0.13	0.11	0.13	56.2
Approach		248	2.0	261	2.0	0.081	3.3	LOS A	0.3	2.2	0.14	0.29	0.14	56.0
West: Mundy St														
10	L2	15	2.0	16	2.0	0.058	6.1	LOS A	0.2	1.5	0.35	0.58	0.35	53.1
11	T1	40	2.0	42	2.0	0.058	6.0	LOS A	0.2	1.5	0.35	0.58	0.35	53.4
12	R2	1	2.0	1	2.0	0.058	7.6	LOS A	0.2	1.5	0.35	0.58	0.35	52.5
Approach		56	2.0	59	2.0	0.058	6.1	LOS A	0.2	1.5	0.35	0.58	0.35	53.3
All Vehicles		636	2.0	669	2.0	0.176	3.8	NA	0.6	4.5	0.20	0.34	0.20	55.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Sloane_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h]	[HV %]	[Total veh/h]	[HV %]				[Veh. veh]	[Dist m]				
South: Sloane St														
1	L2	10	2.0	11	2.0	0.116	5.9	LOS A	0.2	1.5	0.08	0.10	0.08	57.1
2	T1	169	2.0	178	2.0	0.116	0.1	LOS A	0.2	1.5	0.08	0.10	0.08	58.7
3	R2	26	2.0	27	2.0	0.116	5.9	LOS A	0.2	1.5	0.08	0.10	0.08	56.8
Approach		205	2.0	216	2.0	0.116	1.1	NA	0.2	1.5	0.08	0.10	0.08	58.4
East: Braidwood Rd														
4	L2	11	2.0	12	2.0	0.008	6.0	LOS A	0.0	0.2	0.21	0.51	0.21	53.5
5	T1	18	2.0	19	2.0	0.192	6.6	LOS A	0.7	4.9	0.49	0.75	0.49	51.7
6	R2	108	2.0	114	2.0	0.192	8.7	LOS A	0.7	4.9	0.49	0.75	0.49	51.2
Approach		137	2.0	144	2.0	0.192	8.2	LOS A	0.7	4.9	0.47	0.73	0.47	51.4
North: Sloane St														
7	L2	111	2.0	117	2.0	0.076	5.8	LOS A	0.3	2.3	0.16	0.52	0.16	53.6
8	T1	113	2.0	119	2.0	0.081	0.2	LOS A	0.2	1.3	0.13	0.11	0.13	58.5
9	R2	26	2.0	27	2.0	0.081	6.1	LOS A	0.2	1.3	0.13	0.11	0.13	56.2
Approach		250	2.0	263	2.0	0.081	3.3	LOS A	0.3	2.3	0.14	0.29	0.14	56.0
West: Mundy St														
10	L2	15	2.0	16	2.0	0.058	6.1	LOS A	0.2	1.5	0.35	0.58	0.35	53.1
11	T1	40	2.0	42	2.0	0.058	6.0	LOS A	0.2	1.5	0.35	0.58	0.35	53.4
12	R2	1	2.0	1	2.0	0.058	7.6	LOS A	0.2	1.5	0.35	0.58	0.35	52.5
Approach		56	2.0	59	2.0	0.058	6.1	LOS A	0.2	1.5	0.35	0.58	0.35	53.3
All Vehicles		648	2.0	682	2.0	0.192	3.9	NA	0.7	4.9	0.21	0.35	0.21	55.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Sloane_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h]	[HV %]	[Total veh/h]	[HV %]				[Veh. veh]	[Dist m]				
South: Sloane St														
1	L2	7	2.0	7	2.0	0.144	6.1	LOS A	0.3	2.3	0.11	0.11	0.11	56.9
2	T1	206	2.0	217	2.0	0.144	0.1	LOS A	0.3	2.3	0.11	0.11	0.11	58.5
3	R2	39	2.0	41	2.0	0.144	6.1	LOS A	0.3	2.3	0.11	0.11	0.11	56.6
Approach		252	2.0	265	2.0	0.144	1.2	NA	0.3	2.3	0.11	0.11	0.11	58.2
East: Braidwood Rd														
4	L2	38	2.0	40	2.0	0.029	6.2	LOS A	0.1	0.8	0.26	0.53	0.26	53.3
5	T1	51	2.0	54	2.0	0.398	9.0	LOS A	1.9	13.4	0.63	0.91	0.85	49.5
6	R2	161	2.0	169	2.0	0.398	12.4	LOS A	1.9	13.4	0.63	0.91	0.85	49.0
Approach		250	2.0	263	2.0	0.398	10.7	LOS A	1.9	13.4	0.58	0.85	0.76	49.7
North: Sloane St														
7	L2	190	2.0	200	2.0	0.137	6.0	LOS A	0.6	4.2	0.24	0.53	0.24	53.4
8	T1	162	2.0	171	2.0	0.116	0.2	LOS A	0.3	2.0	0.15	0.11	0.15	58.4
9	R2	37	2.0	39	2.0	0.116	6.3	LOS A	0.3	2.0	0.15	0.11	0.15	56.2
Approach		389	2.0	409	2.0	0.137	3.6	LOS A	0.6	4.2	0.19	0.32	0.19	55.6
West: Mundy St														
10	L2	18	2.0	19	2.0	0.125	6.3	LOS A	0.5	3.3	0.43	0.66	0.43	52.5
11	T1	79	2.0	83	2.0	0.125	6.8	LOS A	0.5	3.3	0.43	0.66	0.43	52.8
12	R2	5	2.0	5	2.0	0.125	9.0	LOS A	0.5	3.3	0.43	0.66	0.43	52.0
Approach		102	2.0	107	2.0	0.125	6.9	LOS A	0.5	3.3	0.43	0.66	0.43	52.8
All Vehicles		993	2.0	1045	2.0	0.398	5.2	NA	1.9	13.4	0.29	0.44	0.34	54.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Braidwood_Sloane_PM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Give-Way (Two-Way)

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h]	[HV %]	[Total veh/h]	[HV %]				[Veh. veh]	[Dist m]				
South: Sloane St														
1	L2	7	2.0	7	2.0	0.144	6.1	LOS A	0.3	2.3	0.11	0.11	0.11	56.9
2	T1	206	2.0	217	2.0	0.144	0.1	LOS A	0.3	2.3	0.11	0.11	0.11	58.5
3	R2	39	2.0	41	2.0	0.144	6.1	LOS A	0.3	2.3	0.11	0.11	0.11	56.6
Approach		252	2.0	265	2.0	0.144	1.2	NA	0.3	2.3	0.11	0.11	0.11	58.2
East: Braidwood Rd														
4	L2	38	2.0	40	2.0	0.029	6.2	LOS A	0.1	0.8	0.26	0.53	0.26	53.3
5	T1	51	2.0	54	2.0	0.405	9.1	LOS A	1.9	13.7	0.64	0.92	0.87	49.4
6	R2	163	2.0	172	2.0	0.405	12.5	LOS A	1.9	13.7	0.64	0.92	0.87	48.9
Approach		252	2.0	265	2.0	0.405	10.9	LOS A	1.9	13.7	0.58	0.86	0.78	49.6
North: Sloane St														
7	L2	199	2.0	209	2.0	0.144	6.1	LOS A	0.6	4.5	0.24	0.53	0.24	53.4
8	T1	162	2.0	171	2.0	0.116	0.2	LOS A	0.3	2.0	0.15	0.11	0.15	58.4
9	R2	37	2.0	39	2.0	0.116	6.3	LOS A	0.3	2.0	0.15	0.11	0.15	56.2
Approach		398	2.0	419	2.0	0.144	3.7	LOS A	0.6	4.5	0.19	0.32	0.19	55.6
West: Mundy St														
10	L2	18	2.0	19	2.0	0.125	6.3	LOS A	0.5	3.3	0.43	0.66	0.43	52.5
11	T1	79	2.0	83	2.0	0.125	6.8	LOS A	0.5	3.3	0.43	0.66	0.43	52.8
12	R2	5	2.0	5	2.0	0.125	9.0	LOS A	0.5	3.3	0.43	0.66	0.43	52.0
Approach		102	2.0	107	2.0	0.125	6.9	LOS A	0.5	3.3	0.43	0.66	0.43	52.8
All Vehicles		1004	2.0	1057	2.0	0.405	5.2	NA	1.9	13.7	0.29	0.44	0.34	54.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Minor Road Approach LOS values are based on average delay for all vehicle movements.
 NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Hume St_Hume Hwy_AM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Hume St														
1	L2	43	2.0	45	2.0	0.051	3.2	LOS A	0.3	2.0	0.45	0.37	0.45	57.8
2	T1	21	2.0	22	2.0	0.051	3.4	LOS A	0.3	2.0	0.45	0.37	0.45	58.5
3	R2	4	2.0	4	2.0	0.051	10.3	LOS A	0.3	2.0	0.45	0.37	0.45	69.3
Approach		68	2.0	72	2.0	0.051	3.7	LOS A	0.3	2.0	0.45	0.37	0.45	58.6
East: Hume Hwy														
4	L2	8	2.0	8	2.0	0.068	2.8	LOS A	0.4	2.6	0.41	0.57	0.41	53.5
5	T1	1	2.0	1	2.0	0.068	3.2	LOS A	0.4	2.6	0.41	0.57	0.41	54.6
6	R2	87	2.0	92	2.0	0.068	10.2	LOS A	0.4	2.6	0.41	0.57	0.41	61.4
Approach		96	2.0	101	2.0	0.068	9.5	LOS A	0.4	2.6	0.41	0.57	0.41	60.6
North: Hume St														
7	L2	96	2.0	101	2.0	0.228	2.0	LOS A	1.4	9.6	0.11	0.47	0.11	56.3
8	T1	15	2.0	16	2.0	0.228	2.2	LOS A	1.4	9.6	0.11	0.47	0.11	57.0
9	R2	281	2.0	296	2.0	0.228	9.1	LOS A	1.4	9.6	0.11	0.47	0.11	65.9
Approach		392	2.0	413	2.0	0.228	7.1	LOS A	1.4	9.6	0.11	0.47	0.11	62.9
West: Hume Hwy														
10	L2	262	2.0	276	2.0	0.177	2.1	LOS A	1.0	7.4	0.27	0.29	0.27	58.5
11	T1	1	2.0	1	2.0	0.177	2.5	LOS A	1.0	7.4	0.27	0.29	0.27	60.0
12	R2	18	2.0	19	2.0	0.177	9.6	LOS A	1.0	7.4	0.27	0.29	0.27	69.8
Approach		281	2.0	296	2.0	0.177	2.6	LOS A	1.0	7.4	0.27	0.29	0.27	59.2
All Vehicles		837	2.0	881	2.0	0.228	5.6	LOS A	1.4	9.6	0.23	0.41	0.23	61.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Intersection and Approach LOS values are based on average delay for all vehicle movements.
 Roundabout Capacity Model: SIDRA Standard.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Hume St_Hume Hwy_AM_Fut (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Hume St														
1	L2	44	2.0	46	2.0	0.054	3.2	LOS A	0.3	2.0	0.45	0.38	0.45	57.7
2	T1	21	2.0	22	2.0	0.054	3.4	LOS A	0.3	2.0	0.45	0.38	0.45	58.4
3	R2	6	2.0	6	2.0	0.054	10.3	LOS A	0.3	2.0	0.45	0.38	0.45	69.0
Approach		71	2.0	75	2.0	0.054	3.8	LOS A	0.3	2.0	0.45	0.38	0.45	58.7
East: Hume Hwy														
4	L2	9	2.0	9	2.0	0.069	2.8	LOS A	0.4	2.6	0.41	0.57	0.41	53.6
5	T1	1	2.0	1	2.0	0.069	3.2	LOS A	0.4	2.6	0.41	0.57	0.41	54.6
6	R2	87	2.0	92	2.0	0.069	10.2	LOS A	0.4	2.6	0.41	0.57	0.41	61.5
Approach		97	2.0	102	2.0	0.069	9.5	LOS A	0.4	2.6	0.41	0.57	0.41	60.6
North: Hume St														
7	L2	96	2.0	101	2.0	0.229	2.0	LOS A	1.4	9.6	0.12	0.47	0.12	56.3
8	T1	15	2.0	16	2.0	0.229	2.2	LOS A	1.4	9.6	0.12	0.47	0.12	57.0
9	R2	281	2.0	296	2.0	0.229	9.1	LOS A	1.4	9.6	0.12	0.47	0.12	65.9
Approach		392	2.0	413	2.0	0.229	7.1	LOS A	1.4	9.6	0.12	0.47	0.12	62.9
West: Hume Hwy														
10	L2	262	2.0	276	2.0	0.177	2.1	LOS A	1.0	7.4	0.28	0.30	0.28	58.5
11	T1	1	2.0	1	2.0	0.177	2.5	LOS A	1.0	7.4	0.28	0.30	0.28	60.0
12	R2	18	2.0	19	2.0	0.177	9.6	LOS A	1.0	7.4	0.28	0.30	0.28	69.8
Approach		281	2.0	296	2.0	0.177	2.6	LOS A	1.0	7.4	0.28	0.30	0.28	59.2
All Vehicles		841	2.0	885	2.0	0.229	5.6	LOS A	1.4	9.6	0.23	0.41	0.23	61.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Intersection and Approach LOS values are based on average delay for all vehicle movements.
 Roundabout Capacity Model: SIDRA Standard.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

MOVEMENT SUMMARY

Site: 101 [Hume St_Hume Hwy_PM_Ex (Site Folder: General)]

New Site
 Site Category: (None)
 Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] m				
South: Hume St														
1	L2	46	2.0	48	2.0	0.120	3.2	LOS A	0.7	4.7	0.45	0.37	0.45	57.6
2	T1	105	2.0	111	2.0	0.120	3.4	LOS A	0.7	4.7	0.45	0.37	0.45	58.3
3	R2	10	2.0	11	2.0	0.120	10.3	LOS A	0.7	4.7	0.45	0.37	0.45	68.9
Approach		161	2.0	169	2.0	0.120	3.8	LOS A	0.7	4.7	0.45	0.37	0.45	58.7
East: Hume Hwy														
4	L2	6	2.0	6	2.0	0.062	2.7	LOS A	0.3	2.4	0.41	0.57	0.41	53.4
5	T1	1	2.0	1	2.0	0.062	3.1	LOS A	0.3	2.4	0.41	0.57	0.41	54.5
6	R2	81	2.0	85	2.0	0.062	10.2	LOS A	0.3	2.4	0.41	0.57	0.41	61.3
Approach		88	2.0	93	2.0	0.062	9.6	LOS A	0.3	2.4	0.41	0.57	0.41	60.6
North: Hume St														
7	L2	152	2.0	160	2.0	0.260	2.1	LOS A	1.6	11.5	0.14	0.44	0.14	56.8
8	T1	26	2.0	27	2.0	0.260	2.3	LOS A	1.6	11.5	0.14	0.44	0.14	57.5
9	R2	266	2.0	280	2.0	0.260	9.1	LOS A	1.6	11.5	0.14	0.44	0.14	66.7
Approach		444	2.0	467	2.0	0.260	6.3	LOS A	1.6	11.5	0.14	0.44	0.14	62.4
West: Hume Hwy														
10	L2	343	2.0	361	2.0	0.241	2.5	LOS A	1.5	10.6	0.38	0.33	0.38	58.1
11	T1	1	2.0	1	2.0	0.241	2.9	LOS A	1.5	10.6	0.38	0.33	0.38	59.5
12	R2	18	2.0	19	2.0	0.241	10.0	LOS A	1.5	10.6	0.38	0.33	0.38	69.1
Approach		362	2.0	381	2.0	0.241	2.9	LOS A	1.5	10.6	0.38	0.33	0.38	58.5
All Vehicles		1055	2.0	1111	2.0	0.260	5.0	LOS A	1.6	11.5	0.29	0.40	0.29	60.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab).
 Vehicle movement LOS values are based on average delay per movement.
 Intersection and Approach LOS values are based on average delay for all vehicle movements.
 Roundabout Capacity Model: SIDRA Standard.
 Delay Model: SIDRA Standard (Geometric Delay is included).
 Queue Model: SIDRA Standard.
 Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).
 HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

8. Appendix C - Plans of Proposed Development





PROJECT TITLE: LAND REZONING APPLICATION	
DRAWING TITLE: CONCEPTUAL SUBDIVISION AND LOT PLAN	
TITLE PARTICULARS: LOTS 61 - 64, & 71 - 77 DP976708 and LOT 60 DP1090981	
STREET ADDRESS: 2 BRISBANE GROVE ROAD BRISBANE GROVE, NSW, 2580	
DRAWING DATE: Oct. 2021	SHEET NUMBER: 1 of 1
REFERENCE NUMBER: 0030321	DRAWN BY: PJ
DRAWING SCALE: 1:1,500	AT SHEET SIZE: A1
DRAWING REFERENCE NUMBER: 0030321-01B	
AMENDMENT No. / DATE A 19/10/2021	DRAWING REFERENCE PRELIMINARY PLAN - DRAFT ONLY
 P.O. Box 639 Goulburn, NSW, 2580 E: sowdes@sowdes.com M: 0428 869 404	

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LINE TYPE AND SYMBOL LEGEND

- OPTICAL FIBRE CABLE - APPROXIMATE LOCATION
TEL TEL TEL
- OVERHEAD POWER TRANSMISSION LINES
E-OH E-OH E-OH E-OH
- 80 METRE SETBACK FROM GRAZING LAND - GMC DCP 55.9.1.1
- 50 METRE BOUNDARY SETBACK FOR BUSH FIRE PROTECTION
- NOMINATED DWELLING ENVELOPE - 600m²

- EFFLUENT DISPOSAL AREA - 100m²

- NEW FARM DAMS - VARIABLE SIZES