

NSW Roads and Maritime Services

Report for High Density Residential Trip Generation Surveys Data Report

September 2012

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Appendix A – Questionnaire Summary Sheets

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1. Introduction

GHD has been commissioned by NSW RMS to undertake surveys of high density residential developments to determine the trip generation associated with these developments. This information will be used to update the *RTA Guide to Traffic Generating Developments (2002)*, which is currently used as the guide to assessing the traffic generation and traffic impacts of new developments.

GHD has undertaken surveys of 10 high density developments around Sydney and NSW, to determine the traffic generation of these sites during the weekday and weekends. The following data is summarised in this report:

- Sites surveyed and their primary characteristics, including location, number of units, parking provision and characteristics of surrounding land use and transport infrastructure;
- Calculation of the "accessibility score" for each site;
- Weekday and weekend statistics for vehicle and person trip generation; and
- Automatic Traffic Counts (ATC) over one week for the primary road adjacent to each site.

Summaries of on-site interview and letterbox surveys are included in Appendix A and New Zealand Transport Database Site Survey Summary Sheets are included in Appendix B.

2. Survey Site Details

A total of ten high density residential developments were surveyed as part of this work. A list of the surveyed sites is shown below in Table 1.

Table 1 Summary of Survey Site Locations

Site ID	Site Address
1	13 Herbert Street, St Leonards
2	1 Cambridge Lane, Chatswood
3	8-12 Waratah Street, Cronulla
4	2-8 Ashton Street, Rockdale
5	26-30 Hassall Street, Parramatta
6	10 Wentworth Drive, Liberty Grove
7	2 Everton Road, Strathfield
8	316 Charlestown Road, Charlestown
9	3-5 Corrimal Street, Wollongong
10	208 Harris Street, Pyrmont

The details of each of these sites are documented in this Section, including the following:

- Site location;
- Site characteristics;
- Accessibility score;
- Qualitative observations from questionnaires and on-site interviews of residents and visitors.

2.1 Site Locations

The majority of the high density residential sites are located within the Sydney Greater Metropolitan Area (GMA). The locations for these Sydney sites are shown below in Figure 1.

Heights Riverstone Dural Rouse Hill Terrey Hills Ingleside Asquith 16 Warriewood Homsby Llandilo Kellyville Narrabeen Wahroonga Cherrybrook Collaroy St Ives Castle Hill 15 Cromer Bella Vista Frenchs Beecroft Dee Why Forest Baulkham Hills St Marys Mount Druitt Blacktown Epping Macquarie North Rocks Lindfield Freshwater Park Minchinbury St Clair North Ryde Prospect atta ted Area Clifton Grevstanes Gardens Wetherill Drummoyne Park Guildford Auburn Abbotsbury Fairfield 4 Chester Hill ecil Hills Bonnyrigg Bondi 8 Cabramatta 54 Newtown Junction Green Valley Marrickville St Peters Campsie Randwick Bankstown Liverpool West Hoxt Mascot Moorebank Milperra. Kingsgrove Maroubra Prestons Rossmore Matraville Leppington Hurstville Chifley Glenfield 0 Ingleburn 12 Botany Bay National Park 12 Minto Sutherland llan 6 18 Military Campbelltown Engadine

Figure 1 - Sydney Survey Site Locations

Source: Google Maps, 2012

A number of high density residential developments were sought outside of the Sydney GMA, however only 2 sites were approved for surveys. These sites were:

- 316 Charlestown Road, Charlestown; and
- 3-5 Corrimal Street, Wollongong.

Both Charlestown and Wollongong are regional cities, with Charlestown located approximately 150 km north of the Sydney CBD on the Central Coast and Wollongong located approximately 80 km south of the Sydney CBD. The locations of these regional sites are shown below in Figure 2.

State Forest Newcastle Lake Yengo National Park Macquarie **♠** Wollemi 3 Gardens of Stone National Park National Park Budgewoi Ben Bullen State Forest Parr State The urndale Reserve Portland National Park Entrance Recreation Area 83 Newnes State Forest Gosford Lithgow Woy Woy Kurrajong National Park Ku-Ring-Gai Blackheath National Park 10 Warriewood Oberon Katoomba 32 Castle Hill Penrith Dee Why Crows Nest Wetherill 14 Park Sydney Vulcan ate Forest 9 Liverpool 89 (5) 8 Hurstville Kanangra-Boyd National Park Burragorang State Recreation Area Sutherland Campbelltown Royal
National Park 12 Recreation Area Picton Tahmoo 12 Nattai Thirroul National Park 60 Tasman Sea

gong

Figure 2 - Regional Survey Site Locations

2.2 Survey Methodology

To determine the trip making behaviour associated with residential developments, it was necessary to survey people movements in and out of the development over the period of a day. This count survey seeks to identify the following factors associated with trip generation from the site:

- Quantum and profile of trip generation;
- Modes of transport used by trips;
- Trip purpose;
- Trip duration;
- Parking accumulation; and
- Traffic profile of nearby roads.

To capture this data, the count survey design consisted of five components:

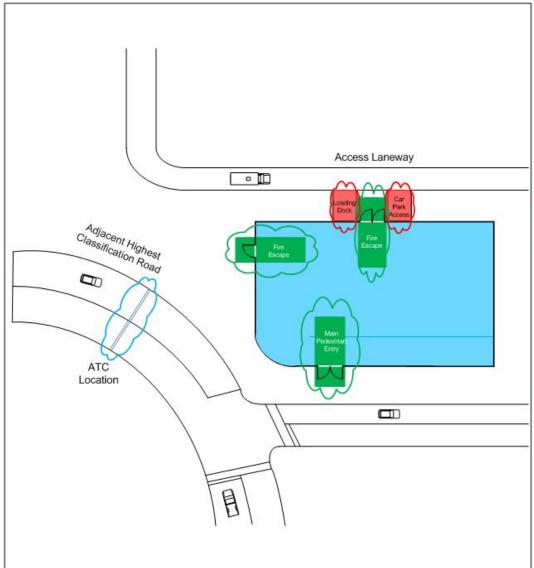
- Parking occupancy survey;
- Resident questionnaires (interview and letter box drop);
- Automatic Traffic Counts on up to two roads adjacent to the site;

- Vehicle counts at all vehicular accesses; and
- Pedestrian counts at all pedestrian accesses.

GHD commissioned Austraffic to undertake all of the above mentioned surveys.

A plan of a typical site with each of the survey elements specified above is shown in Figure 3.

Figure 3 – Trip Survey Design



General Site Data					
Survey Task	Methodology	Typical Requirement			
	An inventory of parking spaces by type (resident, visitor, business tenant, disabled, service, bicycle) An automatic traffic count covering both survey days (24 hours) on the highest-order adjacent road				
Mail-back forms	Trip making questionnaire to be dropped in mail boxes covering number and time of trips made, modes taken and trip purpose	Target response rate of 20%			

Survey Task	Methodology	Typical Requirement
Parking occupancy	Survey of parking space occupancy at the start of the survey period (6AM)	Parking occupancy survey undertaken at 5:00AMon day of survey
Accessentry and exit counts	Video or staff survey over the day (64Mto 7PM) of all vehicles entering and exiting the development induding vehicle occupancy, and numberplate	Typical site assumed to have one vehicle access only
Cyclist counts	Vehicle exit and entry to include cyclists (if cycle access is through carpark)	Typical site assumed to have cydist access through vehicle and pedestrian accesses

Survey Task	Methodology	Typical Requirement			
Accessentry and exit counts	Video or staff survey over the day (6AMto 7PM) of all pedestrians exiting and entering the development via all accesses (induding fire escapes) also including cyclists if using pedestrian accesses	Typical site assumed to have all pedestrian accesses visible from one location			
Interview questionnaire	Tri p making interviews to be conducted covering number and time of tri ps made, modes taken and tri p purpose	On site interviews to be conducted for two 2-hour shifts on a weekday and one 2-hour shift on the weekend			

Automatic traffic counts were undertaken on the highest-order road adjacent to the development. These counts were in place for the week of the survey period, covering both the weekday and weekend survey. Automatic traffic counts provide the general traffic profile on the network surrounding the development.

Automatic traffic counts were also undertaken across some driveways which sought to record an all day traffic profile of vehicles accessing the car parks. However, these automatic counts were unsuccessful due to slow driver speeds crossing the count tubes which prevented the counts from being registered.

A single-page travel survey was delivered to all resident letter boxes within the developments, with completed copies of the survey collected in a box at the foyer of the building on the week following the survey date. Interview surveys were also undertaken using the survey sheet. The survey sheet included questions regarding:

- The dwelling size (number of bedrooms);
- Number of residents in the dwelling;
- Number of cars and parking spaces;
- Trips made on the day of survey;
- Modes used on the day of survey;
- Travel time:
- · Number of passengers (if car trip); and
- · Purpose of trips.

On the day of the survey, an initial parking occupancy survey was undertaken to determine the initial parking demand for the parking accumulation survey. This was undertaken prior to the commencement of the vehicle and pedestrian surveys beginning.

A vehicle count was undertaken on the day of the survey to count all vehicle movements into and out of the resident car park accesses. This included a survey of vehicle movements, occupancy and numberplates, to allow for an estimate of the accumulation of parking demand and trip durations over the course of the day.

A similar count was undertaken at pedestrian accesses to determine the number of pedestrian trips made during the day, with interviews of pedestrians taken during key periods in the day to help determine the trip making behaviour of visitors as well as residents. The interview survey was undertaken using the single page letter box survey sheet.

Both pedestrian and vehicle access counts also include cyclists, who may enter and exit via both vehicle and pedestrian accesses depending on the layout of each development.

For each of the survey sites, spot checks were undertaken on survey data (pedestrian and vehicle counts) during peak hours to ensure that the data collected is of a high and consistent quality.

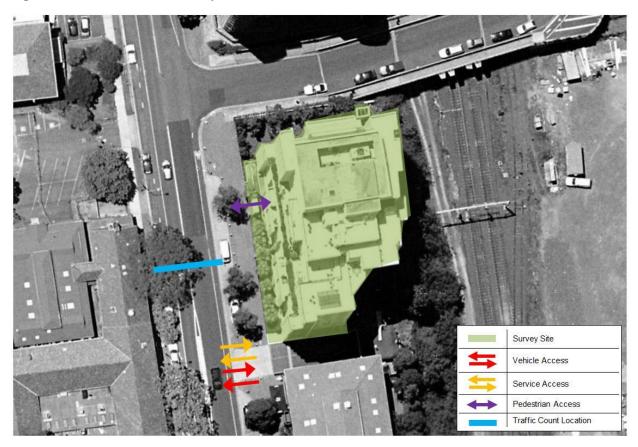
2.3 13 Herbert Street, St Leonards

This residential development is situated in St Leonards in the northern suburbs of Sydney, approximately 7 kilometres north of the Sydney central business district.

2.3.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 4.

Figure 4 St Leonards Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium-to-high density mixed-use developments and is adjacent to Royal North Shore Hospital.
- St Leonards railway station, which is located on the North Shore and Northern railway lines, is situated 100m from the site.
- Herbert Street, which is a collector road, provides vehicle and pedestrian access to the site.
- Adjacent on-street parking is available on Herbert Street, and is time restricted during weekdays and Saturdays.

A more detailed summary of the characteristics of this residential development is provided in Table 2.

Table 2 St Leonards Site Details

Site Identification	
Address	13 Herbert Street, St Leonards
Building Name	Linea Tower
Suburb	St Leonards
Region	Sydney
Year Constructed	1999
Site Details	
No. of Buildings	1
No. of Levels	13
No. of Units	70
No. of Parking Spaces	97
No. of 1 Bedroom Units	15
No. of 2 Bedroom Units	24
No. of 3+ Bedroom Units	31
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	n/a
Automatic Traffic Counter	
Location	Herbert Street, St Leonards
Surveyed Period	Thursday, 8 March 2012 - Wednesday, 14 March 2012
AM Peak - Weekdays	8:00 AM - 9:00 AM
PM Peak - Weekdays	5:00 PM - 6:00 PM
Peak - Weekends	11:00 AM – 12:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Thursday, 8 March 2012
Date of Survey - Weekends	Saturday, 10 March 2012

2.3.2 Accessibility Score

The St Leonards site is serviced by the following public transport amenities:

- Rail St Leonards Railway Station.
- ▶ Bus Routes m40, m20, 140, 143, 144, 200 and 257 operated by Sydney Buses.

The accessibility score of this residential development is provided in Table 3.

Table 3 Accessibility Score Determination for 13 Herbert Street, St Leonards

			Parameter		No. of Facilitie s		Se
Step	Scoring Methodology			Rail	Light Rail or Ferry	Bus	Scores
1. Determine walking distance	Rail scores:						
from site to	Rail station 0 – 400m	Score = 24	24	1	-	-	24
nearest dominant	Rail station 400 – 800m	Score = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Score = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:					Total	24
route.(Each route	Light rail or ferry route 0 – 400m	Score = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Score = 4	4	-	-	-	-
····,	Light rail or ferry route >800m	Score = 0	0	-	-	-	-
	Bus scores:					Total	0
	Each bus route 0 – 400m	Score = 4	4	-	-	-	-
	Each bus route 400 – 800m	Score = 1	1	-	-	7	7
	Each bus route > 800m	m Score = 0		-	-	-	-
						Total	7
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with the factor	r				
priority treatment (This is a proxy	Heavy rail, light rail or ferry route	Multiply by 1		24	-	-	24
for public transport	Bus Transitway	Multiply bus route score by 3		-	-	-	-
reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus route score by 2	2	-	-	2	4
speed)	Corridor with express services	Multiply bus route score by 1.5	1.5	-	-	-	-
	Standard bus route.	Multiply bus route score by 1	1	-	-	5	5
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:	_					
	> 20 services in the 2hr AM peak both ways	Multiply mode score by 3	3	24	-	4	84
	13-20 services in the 2hr AM peak both ways	Multiply mode score by 2	2	-	-	2	4
	8-12 services in the 2hr AM peak both ways	Multiply mode score by 1	1	-	-	2	2
	≤7 services in the 2hr AM peak both ways	Multiply mode score by 0.5	0.5	-	-	1	0.5
•	res for each mode corridor, to produce a total F	Public Transport Score				Total	90.5
5. Determine walking proximity	Determine the Centre Score, using the follow	_					
of site to a centre (as defined in the	Within 800m of boundary of existing Global/R				-		-
Metropolitan	Within 800m of boundary of existing/developi		0 40		-		-
Strategy)	Within 800m of boundary of existing/developing Centre and Specialised Centre	Score =2	20		1		20
produce a total Acce	ansport Score from Step 4. above to Centre Sco essibility Score to convert the Accessibility Score to the Acces						110.5

Based on the calculations shown in Table 3, the accessibility score of the St Leonards site is 110.5, which corresponds to an accessibility discount factor of 0.4

2.3.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the St Leonards residential development. A total of 140 surveys were distributed over two days (weekday and Saturday) to the 70 dwellings in the building, with 38 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 103 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 1 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 0 per-dwelling.
- The parking provision for respondents ranged between 0 and 2, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 3, with the most common being 1 bedroom per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was train.
- The typical number of non-resident visitors was 1 per-day per-dwelling, with the most common visitation mode being car (driver).
- The peak trip generating periods for respondents was 12 PM to 5 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was 0 to 5 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

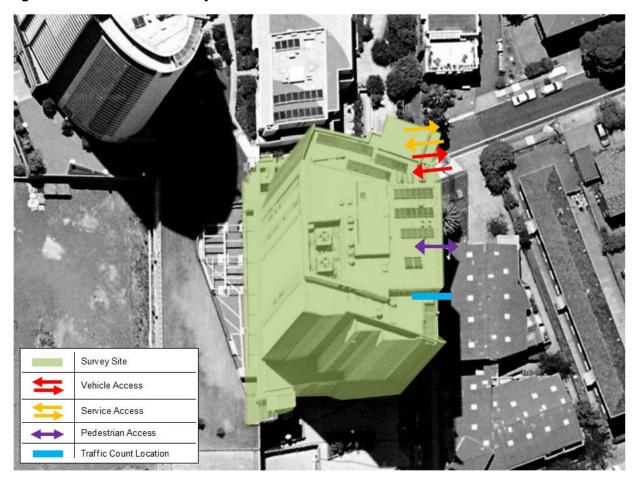
2.4 1 Cambridge Lane, Chatswood

This residential development is situated in Chatswood in the northern suburbs of Sydney, approximately 9 kilometres north of the Sydney central business district.

2.4.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 5.

Figure 5 Chatswood Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium-to-high density mixed-use developments.
- Chatswood transport interchange, which provides rail and bus amenities, is situated immediately south of the site.
- Cambridge Lane, which is a local road, provides vehicle and pedestrian access to the site.
- The Chatswood Westfield shopping complex and pedestrian mall are situated 200m south of the site.
- Adjacent on-street parking is available on Cambridge Lane, and is time restricted during weekdays.

A more detailed summary of the characteristics of this residential development is provided in Table 4.

Table 4 Chatswood Site Details

Address	1 Cambridge Lane, Chatswood
Building Name	Cambridge
Suburb	Chatswood
Region	Sydney
Year Constructed	2002
Site Details	
No. of Buildings	1
No. of Levels	24
No. of Units	129
No. of Parking Spaces	206
No. of 1 Bedroom Units	8
No. of 2 Bedroom Units	96
No. of 3+ Bedroom Units	25
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	Retail on ground floor, childcare centre within building accessible via separate entrance (not surveyed)
Automatic Traffic Counter	
Location	1 Cambridge Lane, Chatswood
Surveyed Period	Saturday, 3 December 2011 - Friday, 9 December 2011
AM Peak - Weekdays	8:00 AM - 9:00 AM
PM Peak - Weekdays	5:00 PM - 6:00 PM
Peak - Weekends	12:00 PM – 1:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Tuesday, 6 December 2011
Date of Survey - Weekends	Saturday, 3 December 2011

2.4.2 Accessibility Score

The Chatswood site is serviced by the following public transport amenities:

- Rail Chatswood Railway Station.
- ▶ Bus Routes m40, 136, 137, 143, 144, 200, 257, 267, 273, and L60 operated by Sydney Buses.

The accessibility score for this residential development is provided in Table 5.

Table 5 Accessibility Score Determination for 1 Cambridge Lane, Chatswood

				Parameter		No. of Facilitie	ı	S
Step	Scoring Methodolo	Scoring Methodology			Rail	Light Rail or Ferry	Bus	Scores
1. Determine	Rail scores:							
walking distance from site to	Rail station 0 – 400m	Scor	re = 24	24	1	-	-	24
nearest dominant	Rail station 400 - 800m	Scor	re = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Scor	re = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:						Total	24
route.(Each route	Light rail or ferry route 0 – 400m	Scor	re = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Scor	re = 4	4	-	-	-	-
omy,	Light rail or ferry route >800m	Scor	re = 0	0	-	-	-	-
	Bus scores:						Total	0
	Each bus route 0 – 400m	Scor	re = 4	4	-	-	10	40
	Each bus route 400 – 800m	Scor	re = 1	1	-	-	-	-
	Each bus route > 800m	Scor	re = 0	0	-	-	-	-
							Total	40
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	the factor					
priority treatment	Heavy rail, light rail or ferry route	Multiply by 1		1	24	-	-	24
(This is a proxy for public	Bus Transitway	Multiply bus route	e score by	3	_	_	_	_
transport reliability,	Other Strategic Bus Corridor*	3 Multiply bus route	e score by	2	-	-	28	56
connectivity and speed)	Corridor with express corvines	Multiply bus route	e score by	1.5			12	18
ороби	Corridor with express services	1.5		1.5	-	-	12	10
	Standard bus route.	Multiply bus route 1	e score by	1	-	-	-	-
3. Determine	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:		_					
frequency		Multiply mode	score by	•	0.4	•	40	400
	> 20 services in the 2hr AM peak both ways 13-20 services in the 2hr AM peak both ways	3 Multiply mode	_	3 2	24 0	0	16 14	120 28
	8-12 services in the 2hr AM peak both ways	Multiply mode	score by	1	0	0	22	22
	≤ 7 services in the 2hr AM peak both ways	Multiply mode	e score by	0.5	0	0	22	11
-	res for each mode corridor, to produce a total F	Public Transport Sc	ore				Total	181
5. Determine walking proximity	Determine the Centre Score, using the following scores:							
of site to a centre (as defined in the	Within 800m of boundary of existing Global/R	egional City	Score =60	60		-		-
Metropolitan	Within 800m of boundary of existing/developi	g/developing Major Centre Score =40		40		1		40
Strategy)	Within 800m of boundary of existing/developi			20		-		-
6. Add the Public Tra	Centre and Specialised Centre Insport Score from Step 4. above to Centre Sco ssibility Score	re from Step 5. abo						221
	to convert the Accessibility Score to the Acces	sibility Discount fa	actor (AD)					0.6

Based on the calculations shown in Table 5, the accessibility score of the Chatswood site is 221, which corresponds to an accessibility discount factor of 0.6.

2.4.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Chatswood residential development. A total of 258 surveys were distributed over two days (weekday and Saturday) to the 129 dwellings in the building, with 33 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 155 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- The parking provision for respondents ranged between 0 and 3, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 3, with the most common being 3 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was car (driver).
- ▶ The typical number of non-resident visitors was 1 per-day per-dwelling, with the most common visitation mode being train.
- ▶ The peak trip generating periods for respondents was 7 AM to 9 AM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was 0 to 5 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.5 8-12 Waratah Street, Cronulla

This residential development is situated in Cronulla in the southern suburbs of Sydney, approximately 22 kilometres from the Sydney central business district.

2.5.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 5.

Figure 6 Cronulla Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium density developments.
- Cronulla railway station, which provides rail and bus amenities, is situated 300m north-west of the site.
- The Cronulla Ferry wharf is situated 400 m north-west of the site.
- The Cronulla Plaza and pedestrian mall are situated 400 m north-west of the site.
- Waratah Street, which is a collector road, provides vehicle and pedestrian access to the site.
- · Adjacent on-street parking is provided on Waratah Street and is unrestricted.

A more detailed summary of the characteristics of this residential development is provided in Table 6.

Table 6 Cronulla Site Details

Site Identification	
Address	8-12 Waratah Street, Cronulla
Building Name	Matthew Flinders Tower
Suburb	Cronulla
Region	Sydney
Year Constructed	1973
Site Details	
No. of Buildings	1
No. of Levels	16
No. of Units	28
No. of Parking Spaces	18
No. of 1 Bedroom Units	0
No. of 2 Bedroom Units	14
No. of 3+ Bedroom Units	14
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	n/a
Automatic Traffic Counter	
Location	Waratah Street, Cronulla
Surveyed Period	Saturday, 12 May 2012 - Friday, 18 May 2012
AM Peak - Weekdays	8:00 AM - 9:00 AM
PM Peak - Weekdays	5:00 PM - 6:00 PM
Peak - Weekends	12:00 PM – 1:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Tuesday, 15 May 2012
Date of Survey - Weekends	Saturday, 12 May 2012

2.5.2 Accessibility Score

The Cronulla site is serviced by the following public transport amenities:

- ▶ Rail Cronulla Railway Station.
- ▶ Bus Routes 962, 969, 971, and 987 operated by Veolia Buses.
- ▶ Ferry Weekday ferry service running between Cronulla and Bundeena, which is operated by Cronulla and National Park Ferry Cruises.

The accessibility score for this residential development is provided in Table 7.

Table 7 Accessibility Score Determination for 8-12 Waratah Street, Cronulla

				iter		No. of Facilitie)	Š.
Step	Scoring Methodol	ogy		Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine walking distance	Rail scores:							
from site to	Rail station 0 – 400m	Sco	re = 24	24	1	-	-	24
nearest dominant	Rail station 400 – 800m	Sco	re = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Sco	ore = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:						Total	24
route.(Each route	Light rail or ferry route 0 – 400m	Sco	ore = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Sco	re = 4	4	-	1	-	4
Omy,	Light rail or ferry route >800m	Sco	ore = 0	0	-	-	-	-
	Bus scores:						Total	4
	Each bus route 0 – 400m	Sco	re = 4	4	-	-	3	12
	Each bus route 400 – 800m	Sco	ore = 1	1	-	-	1	1
	Each bus route > 800m	Sco	ore = 0	0	-	-	-	-
							Total	13
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	h the factor					
priority treatment	Heavy rail, light rail or ferry route	Multiply by 1		1	24	4	-	28
(This is a proxy for public transport	Bus Transitway	Multiply bus rout	e score by	3	-	-	-	-
reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus rout 2	e score by	2	-	-	-	-
speed)	Corridor with express services	Multiply bus rout		1.5	-	-	-	-
	Standard bus route.	Multiply bus rout	e score by	1	-	-	13	13
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:		_					
	> 20 services in the 2hr AM peak both ways	Multiply mod	e score by	3	24	-	-	72
	13-20 services in the 2hr AM peak both ways	3 Multiply mod 2	e score by	2	-	-	-	-
	8-12 services in the 2hr AM peak both ways	Multiply mod	e score by	1	-	-	-	-
	≤7 services in the 2hr AM peak both ways	Multiply mod 0.5	e score by	0.5	-	4	13	8.5
	res for each mode corridor, to produce a total F	Public Transport S	core				Total	80.5
5. Determine walking proximity of site to a centre	Determine the Centre Score, using the follow Within 800m of boundary of existing Global/R	•	Score =60	60		_		_
(as defined in the	,	•				_		40
Metropolitan	Within 800m of boundary of existing/develop		Score =40	40		1		40
Strategy)	Within 800m of boundary of existing/developed Centre and Specialised Centre	-	Score =20	20		-		-
produce a total Acce	ansport Score from Step 4. above to Centre Sco essibility Score to convert the Accessibility Score to the Acces							120.5

Based on the calculations shown in Table 7, the accessibility score of the Cronulla site is 120.5, which corresponds to an accessibility discount factor of 0.6

2.5.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Cronulla residential development. A total of 56 surveys were distributed over two days (weekday and Saturday) to the 28 dwellings in the building, with 17 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 49 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- ▶ The parking provision for respondents ranged between 1 and 2, with the most common being 2 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 2 and 3, with the most common being 2 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was walk.
- ▶ The typical number of non-resident visitors was 1 per-day per-dwelling, with the most common visitation mode being car (driver).
- ▶ The peak trip generating periods for respondents was 9 AM to 12 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was more than 11 to 15 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.6 2-8 Ashton Street, Rockdale

This residential development is situated in Rockdale, which is approximately 13 kilometres south of the Sydney central business district.

2.6.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 7.

Figure 7 Rockdale Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium-to-high density mixed-use and commercial developments.
- Rockdale Plaza, which is a medium sized shopping centre, is situated adjacent to the site.
- The Princes Highway is an arterial road running north-south adjacent to the site.
- Rockdale railway station and transport interchange is situated 300 m north of the site.
- Vehicular and pedestrian access to the site is provided from Ashton Street and Rockdale Plaza Drive, which are both local roads.
- Adjacent on-street parking is provided on Ashton Street and is unrestricted.

A more detailed summary of the characteristics of this residential development is provided in Table 8.

Table 8 Rockdale Site Details

Site Identification	
Address	2-8 Ashton Street, Rockdale
Building Name	The Ashton
Suburb	Rockdale
Region	Sydney
Year Constructed	1995 and 1996
Site Details	
No. of Buildings	2
No. of Levels	10 (Tower 1) and 11 (Tower 2)
No. of Units	234
No. of Parking Spaces	260
No. of 1 Bedroom Units	4
No. of 2 Bedroom Units	214
No. of 3+ Bedroom Units	16
No. of Pedestrian Accesses	2 (one for each tower)
No. of Vehicle Accesses	1 Entrance (residents)
	2 Exits(residents)
	1 Service vehicle access
Other Land Uses	Commercial/retail on ground floor of Building 2.
	Building complex adjoins Rockdale Plaza.
Automatic Traffic Counter	
Location	1 Ashton Street, Rockdale
Surveyed Period	Wednesday, 22 February 2012 - Tuesday, 28 February 2012
AM Peak - Weekdays	8:00 AM - 9:00 AM
PM Peak - Weekdays	6:00 PM - 7:00 PM
Peak - Weekends	6:00 PM – 7:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Thursday, 23 February 2012
Date of Survey - Weekends	Saturday, 25 February 2012

2.6.2 Accessibility Score

The Rockdale site is serviced by the following public transport amenities:

Rail – Rockdale Railway Station.

▶ Bus – Routes 410, 422, 473, 476, 477, 478, 479, 492, and 493, operated by Sydney Buses.
The accessibility score for this residential development is provided in Table 9.

Table 9 Accessibility Score Determination for 2-8 Ashton Street, Rockdale

				eter		No. of Facilitie s		Se
Step	Scoring Methodolo	ogy		Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine walking distance	Rail scores:							
from site to	Rail station 0 – 400m	Sco	re = 24	24	-	-	-	-
nearest dominant	Rail station 400 – 800m	Sco	re = 12	12	1	-	-	12
stop/station for each mode	Rail station > 800m	Sco	re = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:						Total	12
route (Each route	Light rail or ferry route 0 – 400m	Sco	re = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Sco	re = 4	4	-	-	-	-
omy,	Light rail or ferry route >800m	Sco	re = 0	0	-	-	-	-
	Bus scores:						Total	0
	Each bus route 0 – 400m	Sco	re = 4	4	-	-	5	20
	Each bus route 400 – 800m	Sco	re = 1	1	-	-	4	4
	Each bus route > 800m	Sco	re = 0	0	-	-	-	-
							Total	24
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	the factor					
priority treatment (This is a proxy	Heavy rail, light rail or ferry route	Multiply by 1		1	12	-	-	12
for public transport	Bus Transitway	Multiply bus rout	e score by	3	-	-	-	-
reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus rout	e score by	2	-	-	-	-
speed)	Corridor with express services	Multiply bus rout	e score by	1.5	-	-	-	-
	Standard bus route.	Multiply bus rout	e score by	1	-	-	24	24
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:							
	> 20 services in the 2hr AM peak both ways	Multiply mode	e score by	3	12	-	4	48
	13-20 services in the 2hr AM peak both ways	Multiply mode 2	•	2	-	-	5	10
	8-12 services in the 2hr AM peak both ways	Multiply mode	e score by	1	-	-	13	13
	≤ 7 services in the 2hr AM peak both ways	Multiply mode 0.5	e score by	0.5	-	-	2	1
•	res for each mode corridor, to produce a total P	Public Transport So	ore				Total	72
5. Determine walking proximity	Determine the Centre Score, using the following	ng scores:						
of site to a centre	Within 800m of boundary of existing Global/R	egional City	Score =60	60		-		-
(as defined in the Metropolitan	Within 800m of boundary of existing/developi	ng Major Centre	Score =40	40		-		-
Strategy)	Within 800m of boundary of existing/developi Centre and Specialised Centre	ng Smaller	Score =20	20		1		20
produce a total Acce	ansport Score from Step 4. above to Centre Sco							92

Based on the calculations shown in Table 9, the accessibility score of the Rockdale site is 92, which corresponds to an accessibility discount factor of 0.6

2.6.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Rockdale residential development. A total of 468 surveys were distributed over two days (weekday and Saturday) to the 234 dwellings in the building, with 43 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 211 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 4 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- The parking provision for respondents ranged between 1 and 3, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 2 and 3, with the most common being 2 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was train.
- ▶ The typical number of non-resident visitors was 2 per-day per-dwelling, with the most common visitation mode being train.
- The peak trip generating periods for respondents was 9 AM to 12 PM
- The typical duration of the walk component of public transport related trips made by respondents was 11 to 15 minutes.
- The typical duration of walk-only trips made by respondents was more than 30 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.7 26-30 Hassall Street, Parramatta

This residential development is situated in Parramatta, which is approximately 23 kilometres west from the Sydney central business district.

2.7.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 8.

Figure 8 Parramatta Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium-to-high density mixed-use developments.
- Parramatta railway station and transport interchange is situated 300 m west of the site.
- Vehicular and pedestrian access to the site is provided from Hassall Street, which is a local road.
- Parramatta Ferry Wharf is located 400 m north of the site on the Parramatta River.
- Parramatta Westfield shopping centre is situated 600 m west of the site.
- Macquarie Street Carpark is located adjacent to the site, and offers restricted parking between 6
 AM and 7 PM, Monday through Saturday.

A more detailed summary of the characteristics of this residential development is provided in Table 10.

Table 10 Parramatta Site Details

26-30 Hassall Street, Parramatta
26-30 Hassall Street, Parramatta
Parramatta
Sydney
2002
1
15
83
108
9
57
17
1
1
n/a
26-30 Hassall Street, Parramatta
Saturday 31 March 2012, Tuesday 3 April 2012, 29 April 2012 – Saturday, 5 May 2012
8:00 AM – 9:00 AM
5:00 PM – 6:00 PM
1:00 PM – 2:00 PM
Tuesday, 3 April 2012
Saturday, 31 March 2012

2.7.2 Accessibility Score

The Parramatta site is serviced by the following public transport amenities:

- Rail Parramatta Railway Station.
- ▶ Bus Routes 520, 521, 523, 524, 525, 545, 546, 547, 549, 550, 552 m52, and m54 operated by Sydney Buses.

Ferry – Ferry service running between Parramatta and Circular Quay that is operated by Sydney
ferries.

The accessibility score for this residential development is provided in Table 11.

Table 11 Accessibility Score Determination for 26-30 Hassall Street, Parramatta

				eter		No. of Facilitie s		sə.
Step	Scoring Methodolo	ogy		Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine walking distance	Rail scores:							
from site to	Rail station 0 – 400m	Scor	e = 24	24	1	-	-	24
nearest dominant	Rail station 400 – 800m	Scor	e = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Scor	e = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:						Total	24
route.(Each route	Light rail or ferry route 0 – 400m	Scor	e = 8	8	-	1	-	8
is counted once only)	Light rail or ferry route 400 – 800m	Scor	e = 4	4	-	-	-	-
···· / /	Light rail or ferry route >800m	Scor	e = 0	0	-	-	-	-
	Bus scores:						Total	8
	Each bus route 0 – 400m	Scor	e = 4	4	-	-	13	52
	Each bus route 400 – 800m	Scor	e = 1	1	-	-	-	-
	Each bus route > 800m	Scor	e = 0	0	-	-	-	-
							Total	52
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	the factor					
priority treatment	Heavy rail, light rail or ferry route	Multiply by 1		1	32	_	_	32
(This is a proxy		Multiply bus route	score by		02			02
for public transport	Bus Transitway	3	, 30010 by	3	-	-	-	-
reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus route 2	-	2	-	-	44	88
speed)	Corridor with express services	Multiply bus route 1.5	score by	1.5	-	-	-	-
	Standard bus route.	Multiply bus route	score by	1	-	-	-	-
	* If bus route is on a Strategic Bus Corridor fo	or less than 50% of	its length,					120
3. Determine frequency	treat as an express corridor For each mode corridor, multiply the score in below:	Step 2. above with	the factor					
. ,	> 20 services in the 2hr AM peak both ways	Multiply mode	score by	3	24	_	24	144
	13-20 services in the 2hr AM peak both ways	3 Multiply mode 2	score by	2	-	-	-	-
	8-12 services in the 2hr AM peak both ways	Multiply mode	score by	1	-	8	32	40
	≤7 services in the 2hr AM peak both ways	Multiply mode 0.5	score by	0.5	-	-	48	24
•	res for each mode corridor, to produce a total P	•	ore				Total	208
5. Determine walking proximity	Determine the Centre Score, using the followi	ng scores:						
of site to a centre	Within 800m of boundary of existing Global/R	egional City	Score =60	60		-		-
(as defined in the Metropolitan	Within 800m of boundary of existing/developing	ng Major Centre	Score =40	40		1		40
Strategy)	Within 800m of boundary of existing/developing	ng Smaller	Score =20	20		_		_
	Centre and Specialised Centre ansport Score from Step 4. above to Centre Score	re from Step 5. abo		_0				248
produce a total Acce	essibility Score to convert the Accessibility Score to the Acces	sibility Dissount fo	oto= (AD)					

Based on the calculations shown in Table 11, the accessibility score of the Parramatta site is 248, which corresponds to an accessibility discount factor of 0.6

2.7.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Parramatta residential development. A total of 166 surveys were distributed over two days (weekday and Saturday) to the 83 dwellings in the building, with 30 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 116 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- The parking provision for respondents ranged between 0 and 2, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 3, with the most common being 2 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was walk.
- There were no responses recorded relating to non-resident visitation at this site.
- The peak trip generating periods for respondents was 12 PM to 5 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was more than 30 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

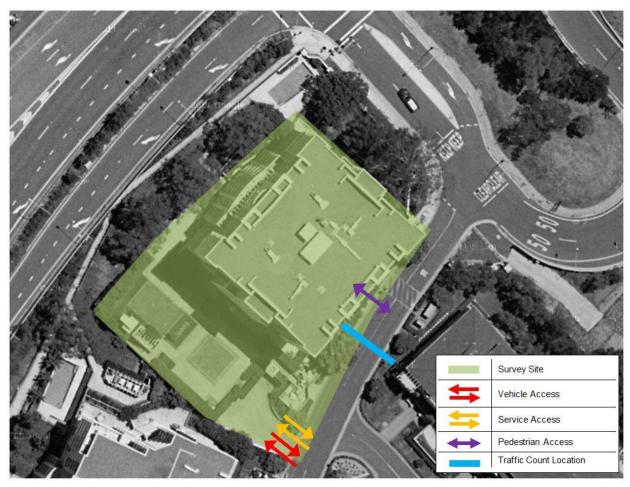
2.8 10 Wentworth Drive, Liberty Grove

This residential development is situated in Liberty Grove in the inner-west of Sydney, approximately 16 kilometres from the Sydney central business district.

2.8.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 9.

Figure 9 Liberty Grove Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by high density residential developments.
- Rhodes railway station on the Northern line is situated 900m north of the site.
- Vehicular and pedestrian access to the site is provided from Wentworth Drive, which is a local road that connects to Homebush Bay Drive, an arterial road.
- Rhodes Shopping Centre is situated 150m north of the site.
- Off-street parking adjacent to the kerb is available on Wentworth Drive, and Bradley Place.

A more detailed summary of the characteristics of this residential development is provided in Table 12.

Table 12 Liberty Grove Site Details

Site Identification	
Address	10 Wentworth Drive, Liberty Grove
Building Name	Rosebank
Suburb	Liberty Grove
Region	Sydney
Year Constructed	1998
Site Details	
No. of Buildings	1
No. of Levels	10
No. of Units	64
No. of Parking Spaces	93
No. of 1 Bedroom Units	0
No. of 2 Bedroom Units	36
No. of 3+ Bedroom Units	28
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	n/a
Automatic Traffic Counter	
Location	10 Wentworth Drive, Liberty Grove
Surveyed Period	Sunday, 13 May 2012 – Saturday, 19 May 2012
AM Peak - Weekdays	8:00 AM – 9:00 AM
PM Peak - Weekdays	5:00 PM – 6:00 PM
Peak - Weekends	5:00 PM – 6:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Thursday, 17 May 2012
Date of Survey - Weekends	Saturday, 19 May 2012

2.8.2 Accessibility Score

The Liberty Grove site is serviced by the following public transport amenities:

▶ Bus – Routes 458, 459, 460, and m41 operated by Sydney Buses.

The accessibility score for this residential development is provided in Table 13.

Table 13 Accessibility Score Determination for 10 Wentworth Drive, Liberty Grove

				ster		No. of Facilitie S		S
Step	Scoring Methodolo	ogy		Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine walking distance	Rail scores:							
from site to	Rail station 0 – 400m	Sco	re = 24	24	-	-	-	-
nearest dominant	Rail station 400 – 800m	Sco	re = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Sco	re = 0	0	-	-	-	-
corridor or bus	Light rail / ferry scores:						Total	0
route.(Each route	Light rail or ferry route 0 – 400m	Sco	re = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Sco	re = 4	4	-	-	-	-
Omy,	Light rail or ferry route >800m	Sco	re = 0	0	-	-	-	-
	Bus scores:						Total	0
	Each bus route 0 – 400m	Sco	re = 4	4	-	-	4	16
	Each bus route 400 - 800m	Sco	re = 1	1	-	-	-	-
	Each bus route > 800m	Sco	re = 0	0	-	-	-	-
							Total	16
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	n the factor					
priority treatment (This is a proxy	Heavy rail, light rail or ferry route	Multiply by 1		1	-	-	-	-
for public	Bus Transitway	Multiply bus rout	e score by	3	-	-	-	-
transport reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus rout	e score by	2	-	-	4	8
speed)	Corridor with express services	Multiply bus rout	e score by	1.5	-	-	-	-
	Standard bus route.	1.5 Multiply bus rout	e score by	1	-	-	12	12
3. Determine	* If bus route is on a Strategic Bus Corridor for treat as an express corridor		_					20
frequency	For each mode corridor, multiply the score in below:	-						
	> 20 services in the 2hr AM peak both ways	Multiply mod	_	3	-	-	8	24
	13-20 services in the 2hr AM peak both ways	Multiply mode 2	-	2	-	-	-	-
	8-12 services in the 2hr AM peak both ways	Multiply mode	e score by	1	-	-	4	4
	≤ 7 services in the 2hr AM peak both ways	Multiply mode 0.5	e score by	0.5	-	-	8	4
-	res for each mode corridor, to produce a total F	Public Transport So	core				Total	32
5. Determine	Determine the Centre Score, using the following	ing scores:						
walking proximity of site to a centre	Within 800m of boundary of existing Global/R	egional City	Score =60	60		-		-
(as defined in the Metropolitan	Within 800m of boundary of existing/developi	Score =40	40		1		40	
Strategy)	Within 800m of boundary of existing/developi	Score =20	20		_		_	
	Centre and Specialised Centre ansport Score from Step 4. above to Centre Sco	re from Step 5. abo		20		-		- 72
	to convert the Accessibility Score to the Acces	sibility Discount fa	actor (AD)					

Based on the calculations shown in Table 13, the accessibility score of the Liberty Grove site is 72, which corresponds to an accessibility discount factor of 0.4

2.8.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Liberty Grove residential development. A total of 128 surveys were distributed over two days (weekday and Saturday) to the 64 dwellings in the building, with 33 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 96 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 4 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- The parking provision for respondents ranged between 0 and 2, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 4, with the most common being 2 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was car (driver).
- ▶ The typical number of non-resident visitors was 1 per-day per-dwelling, with the most common visitation mode being car (driver).
- The peak trip generating periods for respondents were 7 AM to 9 AM, and 9 AM to 12 PM
- The typical duration of the walk component of public transport related trips made by respondents was 11 to 15 minutes.
- The typical duration of walk-only trips made by respondents was more than 30 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.9 2 Everton Road, Strathfield

This residential development is situated in Strathfield, which is approximately 14 kilometres west of the Sydney central business district.

2.9.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 10.

Figure 10 Strathfield Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by low-to-medium density residential developments.
- Strathfield railway station on the Northern, Inner West, Western and Southern lines is situated 250m west of the site.
- Vehicular and pedestrian access to the site is provided from Everton Road (local road) and Wentworth Road (collector road).
- Strathfield Plaza is situated 500m south-west of the site.
- On-street parking is available on Everton Road immediately west of the site location and is unrestricted. In addition, on-street parking is available on Wentworth Road, which is restricted between 8 AM and 6 PM during weekdays, and between 8 AM and 1 PM on Saturdays.

A more detailed summary of the characteristics of this residential development is provided in Table 14.

Table 14 Strathfield Site Details

Site Identification	
Address	2 Everton Road, Strathfield
Building Name	n/a
Suburb	Strathfield
Region	Sydney
Year Constructed	c. 1970
Site Details	
No. of Buildings	1
No. of Levels	8
No. of Units	31
No. of Parking Spaces	30
No. of 1 Bedroom Units	0
No. of 2 Bedroom Units	31
No. of 3+ Bedroom Units	0
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	n/a
Automatic Traffic Counter	
Location	1 Everton Road, Strathfield
Surveyed Period	Wednesday, 14 March 2012 - Tuesday, 20 March 2012
AM Peak - Weekdays	8:00 AM – 9:00 AM
PM Peak - Weekdays	4:00 PM – 5:00 PM
Peak - Weekends	3:00 PM – 4:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Thursday, 15 March 2012
Date of Survey - Weekends	Saturday, 17 March 2012

2.9.2 Accessibility Score

The Strathfield site is serviced by the following public transport amenities:

- Rail Strathfield railway station.
- Bus Routes 407, 408, 415, 462, 466, 525, and 526 operated by Sydney BNewcastuses.

The accessibility score for this residential development is provided in Table 15.

Table 15 Accessibility Score Determination for the 2 Everton Road, Strathfield

		eter		No. of Facilitie)	S				
Step	Scoring Methodolo	Parameter	Rail	Light Rail or Ferry	Bus	Scores				
1. Determine	Rail scores:									
walking distance from site to	Rail station 0 – 400m	Sco	re = 24	24	1	-	-	24		
nearest dominant	Rail station 400 - 800m	Sco	re = 12	12	-	-	-	-		
stop/station for each mode	Rail station > 800m	Sco	re = 0	0	-	-	-	-		
corridor or bus	Light rail / ferry scores:	Light rail / ferry scores:								
route (Each route	Light rail or ferry route 0 – 400m	Sco	re = 8	8	-	-	-	-		
is counted once only)	Light rail or ferry route 400 – 800m	Sco	re = 4	4	-	-	-	-		
Omy,	Light rail or ferry route >800m	Sco	re = 0	0	-	-	-	-		
	Bus scores:						Total	0		
	Each bus route 0 – 400m	Sco	re = 4	4	-	-	6	24		
	Each bus route 400 – 800m	Sco	re = 1	1	-	-	1	1		
	Each bus route > 800m	Sco	re = 0	0	-	-	-	-		
							Total	25		
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above with	n the factor							
priority treatment	Heavy rail, light rail or ferry route		1	24	-	-	24			
(This is a proxy for public	Rue Trancitway	Multiply bus rout	e score by	3		_		_		
transport reliability,	Bus Transitway Other Strategic Bus Corridor*	3 Multiply bus rout	e score by	2	-	-	-	-		
connectivity and	Cure. Curatogio Zuo Comune.	2 Multiply bus rout	_							
speed)	Corridor with express services	1.5	1.5	-	-	-	-			
	Standard bus route.	Multiply bus rout	e score by	1	-	-	25	25		
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:					49				
requericy		Multiply mod	e score by	3	24			70		
	> 20 services in the 2hr AM peak both ways 13-20 services in the 2hr AM peak both ways	3 Multiply mod	e score by	2	24	-	4	72 8		
	8-12 services in the 2hr AM peak both ways	2 Multiply mod	e score by	1	_	_	12	12		
	≤ 7 services in the 2hr AM peak both ways	Multiply mod 0.5	e score by	0.5	-	-	9	4.5		
	res for each mode corridor, to produce a total F	Public Transport So	core				Total	96.5		
5. Determine	Determine the Centre Score, using the follow	ing scores:								
walking proximity of site to a centre	Within 800m of boundary of existing Global/R	Score =60	60		-		-			
(as defined in the Metropolitan	Within 800m of boundary of existing/develop	Score =40	40		1		40			
Strategy)	Within 800m of boundary of existing/develop	20		_		_				
produce a total Acce	Centre and Specialised Centre ansport Score from Step 4. above to Centre Sco assibility Score to convert the Accessibility Score to the Acces	-		_*				136.5		

Based on the calculations shown in Table 15, the accessibility score of the Strathfield site is 96.5, which corresponds to an accessibility discount factor of 0.6

2.9.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Strathfield residential development. A total of 62 surveys were distributed over two days (weekday and Saturday) to the 31 dwellings in the building, with 29 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 54 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- The typical vehicle ownership of survey respondents was 1 per-dwelling.
- ▶ The typical parking provision for respondents was 1 parking space per-dwelling.
- ▶ The typical number of bedrooms per-dwelling for respondents was 2 per-dwelling.
- The typical number of trips (two-way) per-day per-unit for respondents was 14.
- ▶ The most common mode of transport for respondents was train.
- ▶ There were no responses recorded relating to non-resident visitation at this site.
- The peak trip generating periods for respondents was 12 PM to 5 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- The typical duration of walk-only trips made by respondents was more than 30 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.10 316 Charlestown Road, Charlestown

This regional residential development is situated in Charlestown, which is approximately 10 kilometres south-west of the Newcastle central business district.

2.10.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 11.

Figure 11 Charlestown Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by commercial and retail developments, as well as low density residential developments.
- Charlestown transport interchange is situated 250m south-east of the site.
- Vehicular access to the site is provided from Chapman Street (Collector Road), and pedestrian access is provided from Charlestown Road (Sub-arterial Road).
- The Charlestown Square shopping complex is situated 100m south of the site.
- Limited on-street parking is available on Chapman Street, and is time restricted during weekdays.

A more detailed summary of the characteristics of this residential development is provided in Table 16.

Table 16 Charlestown Site Details

Site Identification	
Address	316 Charlestown Road, Charlestown
Building Name	Alto
Suburb	Charlestown
Region	Newcastle
Year Constructed	2004
Site Details	
No. of Buildings	1
No. of Levels	9
No. of Units	108
No. of Parking Spaces	113
No. of 1 Bedroom Units	31
No. of 2 Bedroom Units	53
No. of 3+ Bedroom Units	24
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	2 (1 residential vehicle access, 1 service vehicle access)
Other Land Uses	Commercial and Retail located on ground floor.
Automatic Traffic Counter	
Location	5 Chapman Street, Charlestown
Surveyed Period	Saturday, 12 May 2012 – Friday, 18 May 2012
AM Peak - Weekdays	11:00 AM – 12:00 PM
PM Peak - Weekdays	3:00 PM – 4:00 PM
Peak - Weekends	11:00 AM – 12:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Tuesday, 15 May 2012
Date of Survey - Weekends	Saturday, 12 May 2012

2.10.2 Accessibility Score

The Charlestown site is serviced by the following public transport amenities:

Bus – Routes 100, 111, 310, 313, 317, 320, 322, 349 and 350 operated by Newcastle Buses.

The accessibility score for this residential development is provided in Table 17.

Table 17 Accessibility Score Determination for the 316 Charlestown Road, Charlestown

Step	Scoring Methodology				No. of Facilitie	v		
				Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine	Rail scores:							
walking distance from site to	Rail station 0 – 400m	Sco	ore = 24	24	-	-	-	-
nearest dominant	Rail station 400 – 800m	Sco	ore = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Sco	ore = 0	0	-	-	-	-
each mode corridor or bus	Light rail / ferry scores:						Total	0
oute.(Each route	Light rail or ferry route 0 – 400m	Sco	ore = 8	8	-	0	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Sco	ore = 4	4	-	0	-	-
omy)	Light rail or ferry route >800m	Sco	ore = 0	0	-	0	-	-
	Bus scores:						Total	0
	Each bus route 0 – 400m	Sco	ore = 4	4	-	-	9	36
	Each bus route 400 – 800m	Sco	ore = 1	1	-	-	-	-
	Each bus route > 800m	Sco	ore = 0	0	-	-	-	-
2. Determine infrastructure priority treatment (This is a proxy	For each mode corridor, multiply the score in below: Heavy rail, light rail or ferry route	Multiply by 1		1	-	-	-	-
for public	Bus Transitway	Multiply bus rout	te score by	3	-	-	-	-
transport reliability, connectivity and	Other Strategic Bus Corridor*	Multiply bus rout	te score by	2	-	-	-	-
speed)	Corridor with express services	Multiply bus rout	te score by	1.5	-	-	-	-
	Standard bus route.	Multiply bus rout	te score by	1	-	-	36	36
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:		_					
	> 20 services in the 2hr AM peak both ways	Multiply mod 3	e score by	3	-	-	-	-
	13-20 services in the 2hr AM peak both ways	Multiply mod 2	e score by	2	-	-	-	-
	8-12 services in the 2hr AM peak both ways	Multiply mod	-	1	-	-	12	12
	≤ 7 services in the 2hr AM peak both ways	e score by	0.5	-	-	24	12	
•	res for each mode corridor, to produce a total F	•	core				Total	24
i. Determine valking proximity	Determine the Centre Score, using the follow	ing scores:						
of site to a centre	Within 800m of boundary of existing Global/R	Score =60	60		-		-	
as defined in the Metropolitan	Within 800m of boundary of existing/develop	Score =40	40		1		40	
Strategy)	Within 800m of boundary of existing/developing Centre and Specialised Centre	20		-		-		
produce a total Acce	ansport Score from Step 4. above to Centre Sco							64

Therefore, the accessibility score of the Charlestown site is 64, which corresponds to the accessibility discount factor of 0.6.

2.10.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Charlestown residential development. A total of 216 surveys were distributed over two days (weekday and Saturday) to the 108 dwellings in the building, with 39 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 138 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 1 per-dwelling.
- ▶ The parking provision for respondents ranged between 1 and 2, with the most common being 2 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 3, with the most common being 2 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was car (driver).
- ▶ The typical number of non-resident visitors was 2 per-day per-dwelling, with the most common visitation mode being car (driver).
- The peak trip generating periods for respondents was 9 AM to 12 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was 6 to 10 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

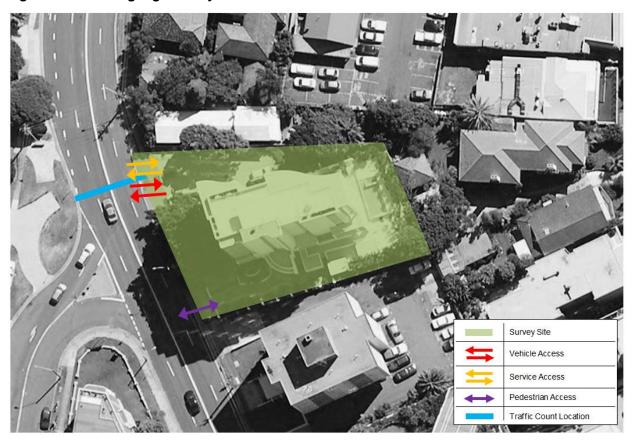
2.11 3-5 Corrimal Street, Wollongong

This regional residential development is situated in Wollongong in the Illawarra region of New South Wales, which is approximately 82 kilometres south of the Sydney central business district.

2.11.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 12.

Figure 12 Wollongong Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by medium-to-high density residential developments.
- Wollongong transport interchange, which provides rail and bus amenities, is situated 1.5 km south-west of the site.
- Corrimal Street, which is a collector road, provides vehicle and pedestrian access to the site.
- The Gateway Shopping Complex and Crown Street pedestrian mall are situated 1 km south of the site.

A more detailed summary of the characteristics of this residential development is provided in Table 18.

Table 18 Wollongong Site Details

Site Identification	
Address	3-5 Corrimal Street, Wollongong

Site Identification

One identification	
Building Name	Quay
Suburb	Wollongong
Region	Wollongong
Year Constructed	2004
Site Details	
No. of Buildings	1
No. of Levels	9
No. of Units	9
No. of Parking Spaces	19
No. of 1 Bedroom Units	0
No. of 2 Bedroom Units	0
No. of 3+ Bedroom Units	9
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	1
Other Land Uses	n/a
Automatic Traffic Counter	
Location	3-5 Corrimal Street, Wollongong
Surveyed Period	Monday, 28 May 2012 – Sunday, 3 June 2012
AM Peak - Weekdays	8:00 AM – 9:00 AM
PM Peak - Weekdays	5:00 PM – 6:00 PM
Peak - Weekends	12:00 PM – 1:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Tuesday, 29 May 2012
Date of Survey - Weekends	Saturday, 26 May 2012

2.11.2 Accessibility Score

The Liberty Grove site is serviced by the following public transport amenities:

Bus – Routes 1 and 4 operated by Dion's Bus Services, route 2 operated by Greens Northern Coaches, and routes 3, 4, 6, 7, and 8 operated by Illawarra Premier.

The accessibility score for this residential development is provided in Table 19.

Table 19 Accessibility Score Determination for 3-5 Corrimal Street, Wollongong

		eter		No. of Facilitie)	se		
Step	Scoring Methodol	ogy		Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine	Rail scores:							
walking distance from site to	Rail station 0 – 400m	Sco	re = 24	24	-	-	-	-
nearest dominant	Rail station 400 - 800m	Sco	re = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Sco	re = 0	0	1	-	-	0
corridor or bus	Light rail / ferry scores:						Total	0
route.(Each route	Light rail or ferry route 0 – 400m	Sco	re = 8	8	-	-	-	-
is counted once only)	Light rail or ferry route 400 – 800m	Sco	re = 4	4	-	-	-	-
Only)	Light rail or ferry route >800m	Sco	re = 0	0	-	-	-	-
	Bus scores:						Total	0
	Each bus route 0 – 400m	Sco	re = 4	4	-	-	-	-
	Each bus route 400 - 800m	Sco	re = 1	1	-	-	-	-
	Each bus route > 800m	Sco	re = 0	0	-	-	7	7
							Total	7
2. Determine infrastructure	For each mode corridor, multiply the score in below:	Step 1. above witl	n the factor					
priority treatment	Heavy rail, light rail or ferry route		1	-	-	-	-	
(This is a proxy for public	Bus Transitway	Multiply bus rout	e score by	3	_	_	_	_
transport reliability,	Other Strategic Bus Corridor*	3 Multiply bus rout	e score by	2	-	-	-	
connectivity and		Multiply bus rout	e score by					
speed)	Corridor with express services	1.5		1.5	-	-	-	-
	Standard bus route.	Multiply bus rout	e score by	1	-	-	7	7
3. Determine	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in							
frequency	below:	Multiply mod	e score by					
	> 20 services in the 2hr AM peak both ways	3	e score by	3	-	-	-	-
	13-20 services in the 2hr AM peak both ways	Multiply mod 2	e score by	2	-	-	-	-
	8-12 services in the 2hr AM peak both ways	Multiply mod 1	-	1	-	-	-	-
	≤ 7 services in the 2hr AM peak both ways	Multiply mod 0.5	e score by	0.5	-	-	7	3.5
	res for each mode corridor, to produce a total F	Public Transport Se	core				Total	3.5
5. Determine walking proximity	Determine the Centre Score, using the follow	ing scores:						
of site to a centre	Within 800m of boundary of existing Global/R	egional City	Score =60	60		1		60
(as defined in the Metropolitan	Within 800m of boundary of existing/develop	Score =40	40		-		-	
Strategy)	Within 800m of boundary of existing/develop	Score =20	20		-		-	
produce a total Acce	Centre and Specialised Centre insport Score from Step 4. above to Centre Sco ssibility Score to convert the Accessibility Score to the Acces	-						63.5

Based on the calculations shown in Table 19, the accessibility score of the Wollongong site is 63.5, which corresponds to an accessibility discount factor of 0.4

2.11.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Wollongong residential development. A total of 18 surveys were distributed over two days (weekday and Saturday) to the 9 dwellings in the building, with 7 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 17 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The typical vehicle ownership of survey respondents was 2 per-dwelling.
- The most common parking provision for respondents was 2 per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 3 and 4, with the most common being 3 bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- The most common mode of transport for respondents was car (driver).
- ▶ The typical visitation mode for non-resident visitors was car (driver).
- The peak trip generating periods for respondents was 12 PM to 5 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was 6 to 10 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

2.12 208 Harris Street, Pyrmont

This residential development is situated in Pyrmont, which is approximately 1 kilometre south-west of the Sydney central business district.

2.12.1 Site Characteristics

The site arrangement, as well as the location of the Automatic Traffic Counter is shown in Figure 13.

Figure 13 Pyrmont Site Layout



The characteristics of the surrounding land use include the following:

- The site is surrounded predominantly by low-to-medium density residential and mixed-use developments and is in close proximity to the Western Distributor, The Star Casino, and Sydney Darling Harbour.
- A number of stops for the Sydney Light Rail Network are situated within walking distance of the site.
- Vehicular access to the site is provided from Ada Place (Local Road), and pedestrian access is provided from Harris Street (Collector Road).
- Adjacent on-street paid parking is available on Pyrmont Street and Ada Place, and is time restricted.

A more detailed summary of the characteristics of this residential development is provided in Table 20.

Table 20 Pyrmont Site Details

Site Identification	
Address	209 Harris Street, Pyrmont
Building Name	The Bauhaus Apartments
Suburb	Pyrmont
Region	Sydney
Year Constructed	2001
Site Details	
No. of Buildings	1
No. of Levels	8
No. of Units	131
No. of Parking Spaces	199
No. of 1 Bedroom Units	70
No. of 2 Bedroom Units	54
No. of 3+ Bedroom Units	7
No. of Pedestrian Accesses	1
No. of Vehicle Accesses	2 (1 residential vehicle access, 1 service vehicle access)
Other Land Uses	Commercial and Retail on ground floor.
Automatic Traffic Counter	
Location	209 Harris Street Pyrmont
Surveyed Period	Tuesday, 17 July 2012 - Monday, 23 July 2012
AM Peak - Weekdays	9:00 AM – 10:00 AM
PM Peak - Weekdays	5:00 PM – 6:00 PM
Peak - Weekends	12:00 PM – 1:00 PM
Vehicle and Pedestrian Surveys	
Date of Survey - Weekdays	Tuesday, 26 June 2012
Date of Survey - Weekends	Saturday, 23 June 2012

2.12.2 Accessibility Score

The Pyrmont site is serviced by the following public transport amenities:

- ▶ Light Rail Fish Market, Star City, and Pyrmont Bay light rail stations
- ▶ Bus Routes 448, and 443 operated by Sydney Buses

The accessibility score of this residential development is provided in Table 21.

Table 21 Accessibility Score Determination for 208 Harris Street, Pyrmont

Step	Scoring Methodology				No. of Facilitie	Ø		
				Parameter	Rail	Light Rail or Ferry	Bus	Scores
1. Determine	Rail scores:							
walking distance from site to	Rail station 0 – 400m	Sco	ore = 24	24	-	-	-	-
nearest dominant	Rail station 400 – 800m	Sco	ore = 12	12	-	-	-	-
stop/station for each mode	Rail station > 800m	Sco	ore = 0	0	-	-	-	-
each mode corridor or bus	Light rail / ferry scores:						Total	0
route.(Each route	Light rail or ferry route 0 – 400m	Sco	ore = 8	8	-	1	-	8
is counted once only)	Light rail or ferry route 400 – 800m	Sco	ore = 4	4	-	-	-	-
omy)	Light rail or ferry route >800m	Sco	ore = 0	0	-	-	-	-
	Bus scores:						Total	8
	Each bus route 0 – 400m	Sco	ore = 4	4	2	-	-	8
	Each bus route 400 – 800m	Sco	ore = 1	1	-	-	-	-
	Each bus route > 800m	Sco	ore = 0	0	-	-	-	-
2. Determine infrastructure priority treatment (This is a proxy	For each mode corridor, multiply the score in below: Heavy rail, light rail or ferry route	Step 1. above with Multiply by 1	h the factor	1		8	Total -	8
for public	Bus Transitway	Multiply bus rout	te score by	3	_	-	-	-
transport reliability, connectivity and	Other Strategic Bus Corridor*	3 Multiply bus rout 2	te score by	2	-	-	-	-
speed)	Corridor with express services	Multiply bus rout 1.5	te score by	1.5	-	-	4	6
	Standard bus route.	Multiply bus rout	te score by	1	-	-	4	4
3. Determine frequency	* If bus route is on a Strategic Bus Corridor for treat as an express corridor For each mode corridor, multiply the score in below:		_					8
	> 20 services in the 2hr AM peak both ways	Multiply mod 3	e score by	3	-	-	4	12
	13-20 services in the 2hr AM peak both ways	Multiply mod 2	e score by	2	-	8	-	16
	8-12 services in the 2hr AM peak both ways	Multiply mod	-	1	-	-	-	-
	≤ 7 services in the 2hr AM peak both ways	Multiply mod 0.5	e score by	0.5	-	-	6	3
•	res for each mode corridor, to produce a total F	Public Transport S	core				Total	31
5. Determine walking proximity	Determine the Centre Score, using the following	ing scores:						
of site to a centre	Within 800m of boundary of existing Global/R	egional City	Score =60	60		1		60
(as defined in the Metropolitan	Within 800m of boundary of existing/developi	ing Major Centre	Score =40	40		-		-
Strategy)	Within 800m of boundary of existing/developing Centre and Specialised Centre	20		-		-		
produce a total Acce	Insport Score from Step 4. above to Centre Sco ssibility Score to convert the Accessibility Score to the Acces	•	·					91

Therefore, the accessibility score of the Pyrmont site is 91, which corresponds to the accessibility discount factor of 0.9.

2.12.3 Summary of Resident Questionnaire Response

A trip generation questionnaire was distributed to the residents of the Wollongong residential development. A total of 262 surveys were distributed over two days (weekday and Saturday) to the 131 dwellings in the building, with 48 survey responses received (including interviews) for the entire surveyed period. In order to achieve a representative sample of residents (survey confidence level of 95% with a margin of error of 5%), 156 responses would need to have been collected as part of the survey. Although a representative sample has not been achieved, the following general trends in the survey questionnaires were observed:

- ▶ The typical dwelling occupancy of survey respondents was 2 per-dwelling.
- ▶ The parking provision for respondents ranged between 0 and 2, with the most common being 1 parking space per-dwelling.
- ▶ The number of bedrooms per-dwelling for respondents ranged between 1 and 3, with the most common being 1bedrooms per-dwelling.
- ▶ The typical number of trips (two-way) per-day per-unit for respondents was 1.
- ▶ The most common mode of transport for respondents was walk.
- ▶ The typical visitation mode for non-resident visitors was car (driver).
- The peak trip generating periods for respondents was 12 PM to 5 PM
- The typical duration of the walk component of public transport related trips made by respondents was 0 to 5 minutes.
- ▶ The typical duration of walk-only trips made by respondents was 11 to 15 minutes.

A more detailed summary of the survey questionnaire responses are provided in Appendix A.

- 3. Survey Results
- 3.1 Traffic Survey Results
- 3.1.1 Site 1: 13 Herbert Street, St Leonards

Table 22 - Site 1 Survey Results (Weekday Hourly)

	٧	Commo ehicle	s		ccupar		\	mmero /ehicle	s		ccupar			ıl Vehi		pe	tal Per includ destria	e ins)	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN		TOTAL	de
6:00 - 7:00	0	5	5	0	6	6	0	0	0	0	0	0	0	5	5	4	11	15	0
6:15 - 7:15	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	4	13	17	0
6:30 - 7:30 6:45 - 7:45	0	2 1	2	0	3	3	0	0	0	0	0	0	0	<u>2</u> 1	2	2	11 15	13	0
7:00 - 8:00	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	4	17	21	0
7:15 - 8:15	1	6	7	1	7	8	0	0	0	0	0	0	1	6	7	6	23	29	0
7:30 - 8:30	2	8	10	2	10	12	0	0	0	0	0	0	2	8	10	7	32	39	0
7:45 - 8:45	2	11	13	2	16	18	0	0	0	0	0	0	2	11	13	7	40	47	0
8:00 - 9:00	2	8	10	2	13	15	0	0	0	0	0	0	2	8	10	4	41	45	0
8:15 - 9:15	1	8	9	1	12	13	0	0	0	0	0	0	1	8	9	2	43	45	0
8:30 - 9:30	2	7	9	2	10	12	0	0	0	0	0	0	2	7	9	3	39	42	0
8:45 - 9:45	6	5	11	6	7	13	0	0	0	0	0	0	6	5	11	8	34	42	0
9:00 - 10:00	6	6 4	12	6	8	14 12	0	0	0	0	0	0	6	6	12	10	33 26	43 37	0
9:15 - 10:15 9:30 - 10:30	6	3	10 7	4	5	9	0	0	0	0	0	0	6	3	10 7	11 10	26	31	0
9:45 - 10:45	0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	7	13	20	0
10:00 - 11:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	5	12	17	0
10:15 - 11:15	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	6	12	18	0
10:30 - 11:30	1	2	3	1	3	4	0	0	0	0	0	0	1	2	3	8	11	19	0
10:45 - 11:45	2	2	4	2	3	5	0	0	0	0	0	0	2	2	4	7	10	17	0
11:00 - 12:00	3	2	5	3	3	6	0	0	0	0	0	0	3	2	5	10	13	23	0
11:15 - 12:15	3	0	3	3	0	3	0	0	0	0	0	0	3	0	3	10	10	20	0
11:30 - 12:30	2	0	2	2	1	3	0	0	0	0	0	0	2	0	2	9	12	21	0
11:45 - 12:45	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	8	17	25	0
12:00 - 13:00	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	10 9	14	24	0
12:15 - 13:15 12:30 - 13:30	1	2	3	1	1	2	0	0	0	0	0	0	1	2	3	8	16	24	0
12:45 - 13:45	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	10	12	22	0
13:00 - 14:00	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	7	10	17	0
13:15 - 14:15	2	0	2	2	0	2	0	0	0	0	0	0	2	0	2	7	10	17	0
13:30 - 14:30	2	1	3	2	1	3	0	0	0	0	0	0	2	1	3	6	11	17	0
13:45 - 14:45	2	1	3	2	1	3	0	0	0	0	0	0	2	1	3	5	11	16	0
14:00 - 15:00	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	4	10	14	0
14:15 - 15:15	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	4	8	12	0
14:30 - 15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	9	0
14:45 - 15:45 15:00 - 16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	9	0
15:00 - 16:00 15:15 - 16:15	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	10	7	12	0
15:30 - 16:30	2	1	3	2	1	3	0	0	0	0	0	0	2	1	3	12	9	21	0
15:45 - 16:45	3	1	4	3	1	4	0	0	0	0	0	0	3	1	4	14	10	24	0
16:00 - 17:00	3	2	5	3	2	5	0	0	0	0	0	0	3	2	5	15	10	25	0
16:15 - 17:15	4	3	7	5	4	9	0	0	0	0	0	0	4	3	7	19	9	28	0
16:30 - 17:30	2	4	6	3	5	8	0	0	0	0	0	0	2	4	6	21	8	29	0
16:45 - 17:45	2	4	6	3	5	8	0	0	0	0	0	0	2	4	6	20	10	30	0
17:00 - 18:00	2	3	5	3	4	7	0	0	0	0	0	0	2	3	5	24	14	38	0
17:15 - 18:15	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	20	13	33	0
17:30 - 18:30	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	17	17	34	0
17:45 - 18:45 18:00 - 19:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	17 19	18 14	35 33	0
Peak	6	11	13	6	16	18	0	0	0	0	0	0	6	11	13	24	43	47	0
ı can	Ű	- 11	10	Ű	10	10	U	U	U	U	U	U	U	- 11	10	24	40	41	U

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road

Evening Peak Hour on Adjacent Road



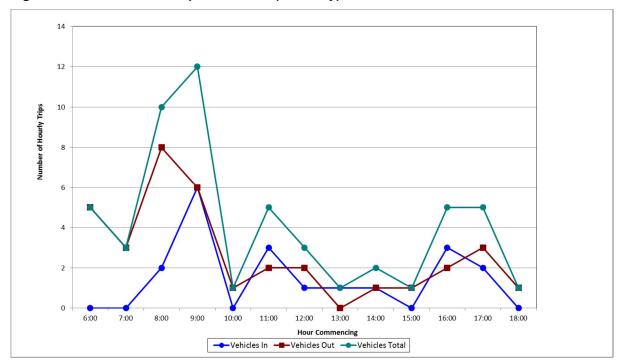


Figure 15 - Site 1 Person Trip Generation (Weekday)

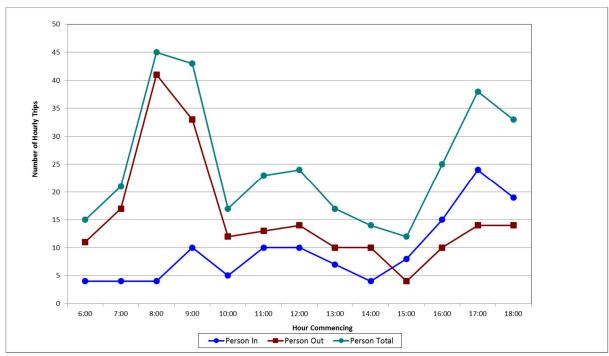


Table 23 - Site 1 Survey Results (Saturday Hourly)

		Comme ehicle	s	Od	ccupar			mmero /ehicle	es	Occupants Total Vehicles				(tal Per includ destria	e ins)	Visito rs Cars Outsi		
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	de
8:00 - 9:00	2	9	11	2	12	14	1	0	1	1	0	1	3	9	12	8	23	31	0
8:15 - 9:15	1	7	8	1	10	11	1	0	1	1	0	1	2	7	9	6	21	27	0
8:30 - 9:30	1	8	9	1	10	11	1	0	1	1	0	1	2	8	10	8	24	32	0
8:45 - 9:45	0	6	6	0	8	8	1	0	1	1	0	1	1	6	7	12	32	44	0
9:00 - 10:00	1	7	8	2	10 11	12 13	0	0	0	0	0	0	1	7	8	18 35	46 57	64 92	0
9:15 - 10:15 9:30 - 10:30	1	8	9	2	14	16	0	1	1	0	1	1	1	9	10	50	68	118	0
9:45 - 10:45	2	9	11	5	16	21	0	1	1	0	1	1	2	10	12	66	74	140	0
10:00 - 11:00	1	11	12	3	20	23	0	1	1	0	1	1	1	12	13	79	87	166	0
10:15 - 11:15	2	12	14	5	21	26	0	0	0	0	0	0	2	12	14	92	109	201	0
10:30 - 11:30	2	13	15	5	25	30	0	0	0	0	0	0	2	13	15	90	127	217	0
10:45 - 11:45	4	15	19	6	26	32	0	0	0	0	0	0	4	15	19	79	115	194	0
11:00 - 12:00	6	14	20	9	23	32	0	0	0	0	0	0	6	14	20	65	93	158	0
11:15 - 12:15	7	15	22	11	24	35	0	0	0	0	0	0	7	15	22	38	68	106	0
11:30 - 12:30	8	14	22	12	19	31	0	0	0	0	0	0	8	14	22	24	38	62	0
11:45 - 12:45	6	11	17	9	15	24	0	0	0	0	0	0	6	11	17	18	31	49	0
12:00 - 13:00	6	11	17	10	16	26	0	0	0	0	0	0	6	11	17	15	29	44	0
12:15 - 13:15	4	8	12	6	11	17	0	0	0	0	0	0	4	8	12	13	21	34	0
12:30 - 13:30	5	6	11	9	9	18	0	0	0	0	0	0	5	6	11	19	18	37	0
12:45 - 13:45	6	7	13	11	12	23	0	0	0	0	0	0	6	7	13	21	21	42	0
13:00 - 14:00	4	5	9	7	9	16	0	0	0	0	0	0	4	5	9	21	19	40	0
13:15 - 14:15	7	6	13	11	11	22	0	0	0	0	0	0	7	6	13	26	23	49	0
13:30 - 14:30	7	7	14	10	12	22	0	0	0	0	0	0	7	7	14	21	26	47	0
13:45 - 14:45	5	6	11	7	10	17	0	0	0	0	0	0	5	6	11	23	22	45	0
14:00 - 15:00 14:15 - 15:15	7 5	7 6	14	11 9	11 10	22 19	0	0	0	0	0	0	7 5	7 6	14	30 31	25 22	55 53	0
14:15 - 15:15 14:30 - 15:30	5	6	11	9	11	20	0	0	0	0	0	0	5	6	11	32	21	53	0
14:45 - 15:45	6	6	12	11	11	22	0	0	0	0	0	0	6	6	12	28	21	49	0
15:00 - 16:00	6	6	12	10	11	21	0	0	0	0	0	0	6	6	12	21	23	44	0
15:15 - 16:15	7	8	15	12	13	25	0	0	0	0	0	0	7	8	15	19	24	43	0
15:30 - 16:30	6	6	12	10	9	19	0	0	0	0	0	0	6	6	12	20	19	39	0
15:45 - 16:45	7	7	14	12	11	23	0	0	0	0	0	0	7	7	14	22	23	45	0
16:00 - 17:00	7	6	13	12	10	22	0	0	0	0	0	0	7	6	13	21	19	40	0
16:15 - 17:15	6	5	11	10	10	20	0	0	0	0	0	0	6	5	11	22	25	47	0
16:30 - 17:30	6	8	14	11	16	27	0	0	0	0	0	0	6	8	14	25	31	56	0
16:45 - 17:45	6	8	14	12	17	29	0	0	0	0	0	0	6	8	14	28	35	63	0
17:00 - 18:00	5	9	14	11	19	30	0	0	0	0	0	0	5	9	14	35	37	72	0
Peak	8	15	22	12	26	35	1	1	1	1	1	1	8	15	22	92	127	217	0

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road



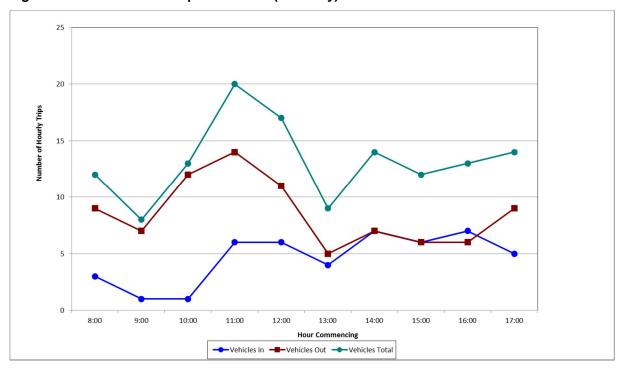
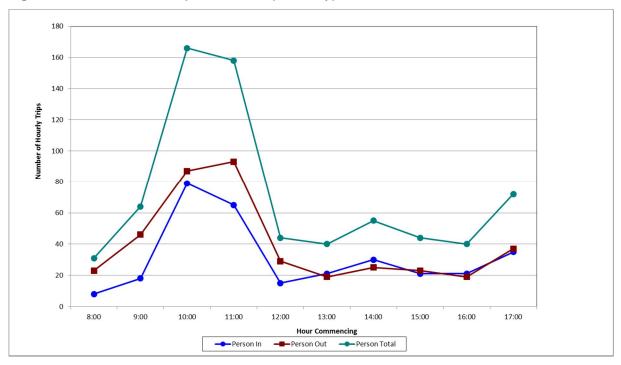


Figure 17 - Site 1 Person Trip Generation (Saturday)



3.1.2 Site 2: 1 Cambridge Lane, Chatswood

Table 24 - Site 2 Survey Results (Weekday Hourly)

		V	Comme ehicle	es		ccupai		\	mmero /ehicle	s		ccupaı			ıl Vehi		To: (pe	Visito rs Cars Outsi		
		IN		TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 -	7:00	2	1	3	2	2	4	0	0	0	0	0	0	2	1	3	7	10	17	2
6:15 - 6:30 -	7:15 7:30	0	2 4	2 5	0	4 6	7	0	0	0	0	0	0	0	2	2 5	5 6	16 25	21 31	2
6:45 -	7:45	4	6	10	4	7	11	0	0	0	0	0	0	4	6	10	8	38	46	2
7:00 -	8:00	4	9	13	4	10	14	0	0	0	0	0	0	4	9	13	8	46	54	5
7:15 -	8:15	5	13	18	5	16	21	0	0	0	0	0	0	5	13	18	11	55	66	5
7:30 -	8:30	5	14	19	5	17	22	0	0	0	0	Ö	0	5	14	19	15	55	70	8
7:45 -	8:45	2	11	13	2	14	16	0	0	0	0	0	0	2	11	13	12	54	66	10
8:00 -	9:00	6	12	18	7	18	25	0	0	0	0	0	0	6	12	18	18	65	83	7
8:15 -	9:15	5	10	15	6	16	22	0	0	0	0	0	0	5	10	15	19	74	93	11
8:30 -	9:30	5	9	14	6	15	21	0	0	0	0	0	0	5	9	14	18	79	97	12
8:45 -	9:45	7	11	18	8	18	26	0	0	0	0	0	0	7	11	18	21	71	92	12
9:00 -	10:00	3	8	11	3	12	15	0	0	0	0	0	0	3	8	11	16	58	74	12
9:15 -	10:15	3	6	9	3	8	11	0	0	0	0	0	0	3	6	9	12	42	54	7
9:30 -	10:30	2	4	6	2	6	8	0	0	0	0	0	0	2	3	6	12	32 22	44	3
9:45 - 10:00 -	10:45 11:00	0	3 6	7	0	10	12	0	0	0	0	0	0	0	6	7	8 12	23	30 35	3
10:00 -	11:15	1	8	9	2	12	14	0	0	0	0	0	0	1	8	9	17	23	41	7
10:13 -	11:30	5	8	13	11	12	23	0	0	0	0	0	0	5	8	13	23	27	50	8
10:45 -	11:45	6	7	13	13	11	24	0	0	0	0	0	0	6	7	13	28	27	55	6
11:00 -	12:00	6	4	10	13	5	18	0	0	0	0	0	0	6	4	10	31	28	59	7
11:15 -	12:15	8	1	9	20	1	21	0	0	0	0	0	0	8	1	9	36	31	67	6
11:30 -	12:30	9	3	12	19	4	23	0	0	0	0	0	0	9	3	12	41	38	79	6
11:45 -	12:45	9	3	12	18	4	22	0	0	0	0	0	0	9	3	12	40	45	85	6
12:00 -	13:00	8	2	10	16	3	19	0	0	0	0	0	0	8	2	10	34	37	71	6
12:15 -	13:15	7	3	10	10	4	14	0	0	0	0	0	0	7	3	10	25	30	55	6
12:30 -	13:30	4	2	6	4	3	7	0	0	0	0	0	0	4	2	6	12	20	32	6
12:45 -	13:45	4	4	8	4	5	9	0	0	0	0	0	0	4	4	8	15	19	34	7
13:00 -	14:00	5	6	11	5	7	12	0	0	0	0	0	0	5	6	11	16	25	41	4
13:15 - 13:30 -	14:15 14:30	7	5 5	12 11	7	6 5	13 11	0	0	0	0	0	0		5 5	12 11	36	24 25	48 61	2 4
13:45 -	14:45	6	5	11	8	6	14	0	0	0	0	0	0	6	5	11	39	23	62	3
14:00 -	15:00	6	4	10	9	6	15	0	0	0	0	0	0	6	4	10	44	21	65	5
14:15 -	15:15	4	7	11	8	11	19	0	0	0	0	0	0	4	7	11	42	36	78	7
14:30 -	15:30	3	9	12	7	15	22	0	0	0	0	0	0	3	9	12	35	40	75	9
14:45 -	15:45	5	8	13	9	13	22	0	0	0	0	0	0	5	8	13	39	40	79	10
15:00 -	16:00	5	8	13	8	12	20	0	0	0	0	0	0	5	8	13	57	43	100	8
15:15 -	16:15	6	7	13	8	9	17	0	0	0	0	0	0	6	7	13	64	39	103	9
15:30 -	16:30	7	5	12	10	6	16	0	0	0	0	0	0	7	5	12	63	36	99	5
15:45 -	16:45	9	6	15	14	9	23	0	0	0	0	0	0	9	6	15	71	44	115	7
16:00 -	17:00	9	6	15	15	9	24	0	0	0	0	0	0	9	6	15	63	43	106	10
16:15 -	17:15	9	6	15 17	17	11	28	0	0	0	0	0	0	9	6	15 17	66	36	102	10 12
16:30 - 16:45 -	17:30 17:45	12 9	5 4	17	25 18	9	34 25	0	0	0	0	0	0	12 9	5 4	17	89 77	38 34	127 111	12
17:00 -	18:00	10	3	13	18	6	24	0	0	0	0	0	0	10	3	13	86	31	117	10
17:00 -	18:15	13	3	16	25	6	31	0	0	0	0	0	0	13	3	16	92	37	129	10
17:30 -	18:30	15	4	19	23	7	30	0	0	0	0	0	0	15	4	19	87	33	120	10
17:45 -	18:45	17	8	25	29	12	41	0	0	0	0	0	0	17	8	25	94	35	129	12
18:00 -	19:00	16	9	25	29	14	43	0	0	0	0	0	0	16	9	25	81	41	122	12
Peak		17	14	25	29	18	43	0	0	0	0	0	0	17	14	25	94	79	129	12

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road

Evening Peak Hour on Adjacent Road



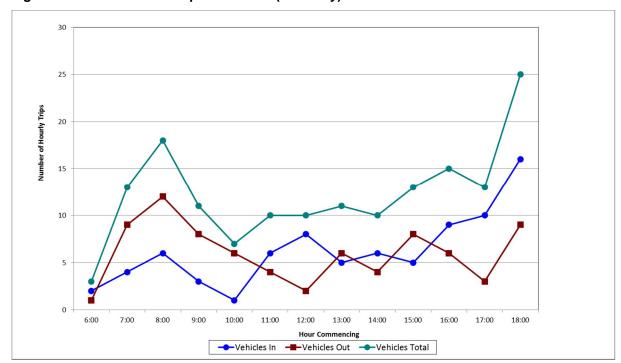


Figure 19 - Site 2 Person Trip Generation (Weekday)

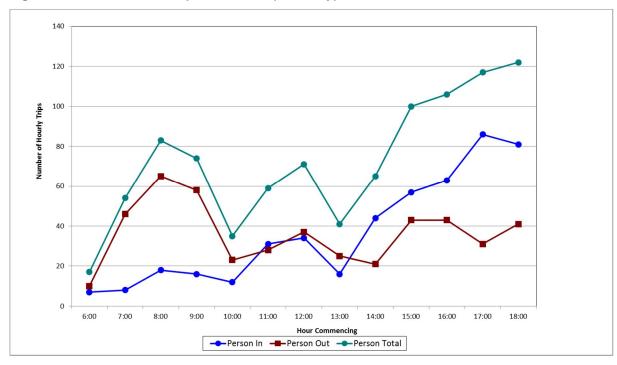


Table 25 - Site 2 Survey Results (Saturday Hourly)

			Comme ehicle	s	0	ccupar			mmero /ehicle	es	Occupants			Tota	ıl Vehi	cles	Tot (pe	Visito rs Cars Outsi		
		IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	_	TOTAL	de
6:00 -	7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 -	7:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 -	7:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 -	7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 - 7:15 -	8:00 8:15	0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	0	2	2	4
7:30 -	8:30	0	5	5	0	6	6	0	0	0	0	0	0	0	5	5	3	11	14	9
7:45 -	8:45	0	11	11	0	12	12	0	0	0	0	0	0	0	11	11	3	21	24	16
8:00 -	9:00	0	14	14	0	15	15	0	0	0	0	0	0	0	14	14	5	28	33	23
8:15 -	9:15	2	13	15	2	14	16	0	0	0	0	Ö	0	2	13	15	16	35	51	26
8:30 -	9:30	2	13	15	2	14	16	2	0	2	2	0	2	4	13	17	17	37	54	27
8:45 -	9:45	4	8	12	4	9	13	2	0	2	2	0	2	6	8	14	22	38	60	25
9:00 -	10:00	6	7	13	7	12	19	2	0	2	2	0	2	8	7	15	24	60	84	24
9:15 -	10:15	6	7	13	7	12	19	2	2	4	2	2	4	8	9	17	17	66	83	23
9:30 -	10:30	8	8	16	10	15	25	0	2	2	0	2	2	8	10	18	24	72	96	23
9:45 -	10:45	12	9	21	20	16	36	0	2	2	0	2	2	12	11	23	38	69	107	25
10:00 -	11:00	10	10	20	17	16	33	0	2	2	0	2	2	10	12	22	37	51	88	26
10:15 -	11:15	11	11	22	19	17	36	0	0	0	0	0	0	11	11	22	44	43	87	27
10:30 -	11:30	11	10	21	22	17	39	0	0	0	0	0	0	11	10	21	50	42	92	28
10:45 -	11:45	8	17	25	15	23	38	0	0	0	0	0	0	8	17	25	52	55	107	28
11:00 - 11:15 -	12:00 12:15	9	18 16	27 23	16 13	24 22	40 35	0	0	0	0	0	0	9 7	18 16	27 23	62 64	62 64	124 128	28 28
11:15 -	12:15	12	14	26	15	16	31	0	0	0	0	0	0	12	14	26	65	52	117	28
11:45 -	12:45	10	10	20	11	17	28	0	0	0	0	0	0	10	10	20	51	48	99	28
12:00 -	13:00	13	7	20	19	14	33	1	0	1	1	0	1	14	7	21	51	41	92	28
12:15 -	13:15	16	9	25	23	16	39	1	0	1	3	0	3	17	9	26	48	38	86	28
12:30 -	13:30	14	9	23	20	17	37	1	1	2	3	2	5	15	10	25	45	43	88	28
12:45 -	13:45	13	5	18	19	10	29	1	1	2	3	2	5	14	6	20	43	35	78	28
13:00 -	14:00	9	5	14	10	9	19	0	1	1	2	2	4	9	6	15	32	34	66	28
13:15 -	14:15	9	3	12	13	7	20	0	1	1	0	2	2	9	4	13	44	41	85	28
13:30 -	14:30	5	6	11	12	14	26	0	0	0	0	0	0	5	6	11	51	46	97	28
13:45 -	14:45	7	8	15	15	16	31	1	1	2	1	1	2	8	9	17	62	48	110	27
14:00 -	15:00	10	10	20	20	19	39	1	1	2	1	1	2	11	11	22	77	55	132	26
14:15 -	15:15	7	11	18	14	22	36	1	1	2	1	1	2	8	12	20	66	58	124	25
14:30 -	15:30	7 5	9	16	11	17 17	28	1	1	2	1	0	0	8	10	18	51	54	105	22
14:45 - 15:00 -	15:45 16:00	6	8	13 14	8 8	16	25 24	0	0	0	0	0	0	5	8	13 14	55 59	58 56	113	20 20
15:00 -	16:00	8	8	16	12	14	26	0	0	0	0	0	0	8	8	16	59	41	100	20
15:30 -	16:30	8	8	16	12	13	25	0	0	0	0	0	0	8	8	16	64	41	105	22
15:45 -	16:45	9	9	18	13	13	26	0	0	0	0	0	0	9	9	18	51	42	93	23
16:00 -	17:00	9	10	19	17	14	31	0	0	0	0	0	0	9	10	19	57	45	102	21
16:15 -	17:15	8	9	17	13	13	26	0	1	1	0	1	1	8	10	18	58	56	114	20
16:30 -	17:30	10	8	18	17	14	31	0	1	1	0	1	1	10	9	19	65	57	122	19
16:45 -	17:45	10	7	17	17	14	31	0	1	1	0	1	1	10	8	18	76	49	125	20
17:00 -	18:00	8	4	12	13	10	23	0	1	1	0	1	1	8	5	13	59	38	97	22
Peak		16	18	27	23	24	40	2	2	4	3	2	5	17	18	27	77	72	132	28

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road

Figure 20 - Site 2 Vehicle Trip Generation (Saturday)

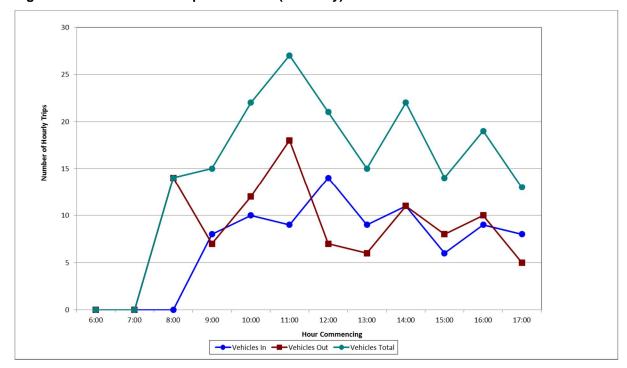
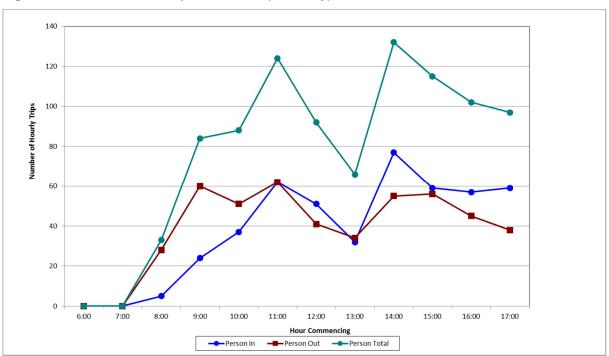


Figure 21 - Site 2 Vehicle Trip Generation (Saturday)



3.1.3 Site 3: 8-12 Waratah Street, Cronulla

Table 26 - Site 3 Survey Results (Weekday Hourly)

		-Comm Vehicle	es		ccupai		\	mmero /ehicle	es		ccupa			al Vehi		Tot (pe	Visito rs Cars Outsi		
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 - 7:00 6:15 - 7:15		2	2	0 0	2	2	0 0	0	0	0	0	0	0	2	2	3	8	9	6 9
6:30 - 7:30		1	1	0	1	1	0	0	0	0	0	0	0	1	1	4	3	7	12
6:45 - 7:45		+ i	1	0	1	1	0	0	0	0	0	0	0	1	1	6	3	9	13
7:00 - 8:00		1	1	0	1	1	0	0	0	0	0	0	0	1	1	7	5	12	14
7:15 - 8:15		1	1	0	1	1	0	0	0	0	0	0	0	1	1	5	6	11	14
7:30 - 8:30	0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	5	7	12	14
7:45 - 8:45		2	2	0	2	2	0	0	0	0	0	0	0	2	2	3	8	11	14
8:00 - 9:00		2	2	0	2	2	0	0	0	0	0	0	0	2	2	2	7	9	14
8:15 - 9:15		1	1	0	1	1	0	0	0	0	0	0	0	1	1	2	5	7	13
8:30 - 9:30 8:45 - 9:45		0	1	1	0	1	0	0	0	0	0	0	1	0	1	1 2	5	6 5	13 14
9:00 - 10:00		0	1	1	0	1	0	0	0	0	0	0	1	0	1	2	2	4	15
9:15 - 10:1		0	1	1	0	1	0	0	0	0	0	0	1	0	1	3	2	5	17
9:30 - 10:30	-	1	1	0	1	1	0	0	0	0	0	0	0	1	1	2	1	3	18
9:45 - 10:4		1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	2	19
10:00 - 11:0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	2	20
10:15 - 11:1	5 0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	1	2	3	20
10:30 - 11:30		2	3	1	2	3	0	0	0	0	0	0	1	2	3	3	2	5	18
10:45 - 11:4		3	4	1	3	4	0	0	0	0	0	0	1	3	4	3	3	6	15
11:00 - 12:0		3	4	1	3	4	0	0	0	0	0	0	1	3	4	3	3	6	13
11:15 - 12:1		2	3	1	2	3	0	0	0	0	0	0	0	2	3	0	2	2	11
11:30 - 12:30 11:45 - 12:4		1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	12
12:00 - 13:0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	11
12:15 - 13:1		1	1	0	1	1	0	0	0	0	0	0	0	1	1	3	2	5	10
12:30 - 13:30		2	4	3	2	5	0	0	0	0	0	0	2	2	4	6	2	8	9
12:45 - 13:4	5 2	2	4	3	2	5	0	0	0	0	0	0	2	2	4	5	2	7	9
13:00 - 14:00	0 4	3	7	5	3	8	0	0	0	0	0	0	4	3	7	9	7	16	12
13:15 - 14:1		2	6	5	2	7	0	0	0	0	0	0	4	2	6	10	8	18	15
13:30 - 14:3		1	3	2	1	3	0	0	0	0	0	0	2	1	3	8	8	16	18
13:45 - 14:4		1	4	3	1	4	0	0	0	0	0	0	3	1	4	9	8	17	20
14:00 - 15:00 14:15 - 15:1		0	1	1	0	1	0	0	0	0	0	0	1	0	1	3	3	7	20 18
14:15 - 15:15		0	1	1	0	1	0	0	0	0	0	0	1	0	1	2	1	3	16
14:45 - 15:4		0	1	1	0	1	0	0	0	0	0	0	1	0	1	1	2	3	14
15:00 - 16:0	-	0	2	2	0	2	0	0	0	0	0	0	2	0	2	6	3	9	12
15:15 - 16:1		0	2	2	0	2	0	0	0	0	0	0	2	0	2	6	4	10	13
15:30 - 16:30		0	2	2	0	2	0	0	0	0	0	0	2	0	2	9	3	12	13
15:45 - 16:4		0	1	1	0	1	0	0	0	0	0	0	1	0	1	8	2	10	13
16:00 - 17:0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7	13
16:15 - 17:1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	6	12
16:30 - 17:30 16:45 - 17:4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3 5	9	12 12
17:00 - 18:00		0	2	2	0	2	0	0	0	0	0	0	2	0	2	7	5	12	11
17:15 - 18:1	_	0	2	2	0	2	0	0	0	0	0	0	2	0	2	8	5	13	10
17:30 - 18:30		0	2	2	0	2	0	0	0	0	0	0	2	0	2	3	4	7	9
17:45 - 18:4		0	4	4	0	4	0	0	0	0	0	0	4	0	4	5	2	7	8
18:00 - 19:0		0	3	3	0	3	0	0	0	0	0	0	3	0	3	4	0	4	8
Peak	4	3	7	5	3	8	0	0	0	0	0	0	4	3	7	10	8	18	20

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road

Evening Peak Hour on Adjacent Road



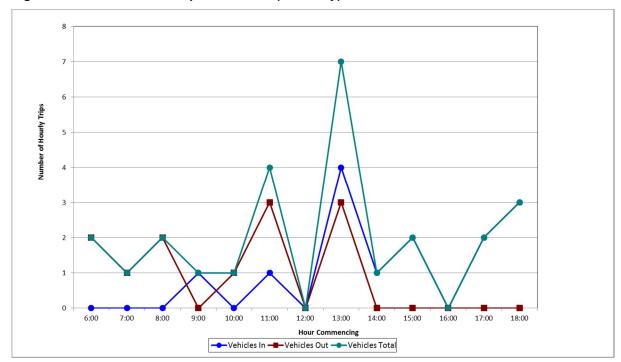


Figure 23 - Site 3 Person Trip Generation (Weekday)

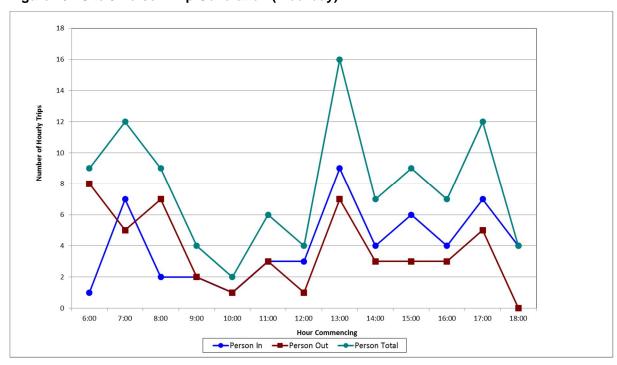


Table 27 - Site 3 Survey Results (Saturday Hourly)

		Comme /ehicle		O	ccupar	nts		mmero /ehicle		0	ccupar	nts	Tota	ıl Vehi		Tot (pe	Visito rs Cars Outsi		
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN		TOTAL	de
8:00 - 9:00	2	1	3	2	1	3	0	0	0	0	0	0	2	1	3	8	3	11	11
8:15 - 9:15	2	2	4	2	4	6	0	0	0	0	0	0	2	2	4	4	6	10	10
8:30 - 9:30	2	2	4	2	4	6	0	0	0	0	0	0	2	2	4	5	10	15	9
8:45 - 9:45	0	3	3	0	5	5	0	0	0	0	0	0	0	3	3	4	14	18	8
9:00 - 10:00 9:15 - 10:15	1	4	5 3	2	6	8	0	0	0	0	0	0	1	4	5	7 6	16	23 17	8
9:15 - 10:15 9:30 - 10:30	1	2	3	2	2	4	0	0	0	0	0	0	1	2	3	4	7	11	8
9:45 - 10:45	1	1	2	2	1	3	0	0	0	0	0	0	1	1	2	6	3	9	10
10:00 - 11:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	4	2	6	11
10:15 - 11:15	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	5	2	7	12
10:30 - 11:30	0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	7	5	12	12
10:45 - 11:45	0	3	3	0	4	4	0	0	0	0	0	0	0	3	3	4	7	11	11
11:00 - 12:00	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	6	5	11	12
11:15 - 12:15	1	2	3	2	3	5	0	0	0	0	0	0	1	2	3	8	5	13	13
11:30 - 12:30	1	2	3	2	3	5	0	0	0	0	0	0	1	2	3	8	3	11	16
11:45 - 12:45	1	1	2	2	1	3	0	0	0	0	0	0	1	1	2	10	2	12	19
12:00 - 13:00	1	2	3	2	3	5	0	0	0	0	0	0	1	2	3	7	8	15	19
12:15 - 13:15	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	4	10	14	19
12:30 - 13:30	0	1	1	0	2	2	0	0	0	0	0	0	0	1	1	4	11	15	15
12:45 - 13:45	1	1	2	2	2	4	0	0	0	0	0	0	1	1	2	4	10	14	10
13:00 - 14:00	1	0	1	2	0	2	0	0	0	0	0	0	1	0	1	4	4	8	7
13:15 - 14:15	1	0	1	2	0	2	0	0	0	0	0	0	1	0	1	5	2	7	5
13:30 - 14:30	1	0	1	2	0	2	0	0	0	0	0	0	1	0	1	4	0	4	6
13:45 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	6	8
14:00 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	10	11
14:15 - 15:15	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	8	4	12	12
14:30 - 15:30	1	1	2	1	3	4	0	0	0	0	0	0	1	1	2	13	7	20	13
14:45 - 15:45	1	1	2	1	3	4	0	0	0	0	0	0	1	1	2	10	6	16	13
15:00 - 16:00 15:15 - 16:15	1	1	2	1	3	3	0	0	0	0	0	0	0	1	2	7 10	7 5	14 15	12 15
	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	6	5	11	18
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	12	21
15:45 - 16:45 16:00 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	12	24
16:00 - 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	11	22
16:30 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	20
16:45 - 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	17
17:00 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	14
Peak	2	4	5	2	6	8	0	0	0	0	0	0	2	4	5	13	16	23	24
1 Jun			, ,				_		. •						ŭ	10			

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road



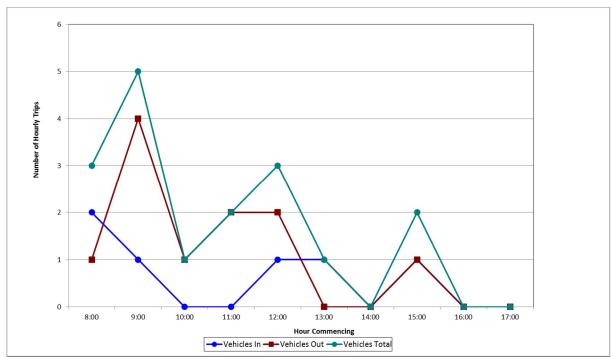
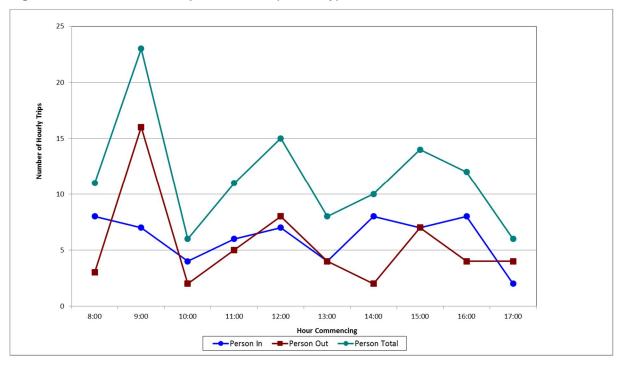


Figure 25 – Site 3 Person Trip Generation (Saturday)



3.1.4 Site 4: 2-8 Ashton Road, Rockdale

Table 28 - Site 4 Survey Results (Weekday Hourly, All Accesses)

		V	Comme ehicle	s	Occupants			Commercial Vehicles			Occupants				al Vehi		Tot (pe	Visito rs Cars Outsi		
		IN	OUT	TOTAL	IN			IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 -	7:00	8	22	30	12	39	51	0	1	1	0	2	2	8	23	31	26	56	82	10
6:15 - 6:30 -	7:15 7:30	12 19	24 27	36 46	18 29	43 48	61 77	0	1 2	1 2	0	3	2	12 19	25 29	37 48	35 46	70 77	105 123	14 16
6:45 -	7:30	17	36	53	23	61	84	0	2	2	0	3	3	17	38	55	45	95	140	17
7:00 -	8:00	18	48	66	25	75	100	0	2	2	0	2	2	18	50	68	43	121	164	17
7:15 -	8:15	16	52	68	21	81	102	0	2	2	0	2	2	16	54	70	41	148	189	20
7:30 -	8:30	12	54	66	14	84	98	0	1	1	0	1	1	12	55	67	32	157	189	23
7:45 -	8:45	18	57	75	20	82	102	0	1	1	0	1	1	18	58	76	35	159	194	24
8:00 -	9:00	21	54	75	22	77	99	1	0	1	0	0	0	22	54	76	39	150	189	25
8:15 -	9:15	23	50	73	26	71	97	1	0	1	0	0	0	24	50	74	40	134	174	23
8:30 -	9:30	24	42	66	27	59	86	1	1	2	0	1	1	25	43	68	47	119	166	22
8:45 -	9:45	18	32	50	21	50	71	1	1	2	0	1	1	19	33	52	46	108	154	22
9:00 -	10:00	16	22	38	19	33	52	0	2	2	0	2	2	16	24	40	48	82	130	22
9:15 -	10:15	12	22	34	13	29	42	0	2	2	0	2	2	12	24	36	40	65	105	24
9:30 -	10:30	10	22	32	11	26	37	0	1	1	0	1	1	10	23	33	39	67	106	24
9:45 -	10:45	9	20	29	11	22	33	0	2	2	0	2	2	9	22	31	35	57	92	22
10:00 -	11:00	6	22	28	8	27	35	0	1	1	0	1	1	6	23	29	29	65	94	27
10:15 -	11:15	6	21	27 23	8	31	39 35	0	1 2	1 2	0	1 2	1 2	6	22 19	28	31 22	65 53	96	30 32
10:30 -	11:30	6 7	17 15	23	7 8	28 26	35	0	1		0	1	1	7	16	25 23	24	56	75 80	34
11:00 -	11:45 12:00	10	15	25	14	23	37	0	1	1	0	1	1	10	16	26	30	52	82	30
11:15 -	12:15	15	12	27	20	15	35	0	1	1	0	1	1	15	13	28	30	44	74	24
11:30 -	12:30	19	17	36	24	21	45	0	0	0	0	0	0	19	17	36	38	48	86	21
11:45 -	12:45	21	22	43	27	29	56	0	0	0	0	0	0	21	22	43	43	52	95	21
12:00 -	13:00	21	17	38	27	24	51	0	0	0	0	0	0	21	17	38	42	37	79	19
12:15 -	13:15	17	19	36	22	27	49	0	0	0	0	0	0	17	19	36	40	41	81	20
12:30 -	13:30	15	16	31	21	26	47	0	0	0	0	0	0	15	16	31	36	38	74	21
12:45 -	13:45	11	17	28	15	23	38	0	0	0	0	0	0	11	17	28	27	35	62	21
13:00 -	14:00	12	16	28	13	21	34	0	0	0	0	0	0	12	16	28	24	39	63	21
13:15 -	14:15	15	16	31	20	22	42	0	0	0	0	0	0	15	16	31	30	40	70	21
13:30 -	14:30	18	14	32	23	17	40	1	1	2	0	4	4	19	15	34	36	43	79	19
13:45 -	14:45	21	13	34	25	16	41	2	1	3	0	4	4	23	14	37	36	39	75	18
14:00 -	15:00	20	12	32	28	15	43	2	1	3	0	4	4	22	13	35	46	37	83	18
14:15 - 14:30 -	15:15	18 17	11	29 28	22	11	33	2	0	3	0	4 0	4 0	20	12	32 29	50	34	84 95	19 25
14:30 -	15:30 15:45	17	11 8	25	24	11 9	33	0	0	0	0	0	0	18 17	11 8	25	64 71	32	103	25
15:00 -	16:00	18	8	26	23	9	32	1	1	2	0	1	1	19	9	28	81	35	116	26
15:15 -	16:15	17	9	26	21	12	33	2	1	3	2	1	3	19	10	29	89	37	126	25
15:30 -	16:30	15	11	26	18	15	33	2	1	3	2	1	3	17	12	29	73	39	112	23
15:45 -	16:45	19	14	33	24	17	41	2	1	3	2	1	3	21	15	36	81	40	121	26
16:00 -	17:00	21	21	42	28	26	54	1	0	1	2	0	2	22	21	43	81	48	129	25
16:15 -	17:15	25	20	45	35	25	60	0	0	0	0	0	0	25	20	45	76	51	127	27
16:30 -	17:30	27	18	45	40	20	60	1	0	1	1	1	2	28	18	46	103	53	156	32
16:45 -	17:45	30	17	47	42	20	62	1	1	2	1	1	2	31	18	49	102	58	160	30
17:00 -	18:00	26	14	40	38	17	55	1	1	2	1	1	2	27	15	42	106	59	165	30
17:15 -	18:15	27	14	41	40	15	55	11	1	2	1	1	2	28	15	43	111	50	161	31
17:30 -	18:30	24	15	39	33	17	50	0	1	1	0	0	0	24	16	40	85	51	136	27
17:45 -	18:45	<u>25</u>	16	41	38	18	56	0	0	0	0	0	0	25	16	41	92	52	144	29
18:00 -	19:00	25	17	42	40	18	58	1	0	1	1	1	2	26	17	43	79	44	123	32
Peak		30	57	75	42	84	102	2	2	3	2	4	4	31	58	76	111	159	194	34

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road

Evening Peak Hour on Adjacent Road



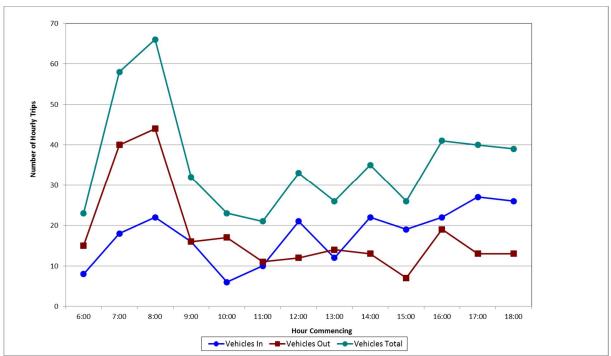
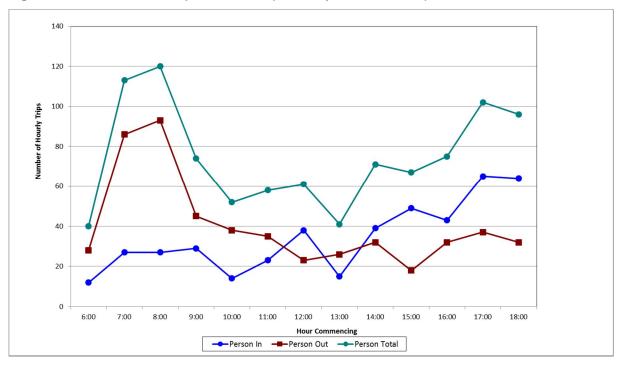


Figure 27 - Site 4 Person Trip Generation (Weekday South Access)





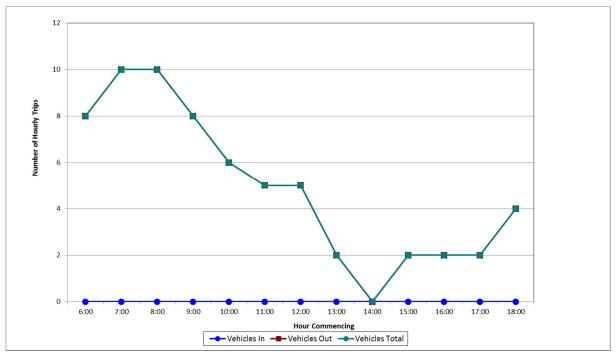


Figure 29 – Site 4 Person Trip Generation (Weekday North Access)

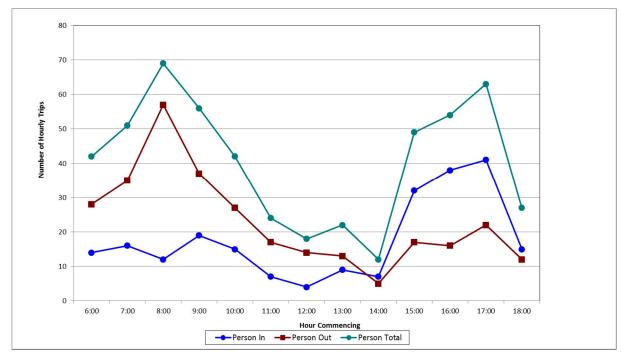
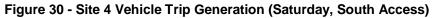


Table 29 - Site 4 Survey Results (Saturday Hourly, All Accesses)

		Comme ehicle	s	0	ccupar			mmero /ehicle	es	0	ccupar		Tota	al Vehi		Tot (pe	Visito rs Cars Outsi		
	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN		TOTAL	de
8:00 - 9:00	4	25	29	5	45	50	0	0	0	0	0	0	4	25	29	29	79	108	28
8:15 - 9:15	9	26	35	11	43	54	0	0	0	0	0	0	9	26	35	31	76	107	32
8:30 - 9:30	11	30	41	15	51	66	0	2	2	0	4	4	11	32	43	37	89	126	36
8:45 - 9:45	13 13	35 28	48 41	17	57	74 57	0	3	3	0	5 5	5 6	13 14	38 31	51 45	32	93	125 117	36 33
9:00 - 10:00 9:15 - 10:15	10	28	37	17	40 38	57	1	4	5	1	6	7	11	31	45	34	83 88	125	29
9:30 - 10:30	11	26	37	15	38	53	1	2	3	1	2	3	12	28	40	42	87	129	28
9:45 - 10:45	17	26	43	24	41	65	1	1	2	1	1	2	18	27	45	59	98	157	27
10:00 - 11:00	20	32	52	29	55	84	0	1	1	0	1	1	20	33	53	68	108	176	28
10:15 - 11:15	19	34	53	29	56	85	0	0	0	0	0	0	19	34	53	69	112	181	31
10:30 - 11:30	20	32	52	30	52	82	0	0	0	0	0	0	20	32	52	69	110	179	31
10:45 - 11:45	12	26	38	19	41	60	0	0	0	0	0	0	12	26	38	60	97	157	31
11:00 - 12:00	12	24	36	20	35	55	0	0	0	0	0	0	12	24	36	74	91	165	29
11:15 - 12:15	12	18	30	18	28	46	0	0	0	0	0	0	12	18	30	71	77	148	28
11:30 - 12:30	13	26	39	22	41	63	0	0	0	0	0	0	13	26	39	71	87	158	28
11:45 - 12:45	12	24	36	20	38	58	0	0	0	0	0	0	12	24	36	63	84	147	29
12:00 - 13:00	9	21	30	14	32	46	0	0	0	0	0	0	9	21	30	41	79	120	32
12:15 - 13:15	11	26	37	17	38	55	0	0	0	0	0	0	11	26	37	42	78	120	31
12:30 - 13:30	12	21	33	15	29	44	0	0	0	0	0	0	12	21	33	44	64	108	33
12:45 - 13:45	17	22	39	22	31	53	0	0	0	0	0	0	17	22	39	56	59	115	33
13:00 - 14:00	19	22	41	25	32	57	0	0	0	0	0	0	19	22	41	57	55	112	30
13:15 - 14:15	24	19	43	34	30	64	0	0	0	0	0	0	24	19	43	69	53	122	27
13:30 - 14:30	27	14	41	38	26	64	1	0	1	1	0	1	28	14	42	70	46	116	24
13:45 - 14:45	27	14	41	39	24	63	1	0	1	1	0	1	28	14	42	66	47	113	22
14:00 - 15:00	28	12	40	43 39	21	64 63	1	0	1	1	0	1	29	12	41 42	73 68	43	116	23
14:15 - 15:15 14:30 - 15:30	27	14 14	36	33	24 20	53	1	0	1	1	0	1	28	14 14	37	63	49 49	117 112	26
14:45 - 15:45	17	13	30	25	20	45	1	0	1	1	0	1	18	13	31	53	49	99	29
15:00 - 16:00	15	14	29	19	22	45	1	0	1	1	0	1	16	14	30	54	52	106	30
15:15 - 16:15	11	13	29	15	17	32	2	0	2	3	0	3	13	13	26	52	44	96	29
15:30 - 16:30	9	16	25	12	24	36	1	0	1	2	0	2	10	16	26	45	42	87	31
15:45 - 16:45	10	22	32	16	33	49	<u></u>	0	1	2	0	2	11	22	33	53	50	103	28
16:00 - 17:00	11	22	33	18	33	51	2	0	2	3	0	3	13	22	35	53	45	98	26
16:15 - 17:15	15	23	38	21	35	56	1	0	1	1	0	1	16	23	39	57	47	104	26
16:30 - 17:30	22	21	43	30	31	61	1	0	1	1	0	1	23	21	44	68	60	128	27
16:45 - 17:45	25	19	44	34	25	59	2	0	2	2	0	2	27	19	46	73	63	136	25
17:00 - 18:00	31	22	53	41	30	71	1	0	1	1	0	1	32	22	54	80	74	154	23
Peak	31	35	53	43	57	85	2	4	5	3	6	7	32	38	54	80	112	181	36

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road



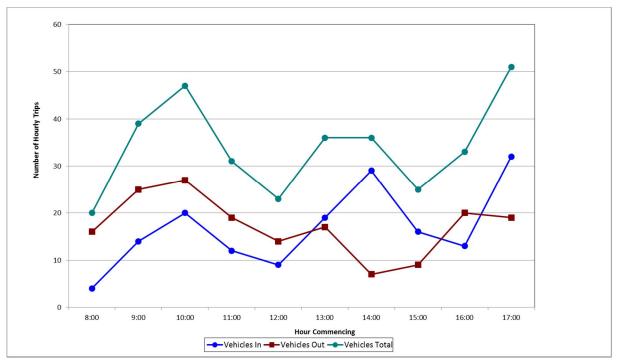
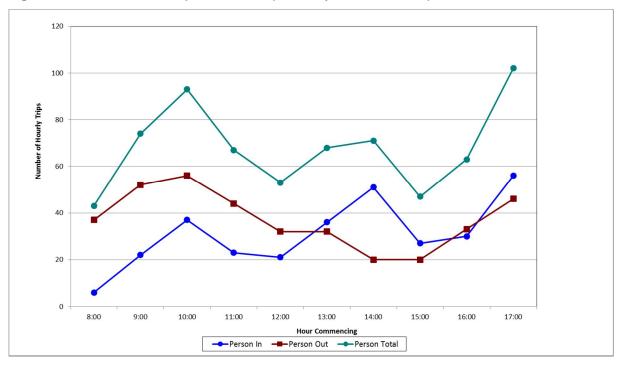


Figure 31 - Site 4 Person Trip Generation (Saturday, South Access)



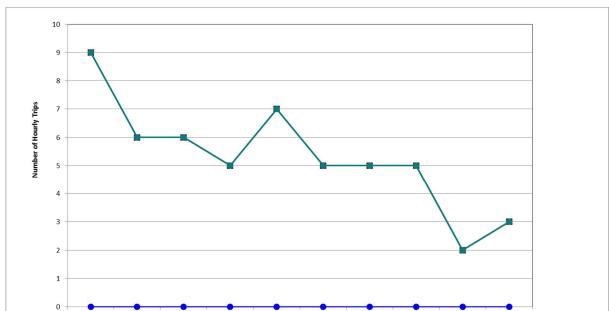


Figure 32 - Site 4 Vehicle Trip Generation (Saturday, North Access)



11:00

12:00

13:00 Hour Commencing → Vehicles In → Vehicles Out → Vehicles Total

14:00

15:00

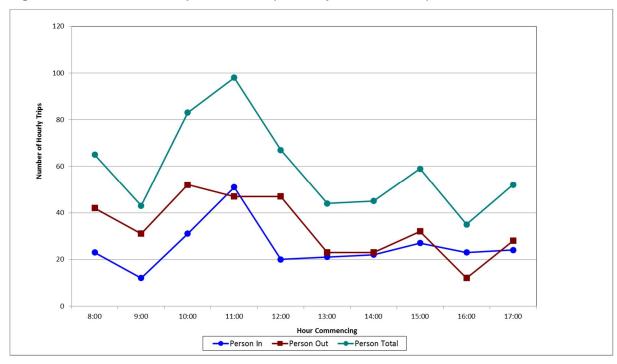
16:00

17:00

10:00

8:00

9:00



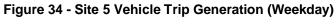
3.1.5 Site 5: 26-30 Hassall, Street Parramatta

Table 30 - Site 5 Survey Results (Weekday Hourly)

		Comme		Od	ccupar	nts		mmero /ehicle		0	ccupaı	nts	Tota	ıl Vehi	cles	(tal Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 - 7:00	3	8	11	3	9	12	1	0	1	1	0	1	4	8	12	7	23	30	0
6:15 - 7:15	4	8	12	4	9	13	1	0	1	1	0	1	5	8	13	8	31	39	0
6:30 - 7:30	4	8	12	4	9	13	1	0	1	1	0	1	5	8	13	6	33	39	0
6:45 - 7:45 7:00 - 8:00	5	10 8	15 12	5 4	11 10	16 14	0	0	0	0	0	0	6	10 8	16 12	7	42 48	49 54	0
7:15 - 8:15	3	10	13	3	12	15	0	0	0	0	0	0	3	10	13	7	50	57	0
7:30 - 8:30	5	12	17	5	15	20	0	0	0	0	0	0	5	12	17	11	63	74	0
7:45 - 8:45	5	12	17	5	17	22	0	0	0	0	0	0	5	12	17	11	67	78	0
8:00 - 9:00	6	15	21	6	22	28	0	1	1	0	1	1	6	16	22	10	69	79	0
8:15 - 9:15	6	11	17	6	17	23	0	1	1	0	1	1	6	12	18	8	58	66	0
8:30 - 9:30	4	10	14	4	16	20	0	1	1	0	1	1	4	11	15	4	45	49	0
8:45 - 9:45	5	10	15	5	14	19	1	2	3	1	2	3	6	12	18	8	35	43	0
9:00 - 10:00	5	6	11	5	7	12	1	1	2	1	1	2	6	7	13	8	19	27	0
9:15 - 10:15	4	6	10	4	7	11	1	1	2	1	1	2	5	7	12	8	16	24	0
9:30 - 10:30	3	3	6	3	3	6	2	1	3	2	1	3	5	4	9	8	11	19	0
9:45 - 10:45	1	2	3	1	2	3	1	1	2	1	1	2	2	3	5	4	10	14	0
10:00 - 11:00 10:15 - 11:15	0	3	3	0	3	3	1	1	2	1	1	2	1	3	4 5	8	12	20	0
10:30 - 11:30	0	3	3	0	4	4	0	1	1	0	1	1	0	4	4	8	13	21	0
10:45 - 11:45	0	3	3	0	4	4	0	0	0	0	0	0	0	3	3	12	11	23	0
11:00 - 12:00	0	2	2	0	2	2	0	1	1	0	1	1	0	3	3	9	10	19	0
11:15 - 12:15	1	1	2	1	1	2	0	1	1	0	1	1	1	2	3	9	9	18	0
11:30 - 12:30	1	1	2	1	1	2	0	1	1	0	1	1	1	2	3	8	9	17	0
11:45 - 12:45	2	1	3	2	2	4	0	1	1	0	1	1	2	2	4	5	8	13	0
12:00 - 13:00	3	3	6	3	5	8	0	0	0	0	0	0	3	3	6	5	9	14	0
12:15 - 13:15	2	4	6	2	6	8	0	0	0	0	0	0	2	4	6	7	13	20	0
12:30 - 13:30	2	4	6	2	6	8	0	0	0	0	0	0	2	4	6	11	17	28	0
12:45 - 13:45	2	4	6	2	5	7	0	0	0	0	0	0	2	4	6	13	16	29	0
13:00 - 14:00 13:15 - 14:15	2	3	5 6	2	3	5 6	1	0	1	1	0	1	3	3	6 7	15 16	14	29 29	0
13:30 - 14:30	2	6	8	2	6	8	1	0	1	1	0	1	3	6	9	18	14	32	0
13:45 - 14:45	1	6	7	1	6	7	1	0	1	1	0	1	2	6	8	17	17	34	0
14:00 - 15:00	3	5	8	3	5	8	0	0	0	0	0	0	3	5	8	17	15	32	0
14:15 - 15:15	3	3	6	3	3	6	0	0	0	0	0	0	3	3	6	25	14	39	0
14:30 - 15:30	4	4	8	4	5	9	0	0	0	0	0	0	4	4	8	22	13	35	0
14:45 - 15:45	7	6	13	8	8	16	0	0	0	0	0	0	7	6	13	28	16	44	0
15:00 - 16:00	4	7	11	5	9	14	0	0	0	0	0	0	4	7	11	30	19	49	0
15:15 - 16:15	7	7	14	9	9	18	0	0	0	0	0	0	7	7	14	25	18	43	0
15:30 - 16:30	7	5	12	9	6	15	0	0	0	0	0	0	7	5	12	27	15	42	0
15:45 - 16:45	5	4	9	6	5	11	0	0	0	0	0	0	5	4	9	23	17	40	0
16:00 - 17:00 16:15 - 17:15	6	4	10	9	5 6	14 12	0	0	0	0	0	0	6	<u>4</u> 5	10 9	30	22 25	52 56	0
16:30 - 17:30	6	5 5	11	10	6	16	0	0	0	0	0	0	6	5	11	33	25	60	0
16:45 - 17:45	5	5	10	9	8	17	0	0	0	0	0	0	5	5	10	36	24	60	0
17:00 - 18:00	6	4	10	8	7	15	0	0	0	0	0	0	6	4	10	31	23	54	0
17:15 - 18:15	9	7	16	11	11	22	0	0	0	0	0	0	9	7	16	39	25	64	0
17:30 - 18:30	11	7	18	12	11	23	0	0	0	0	0	0	11	7	18	48	33	81	0
17:45 - 18:45	15	6	21	22	8	30	0	0	0	0	0	0	15	6	21	68	35	103	0
18:00 - 19:00	16	6	22	26	8	34	0	0	0	0	0	0	16	6	22	75	29	104	0
Peak	16	15	22	26	22	34	2	2	3	2	2	3	16	16	22	75	69	104	0

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



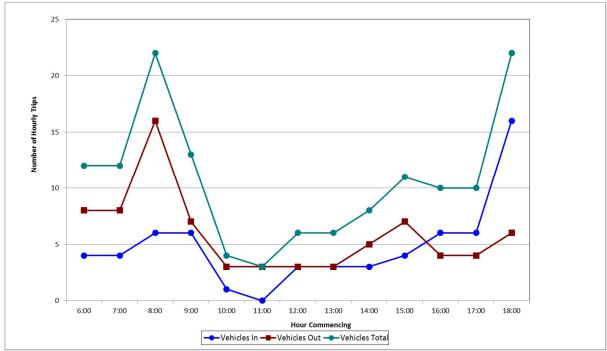


Figure 35 - Site 5 Person Trip Generation (Weekday)

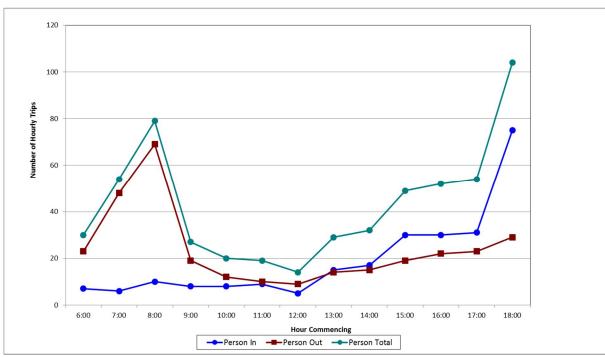
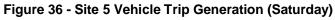


Table 31- Site 5 Survey Results (Saturday Hourly)

		Comme ehicle	s	Oc	ccupar			mmero /ehicle	s	0	ccupar			ıl Vehi	cles	(al Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
8:00 - 9:00	2	12	14	3	21	24	0	0	0	0	0	0	2	12	14	7	43	50	0
8:15 - 9:15	2	10	12	4	21	25	0	0	0	0	0	0	2	10	12	5	41	46	0
8:30 - 9:30	3	11	14	6	21	27	0	0	0	0	0	0	3	11	14	10	35	45	0
8:45 - 9:45	4	13	17	7	22	29	0	0	0	0	0	0	4	13	17	18	44	62	0
9:00 - 10:00	8	8	16	11	13	24	0	0	0	0	0	0	8	8	16	30	35	65	0
9:15 - 10:15	7	9	16	8	14	22	1	0	1	2	0	2	8	9	17	31	38	69	0
9:30 - 10:30	6	11	17	6	18	24	1	0	11	2	0	2	7	11	18	25	45	70	0
9:45 - 10:45 10:00 - 11:00	5	10 9	15	5 3	17 15	22 18	1	0	11	2	0	2	6	10 9	16 12	18 12	38 37	56	0
10:00 - 11:00 10:15 - 11:15	5	7	11 12	5	11	16	0	1	1	0	2	2	5	8	13	12	34	49 46	0
10:30 - 11:30	6	5	11	6	8	14	0	1	1	0	2	2	6	6	12	17	33	50	0
10:45 - 11:45	8	5	13	10	8	18	0	1	1	0	2	2	8	6	14	20	35	55	0
11:00 - 12:00	6	6	12	7	12	19	0	1	1	0	2	2	6	7	13	14	39	53	0
11:15 - 12:15	5	8	13	8	15	23	0	0	0	0	0	0	5	8	13	15	44	59	0
11:30 - 12:30	6	6	12	10	12	22	0	0	0	0	0	0	6	6	12	15	38	53	0
11:45 - 12:45	5	4	9	7	9	16	0	0	0	0	0	0	5	4	9	22	31	53	0
12:00 - 13:00	8	3	11	12	5	17	0	0	0	0	0	0	8	3	11	31	23	54	0
12:15 - 13:15	9	3	12	12	5	17	0	0	0	0	0	0	9	3	12	31	17	48	0
12:30 - 13:30	8	5	13	10	8	18	0	0	0	0	0	0	- 8	5	13	34	17	51	0
12:45 - 13:45	8	7	15	10	9	19	0	0	0	0	0	0	8	7	15	25	16	41	0
13:00 - 14:00	6	7	13	7	9	16	0	0	0	0	0	0	6	7	13	23	18	41	0
13:15 - 14:15	4	6	10	6	7	13	0	0	0	0	0	0	4	6	10	26	17	43	0
13:30 - 14:30	3	6	9	5	7	12	0	0	0	0	0	0	3	6	9	20	18	38	0
13:45 - 14:45	2	4	6	4	6	10	0	0	0	0	0	0	2	4	6	21	20	41	0
14:00 - 15:00	3	5	8	4	7	11	0	0	0	0	0	0	3	5	8	18	19	37	0
14:15 - 15:15	4	5	9	4	9	13	0	0	0	0	0	0	4	5	9	14	20	34	0
14:30 - 15:30	5	5	10	5	8	13	0	0	0	0	0	0	5	5	10	18	17	35	0
14:45 - 15:45	5	5	10	5	7	12	0	0	0	0	0	0	5	5	10	18	20	38	0
15:00 - 16:00	4	4	8	4	6	10	0	0	0	0	0	0	4	4	8	25	19	44	0
15:15 - 16:15	3	4	7	4	6	10	0	0	0	0	0	0	3	4	7	26	20	46	0
15:30 - 16:30	3	3	6	5	6	11	0	0	0	0	0	0	3	3	6	26	22	48	0
15:45 - 16:45	5	2	7	9	5	14	0	0	0	0	0	0	5	2	7	28	14	42	0
16:00 - 17:00	6	3	9	11	6	17	0	0	0	0	0	0	6	3	9	20	14	34	0
16:15 - 17:15	7	4	11	11	6	17	0	0	0	0	0	0	7	4	11	19	13	32	0
16:30 - 17:30	8	3	11	14	4	18	0	0	0	0	0	0	8	3	11	22	10	32	0
16:45 - 17:45	6	4	10	10	5	15	0	0	0	0	0	0	6	4	10	23	23	46	0
17:00 - 18:00	6	5	11	12	9	21	0	0	0	0	0	0	6	5	11	30	30	60	0
Peak	9	13	17	14	22	29	1	1	1	2	2	2	9	13	18	34	45	70	0



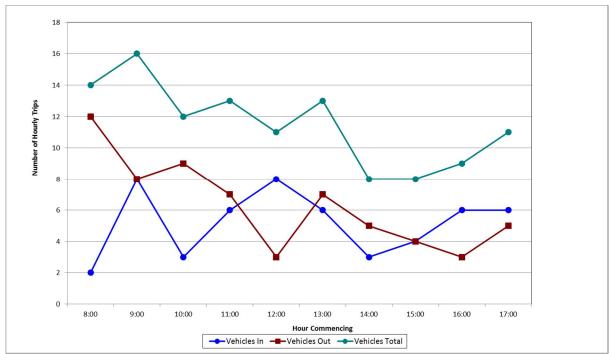
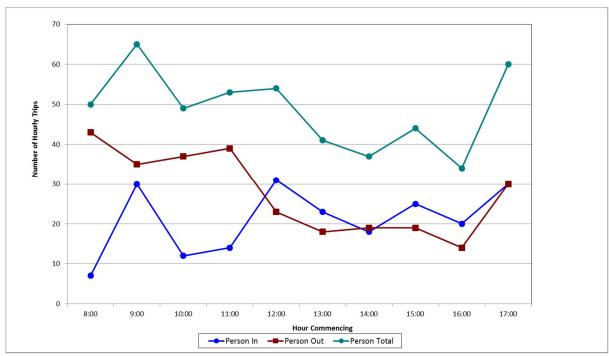


Figure 37 - Site 5 Person Trip Generation (Saturday)



3.1.6 Site 6: 10 Wentworth Drive, Liberty Grove

Table 32 - Site 6 Survey Results (Weekday Hourly)

		٧	Comme ehicle	s		ccupai		\	mmero /ehicle	es		ccupar			ıl Vehi		pe	tal Per (includ destria	e ins)	Visito rs Cars Outsi
		IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 -	7:00	1	15	16	1	19	20	0	0	0	0	0	0	1	15	16	2	27	29	0
6:15 - 6:30 -	7:15	1	14 24	15 25	1	18	19 32	0	0	0	0	0	0	1	14	15 25	2	27 41	29	0
6:30 - 6:45 -	7:30 7:45	2	35	37	2	31 42	44	0	0	0	0	0	0	1 2	24 35	37	3	56	43 59	0
7:00 -	8:00	1	37	38	1	47	48	0	0	0	0	0	0	1	37	38	2	64	66	0
7:15 -	8:15	2	35	37	2	47	49	0	0	0	0	0	0	2	35	37	2	66	68	0
7:30 -	8:30	7	28	35	7	36	43	0	0	0	0	0	0	7	28	35	7	66	73	0
7:45 -	8:45	6	18	24	6	24	30	0	0	0	0	0	0	6	18	24	6	49	55	0
8:00 -	9:00	6	12	18	6	14	20	0	0	0	0	0	0	6	12	18	6	40	46	0
8:15 -	9:15	5	14	19	5	15	20	0	0	0	0	0	0	5	14	19	7	47	54	0
8:30 -	9:30	0	12	12	0	16	16	0	0	0	0	0	0	0	12	12	2	38	40	0
8:45 -	9:45	4	11	15	5	15	20	0	0	0	0	0	0	4	11	15	7	34	41	0
9:00 -	10:00	5	10	15	6	14	20	0	0	0	0	0	0	5	10	15	10	28	38	0
9:15 -	10:15	6	8	14	7	12	19	0	0	0	0	0	0	6	8	14	9	16	25	0
9:30 -		9	6	15	13	7	20	0	0	0	0	0	0	9	6	15	17	12	29	0
9:45 -	10:45	5	4	9	8	5	13	0	0	0	0	0	0	5	4	9	15	9	24	0
10:00 -		6	3	9	10	4	14	0	0	0	0	0	0	6	3	9	15	8	23	0
10:15 - 10:30 -	11:15 11:30	7	2	9	11 5	12 12	23 17	0	0	0	0	0	0	7	2	9	17 9	23	40 29	0
10:30 -		6	3	9	7	13	20	0	0	0	0	0	0	6	3	9	8	24	32	0
11:00 -	12:00	6	5	11	7	16	23	0	0	0	0	0	0	6	5	11	13	26	39	0
11:15 -	12:15	4	4	8	5	5	10	0	0	0	0	0	0	4	4	8	13	9	22	0
11:30 -		5	4	9	6	5	11	0	0	0	0	0	0	5	4	9	15	10	25	0
11:45 -		4	4	8	5	5	10	0	0	0	0	Ö	0	4	4	8	17	7	24	0
12:00 -	13:00	5	4	9	7	4	11	0	0	0	0	0	0	5	4	9	15	6	21	0
12:15 -	13:15	5	3	8	7	3	10	0	0	0	0	0	0	5	3	8	12	7	19	0
12:30 -	13:30	4	6	10	6	5	11	0	0	0	0	0	0	4	6	10	10	8	18	0
12:45 -	13:45	5	7	12	8	6	14	0	0	0	0	0	0	5	7	12	9	9	18	0
13:00 -		2	5	7	3	4	7	0	0	0	0	0	0	2	5	7	3	7	10	0
13:15 -	14:15	4	5	9	7	4	11	0	0	0	0	0	0	4	5	9	7	4	11	0
13:30 -	17.00	5	3	8	9	4	13	0	0	0	0	0	0	5	3	8	10	4	14	0
13:45 - 14:00 -		4	1	5	7	4	9	0	0	0	0	0	0	4	1	5	8	2	10	0
14:00 - 14:15 -	15:00 15:15	5 6	3 6	8 12	9	9	18	0	0	0	0	0	0	5 6	3 6	8 12	10 14	9	23	0
14:30 -	15:30	6	6	12	8	8	16	0	0	0	0	0	0	6	6	12	13	11	24	0
14:45 -	15:45	8	9	17	12	12	24	0	0	0	0	0	0	8	9	17	22	16	38	0
15:00 -	16:00	11	7	18	17	10	27	0	0	0	0	0	0	11	7	18	34	15	49	0
15:15 -		8	4	12	13	5	18	0	0	0	0	0	0	8	4	12	32	13	45	0
15:30 -	16:30	9	5	14	15	9	24	0	0	0	0	0	0	9	5	14	35	22	57	0
15:45 -	16:45	10	4	14	15	9	24	0	0	0	0	0	0	10	4	14	35	22	57	0
16:00 -	17:00	9	5	14	14	10	24	0	0	0	0	0	0	9	5	14	29	23	52	0
16:15 -	17:15	10	7	17	15	13	28	0	0	0	0	0	0	10	7	17	33	31	64	0
16:30 -	17:30	11	8	19	17	15	32	0	0	0	0	0	0	11	8	19	46	27	73	0
16:45 -		7	7	14	12	12	24	0	0	0	0	0	0	7	7	14	41	24	65	0
17:00 -	18:00	5	7	12	7	13	20	0	0	0	0	0	0	5	7	12	34	26	60	0
17:15 -	18:15	9	6	15	13	12	25	0	0	0	0	0	0	9	6	15	36	20	56	0
17:30 -		14	5	19	17	9	26	0	0	0	0	0	0	14	5	19	33	17	50	0
17:45 -	18:45	16	7	23	20	14	34	0	0	0	0	0	0	16	7	23	33	24	57	0
18:00 - Peak	19:00	18 18	8 37	26 38	23 23	14 47	37 49	0	0	0	0	0	0	18 18	8 37	26 38	36 46	22 66	58 73	0

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



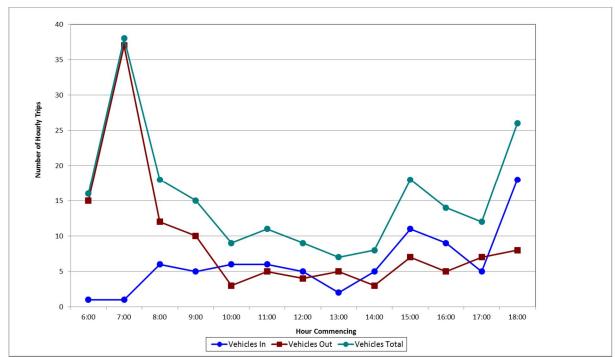


Figure 39 - Site 6 Person Trip Generation (Weekday)

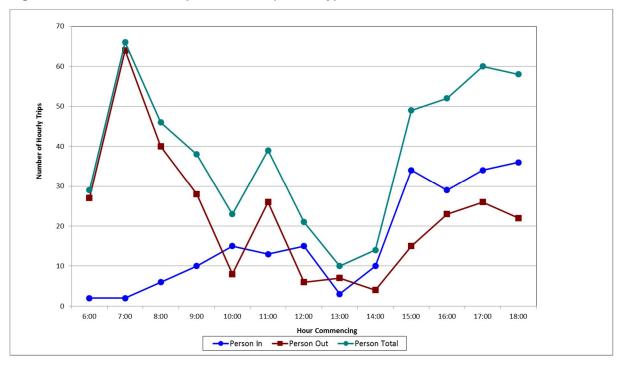


Table 33 - Site 6 Survey Results (Saturday Hourly)

		Commo ehicle		O	ccupar	nts		mmero /ehicle		0	ccupar	nts	Tota	ıl Vehi	cles	(tal Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	FOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	ΓΟΤΑΙ	de
8:00 - 9:00	1	7	8	1	11	12	0	0	0	0	0	0	1	7	8	6	21	27	0
8:15 - 9:15	0	8	8	0	14	14	0	0	0	0	0	0	0	8	8	8	24	32	0
8:30 - 9:30	1	11	12	2	26	28	0	0	0	0	0	0	1	11	12	15	37	52	0
8:45 - 9:45	2	8	10	4	22	26	0	0	0	0	0	0	2	8	10	17	36	53	0
9:00 - 10:00	3	8	11	5	24	29	0	0	0	0	0	0	3	8	11	16	38	54	0
9:15 - 10:15	3	9	12	5	23	28	0	0	0	0	0	0	3	9	12	12	33	45	0
9:30 - 10:30	3	5	8	6	9	15	0	0	0	0	0	0	3	5	8	8	18	26	0
9:45 - 10:45	3	10	13	7	21	28	0	0	0	0	0	0	3	10	13	10	26	36	0
10:00 - 11:00	3	10	13	7	18	25	0	0	0	0	0	0	3	10	13	10	24	34	0
10:15 - 11:15	5	9	14	13	17	30	0	0	0	0	0	0	5	9	14	16	24	40	0
10:30 - 11:30	5	12	17	11	25	36	0	0	0	0	0	0	5	12	17	24	40	64	0
10:45 - 11:45	4	11	15	8	24	32	0	0	0	0	0	0	4	11	15	20	38	58	0
11:00 - 12:00	5	10	15	10	23	33	0	0	0	0	0	0	5	10	15	21	41	62	0
11:15 - 12:15	4	8	12	6	24	30	0	0	0	0	0	0	4	8	12	18	46	64	0
11:30 - 12:30 11:45 - 12:45	6 7	11 8	17 15	13 16	26 17	39 33	0	0	0	0	0	0	6 7	11	17 15	15	41 33	56 51	0
11:45 - 12:45 12:00 - 13:00	7	12	19	16	24	40	0	0	0	0	0	0	7	8 12	19	18 19	34	53	0
12:15 - 13:15	6	12	18	14	20	34	0	0	0	0	0	0	6	12	18	16	25	41	0
12:30 - 13:30	3	8	11	6	12	18	0	0	0	0	0	0	3	8	11	9	15	24	0
12:45 - 13:45	4	8	12	7	11	18	0	0	0	0	0	0	4	8	12	10	14	24	0
13:00 - 14:00	3	5	8	8	5	13	0	0	0	0	0	0	3	5	8	9	8	17	0
13:15 - 14:15	5	5	10	9	10	19	0	0	0	0	0	0	5	5	10	11	15	26	0
13:30 - 14:30	7	6	13	13	16	29	0	0	0	0	0	0	7	6	13	15	21	36	0
13:45 - 14:45	7	8	15	13	15	28	0	0	0	0	0	0	7	8	15	15	18	33	0
14:00 - 15:00	8	7	15	12	17	29	0	0	0	0	0	0	- 8	7	15	15	19	34	0
14:15 - 15:15	6	6	12	11	11	22	0	0	0	0	0	0	6	6	12	15	15	30	0
14:30 - 15:30	7	5	12	13	6	19	0	0	0	0	0	0	7	5	12	17	13	30	0
14:45 - 15:45	7	3	10	14	7	21	0	0	0	0	0	0	7	3	10	18	20	38	0
15:00 - 16:00	8	6	14	15	13	28	0	0	0	0	0	0	8	6	14	20	30	50	0
15:15 - 16:15	13	7	20	24	15	39	0	0	0	0	0	0	13	7	20	28	31	59	0
15:30 - 16:30	12	6	18	20	13	33	0	0	0	0	0	0	12	6	18	25	28	53	0
15:45 - 16:45	12	7	19	18	17	35	0	0	0	0	0	0	12	7	19	30	29	59	0
16:00 - 17:00	10	6	16	15	11	26	0	0	0	0	0	0	10	6	16	31	23	54	0
16:15 - 17:15	6	6	12	8	11	19	0	0	0	0	0	0	6	6	12	29	21	50	0
16:30 - 17:30	6	5	11	10	10	20	0	0	0	0	0	0	6	5	11	34	19	53	0
16:45 - 17:45	6	4	10	9	7	16	0	0	0	0	0	0	6	4	10	33	16	49	0
17:00 - 18:00	6	4	10	9	8	17	0	0	0	0	0	0	6	4	10	29	13	42	0
Peak	13	12	20	24	26	40	0	0	0	0	0	0	13	12	20	34	46	64	0



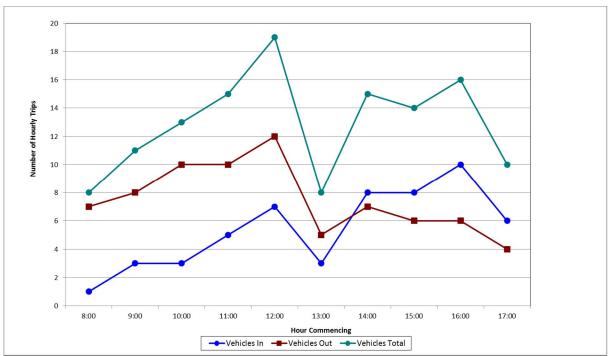
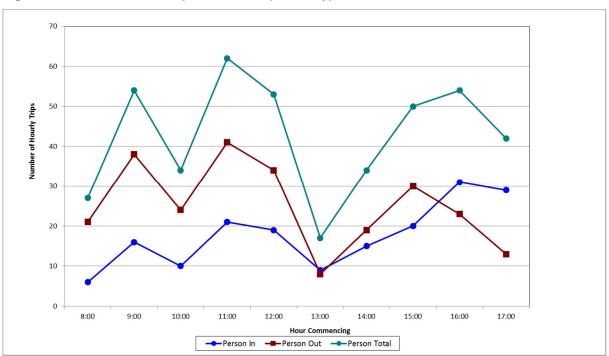


Figure 41 – Site 6 Person Trip Generation (Saturday)



3.1.7 Site 7: 2 Everton Road, Strathfield

Table 34 - Site 7 Survey Results (Weekday Hourly)

		Comme ehicle		O	ccupar	nts		mmero /ehicle		O	ccupar	nts	Tota	al Vehi	cles	(al Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 - 7:00	1	3	4	1	3	4	0	1	1	0	1	1	1	4	5	1	14	15	0
6:15 - 7:15	1	1	2	1	1	2	0	1	1	0	1	1	1	2	3	2	8	10	0
6:30 - 7:30	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	5	6	0
6:45 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	0
7:00 - 8:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	6	7	0
7:15 - 8:15 7:30 - 8:30	0	1 2	2	0	1 2	2	0	0	0	0	0	0	0	1 2	1 2	0	8 10	8 11	0
7:45 - 8:45	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	3	13	16	1
8:00 - 9:00	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	3	13	16	1
8:15 - 9:15	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	3	13	16	1
8:30 - 9:30	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	4	10	14	0
8:45 - 9:45	0	4	4	0	5	5	0	0	0	0	0	0	0	4	4	2	11	13	0
9:00 - 10:00	0	3	3	0	4	4	0	0	0	0	0	0	0	3	3	3	10	13	0
9:15 - 10:15	0	3	3	0	4	4	0	0	0	0	0	0	0	3	3	6	12	18	0
9:30 - 10:30	1	2	3	1	3	4	0	0	0	0	0	0	1	2	3	5	15	20	0
9:45 - 10:45	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	5	12	17	0
10:00 - 11:00	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	4	10	14	0
10:15 - 11:15	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	1	7	8	0
10:30 - 11:30	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	1	5	6	0
10:45 - 11:45	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	1	5	6	0
11:00 - 12:00 11:15 - 12:15	0	2	2	0	3	3	0	0	0	0	0	0	0	2	2	3	6 5	8	0
11:15 - 12:15 11:30 - 12:30	3	1	4	3	1	4	0	0	0	0	0	0	3	1	4	7	4	11	0
11:45 - 12:45	3	0	3	3	1	4	0	0	0	0	0	0	3	0	3	8	4	12	0
12:00 - 13:00	4	0	4	4	2	6	0	0	0	0	0	0	4	0	4	9	5	14	0
12:15 - 13:15	5	0	5	5	2	7	0	0	0	0	0	0	5	0	5	10	5	15	0
12:30 - 13:30	2	0	2	2	2	4	0	0	0	0	0	0	2	0	2	6	4	10	0
12:45 - 13:45	2	0	2	2	1	3	0	0	0	0	0	0	2	0	2	5	2	7	0
13:00 - 14:00	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	3	0	3	0
13:15 - 14:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0
13:30 - 14:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	0
13:45 - 14:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	0
14:00 - 15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	0
14:15 - 15:15	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	6	6	12	0
14:30 - 15:30 14:45 - 15:45	2	0	2	2	2	2	0	0	0	0	0	0	2	2	2	8	7 8	15 17	0
15:00 - 16:00	2	2	4	2	2	4	0	0	0	0	0	0	2	2	4	13	6	19	0
15:15 - 16:15	2	2	4	2	2	4	0	0	0	0	0	0	2	2	4	13	5	18	0
15:30 - 16:30	2	3	5	2	3	5	0	0	0	0	0	0	2	3	5	11	5	16	0
15:45 - 16:45	2	2	4	2	2	4	0	0	0	0	0	0	2	2	4	18	4	22	0
16:00 - 17:00	2	2	4	2	2	4	0	0	0	0	0	0	2	2	4	16	5	21	0
16:15 - 17:15	2	3	5	2	3	5	0	0	0	0	0	0	2	3	5	16	7	23	0
16:30 - 17:30	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	14	6	20	0
16:45 - 17:45	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	8	4	12	0
17:00 - 18:00	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	10	3	13	0
17:15 - 18:15	2	0	2	2	0	2	0	0	0	0	0	0	2	0	2	10	2	12	0
17:30 - 18:30	3	0	3	3	0	3	0	0	0	0	0	0	3	0	3	14	6	20	0
17:45 - 18:45	4	0	4	4	0	4	0	0	0	0	0	0	4	0	4	18	6	24	0
18:00 - 19:00	5	0	5	5	0	5	0	0	0	0	0	0	5	0	5	18	10	28	1
Peak	5	4	5	5	5	7	0	1	1	0	1	1	5	4	5	18	15	28	1

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



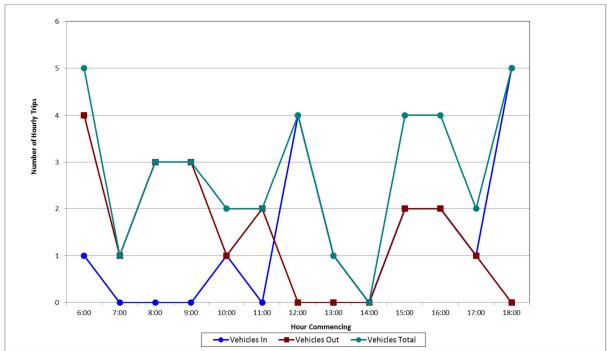


Figure 43 - Site 7 Person Trip Generation (Weekday)

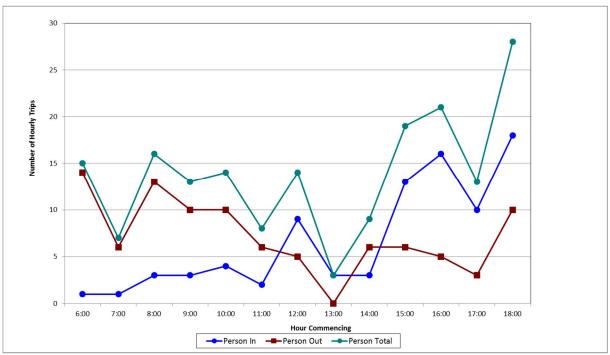


Table 35 - Site 7 Survey Results (Weekend Hourly)

		Comme ehicle		Ö	ccupar	nts		mmero /ehicle		O	ccupaı	nts	Tota	al Vehi	cles	(tal Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
8:00 - 9:00	1	5	6	1	6	7	0	0	0	0	0	0	1	5	6	13	16	29	1
8:15 - 9:15	0	3	3	0	4	4	0	0	0	0	0	0	0	3	3	5	11	16	0
8:30 - 9:30	0	4	4	0	5	5	0	0	0	0	0	0	0	4	4	5	11	16	0
8:45 - 9:45	0	3	3	0	3	3	0	0	0	0	0	0	0	3	3	6 8	10	16 19	0
9:00 - 10:00 9:15 - 10:15	0	2	3	0	3	3	0	0	0	0	0	0	0	2	3	8	11 8	16	0
9:30 - 10:30	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	6	10	16	0
9:45 - 10:45	0	2	2	0	2	2	0	0	0	0	0	0	0	2	2	5	10	15	0
10:00 - 11:00	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	2	11	13	0
10:15 - 11:15	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	7	13	20	0
10:30 - 11:30	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	8	14	22	0
10:45 - 11:45	1	3	4	1	5	6	0	0	0	0	0	0	1	3	4	11	19	30	0
11:00 - 12:00	0	5	5	0	8	8	0	0	0	0	0	0	0	5	5	10	19	29	0
11:15 - 12:15	0	7	7	0	11	11	0	0	0	0	0	0	0	7	7	4	25	29	0
11:30 - 12:30	1	6	7	1	10	11	0	0	0	0	0	0	1	6	7	5	21	26	0
11:45 - 12:45	1	4	5	1	6	7	0	0	0	0	0	0	1	4	5	4	16	20	0
12:00 - 13:00	2	2	4	3	3	6	0	0	0	0	0	0	2	2	4	10	13	23	0
12:15 - 13:15	3	1	4	5	2	7	0	0	0	0	0	0	3	1	4	13	10	23	0
12:30 - 13:30	2	1	3	4	2	6	0	0	0	0	0	0	2	1	3	11	8	19	0
12:45 - 13:45	2	2	4	4	4	8	0	0	0	0	0	0	2	2	4	10	9	19	0
13:00 - 14:00	3	2	5	5	4	9	0	0	0	0	0	0	3	2	5	7	11	18	0
13:15 - 14:15	3	2	5	5	4	9	0	0	0	0	0	0	3	2	5	11	12	23	0
13:30 - 14:30	3	4	7	5	9	14	0	0	0	0	0	0	3	4	7	11	17	28	0
13:45 - 14:45	4	4	8	6	8	14	0	0	0	0	0	0	4	4	8	13	16	29	0
14:00 - 15:00	2	4	6	3	8	11	0	0	0	0	0	0	2	4	6	13	13	26	0
14:15 - 15:15 14:30 - 15:30	3	5 3	8	3	10 5	13 8	0	0	0	0	0	0	3	5	8	9 12	12 8	21	0
14:45 - 15:45	2	5	7	2	7	9	0	0	0	0	0	0	2	5	7	11	12	23	0
15:00 - 16:00	4	6	10	5	8	13	0	0	0	0	0	0	4	6	10	14	13	27	0
15:15 - 16:15	2	4	6	3	4	7	0	0	0	0	0	0	2	4	6	19	11	30	0
15:30 - 16:30	4	4	- 8	5	4	9	0	0	0	0	0	0	4	4	8	19	12	31	0
15:45 - 16:45	5	1	6	7	1	8	0	0	0	0	0	0	5	1	6	21	8	29	0
16:00 - 17:00	3	1	4	4	2	6	0	0	0	0	0	0	3	1	4	15	11	26	0
16:15 - 17:15	3	2	5	4	3	7	0	0	0	0	0	0	3	2	5	9	15	24	0
16:30 - 17:30	2	2	4	3	3	6	0	0	0	0	0	0	2	2	4	7	14	21	0
16:45 - 17:45	2	4	6	3	7	10	0	0	0	0	0	0	2	4	6	6	18	24	0
17:00 - 18:00	3	3	6	5	5	10	0	0	0	0	0	0	3	3	6	8	15	23	0
Peak	5	7	10	7	11	14	0	0	0	0	0	0	5	7	10	21	25	31	1

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road



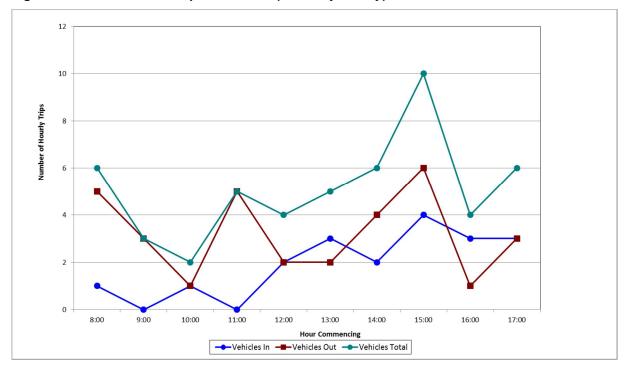
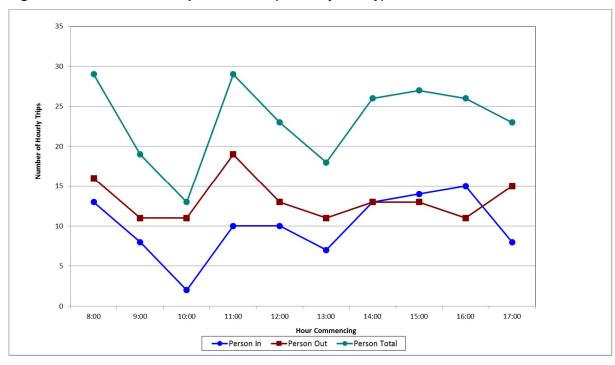


Figure 45 – Site 7 Person Trip Generation (Saturday Hourly)



3.1.8 Site 8: 316 Charlestown Road, Charlestown

Table 36 - Site 8 Survey Results (Weekday Hourly)

			Comme ehicle		Ö	ccupar	nts		mmero /ehicle		0	ccupaı	nts	Tota	ıl Vehi	cles	(al Per includ destria	е	Visito rs Cars Outsi
		IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
6:00 -	7:00	0	5	5	0	7	7	3	6	9	0	0	0	3	11	14	0	9	9	0
6:15 -	7:15	1	5	6	1	7	8	4	7	11	0	0	0	5	12	17	1	9	10	0
6:30 -	7:30	1	8	9	1	10	11	3	8	11	0	0	0	4	16	20	1	14	15	0
6:45 -	7:45	2	6	8	3	6	9	14	16	30	0	0	0	16	22	38	3	10	13	0
7:00 - 7:15 -	8:00 8:15	1	9	11 12	3	10 12	13 14	14 19	15 18	29 37	0	0	0	16 20	24 29	40 49	3	15 18	18 22	0
7:15 -	8:30	1	7	8	2	8	10	30	21	51	0	0	0	31	28	59	4	13	17	0
7:45 -	8:45	3	8	11	3	10	13	21	15	36	0	0	0	24	23	47	6	17	23	0
8:00 -	9:00	4	5	9	5	6	11	19	14	33	0	0	0	23	19	42	11	13	24	0
8:15 -	9:15	4	3	7	5	4	9	17	12	29	0	0	0	21	15	36	9	14	23	0
8:30 -	9:30	4	8	12	5	11	16	8	9	17	0	0	0	12	17	29	9	23	32	0
8:45 -	9:45	2	8	10	3	10	13	6	8	14	0	0	0	8	16	24	7	23	30	0
9:00 -	10:00	1	7	8	1	9	10	9	12	21	0	0	0	10	19	29	6	21	27	0
9:15 -	10:15	3	12	15	3	14	17	11	25	36	0	0	0	14	37	51	11	27	38	0
9:30 -	10:30	3	10	13	3	10	13	16	25	41	0	0	0	19	35	54	13	20	33	0
9:45 -	10:45	3	14	17	3	15	18	23	24	47	0	0	0	26	38	64	14	23	37	0
10:00 -	11:00	3	14	17	3	15	18	25	25	50	0	0	0	28	39	67	13	23	36	0
10:15 -	11:15	2	12	14	3	15	18	19	11	30	0	0	0	21	23	44	13	23	36	0
10:30 -	11:30	2	9	11	3	12	15	16	9	25	0	0	0	18	18	36	11	21	32	0
10:45 -	11:45	2	3	5	4	5	9	15	12	27	0	0	0	17	15	32	12	13	25	0
11:00 -	12:00	2	5	7	4	7	11	13	7	20	0	0	0	15	12	27	13	18	31	0
11:15 -	12:15	4	4	8	6	4	10	21	11	32	0	0	0	25	15	40	15	14	29	0
11:30 -		4	8	12	6	7	13	22	17	39	0	0	0	26	25	51	18	16	34	0
11:45 -		3	13	16	4	15	19	17	15	32	0	0	0	20	28	48	15	25	40	0
12:00 - 12:15 -	13:00 13:15	4	15 13	19 17	6	17 15	23	14 8	15 10	29 18	0	0	0	18 12	30	48 35	13 11	23 19	36 30	0
12:15 -	13:15	7	9	16	11	12	21 23	3	7	10	0	0	0	10	23 16	26	16	18	34	0
12:45 -	13:45	7	4	11	11	4	15	6	7	13	0	0	0	13	11	24	17	10	27	0
13:00 -		11	0	11	17	0	17	6	8	14	0	0	0	17	8	25	25	6	31	0
13:15 -	14:15	10	3	13	16	4	20	5	12	17	0	0	0	15	15	30	24	12	36	0
13:30 -	14:30	7	4	11	11	6	17	5	13	18	0	0	0	12	17	29	18	14	32	0
13:45 -	14:45	11	4	15	15	6	21	1	9	10	0	0	0	12	13	25	20	12	32	0
14:00 -	15:00	6	4	10	7	9	16	3	10	13	0	0	0	9	14	23	12	16	28	0
14:15 -	15:15	4	3	7	4	5	9	5	9	14	0	0	0	9	12	21	9	11	20	0
14:30 -	15:30	7	3	10	7	5	12	6	7	13	0	0	0	13	10	23	10	10	20	0
14:45 -	15:45	10	5	15	13	8	21	6	7	13	0	0	0	16	12	28	18	13	31	0
15:00 -	16:00	12	9	21	15	9	24	5	5	10	0	0	0	17	14	31	18	16	34	0
15:15 -		14	7	21	18	9	27	5	4	9	0	0	0	19	11	30	23	14	37	0
15:30 -	16:30	19	6	25	26	7	33	7	4	11	0	0	0	26	10	36	32	12	44	0
15:45 -	16:45	12	8	20	16	9	25	12	9	21	0	0	0	24	17	41	25	18	43	0
16:00 -		12	7	19	18	9	27	14	12	26	0	0	0	26	19	45	28	16	44	0
16:15 -	17:15	16 12	8	24	22	10	32	16	13	29	0	0	0	32	21	53 48	33	17	50	0
16:30 - 16:45 -	17:30 17:45	18	8 7	20 25	16 23	10 12	26 35	17 12	11	28 23	0	0	0	29 30	19 18	48	26 30	20 19	46 49	0
17:00 -	18:00	16	8	24	19	12	31	12	11	23	0	0	0	28	19	47	28	20	48	0
17:15 -	18:15	10	7	17	12	11	23	7	11	18	0	0	0	17	18	35	21	20	41	0
17:30 -		13	9	22	18	14	32	5	13	18	0	0	0	18	22	40	29	20	49	0
17:45 -	18:45	11	8	19	16	11	27	5	11	16	0	0	0	16	19	35	28	18	46	0
18:00 -	19:00	12	4	16	17	7	24	5	13	18	0	0	0	17	17	34	28	15	43	0
Peak		19	15	25	26	17	35	30	25	51	0	0	0	32	39	67	33	27	50	0

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



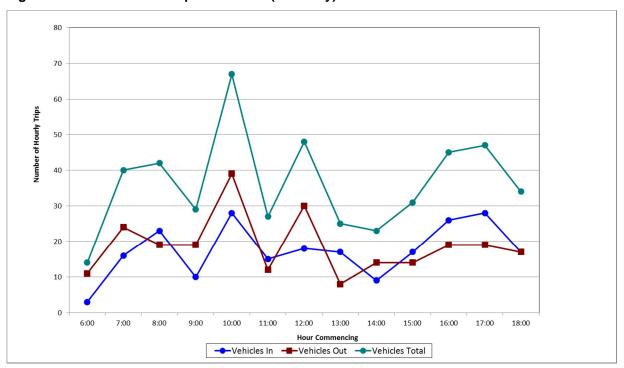


Figure 47 - Site 8 Person Trip Generation (Weekday)

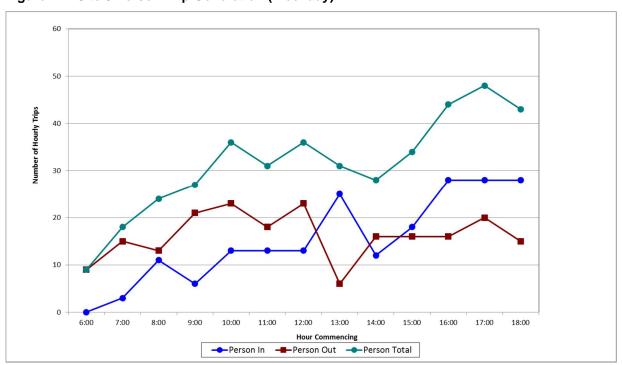


Table 37 - Site 8 Survey Results (Saturday Hourly)

		Non-0	Comme	ercial				Co	mmerc	cial	_					. 1	Tot	al Per	son	Visito
		V	ehicle	s	O	ccupar	nts	١	ehicle/	s	0	ccupar	nts	lota	l Vehi	cies	(includ	е	rs
		IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	FOTAL	IN	OUT	TOTAL	Cars
8:00 -	9:00	0	10	10	0	14	14	0	0	0	0	0	0	0	10	10	5	22	27	0
8:15 -	9:15	1	11	12	1	16	17	0	0	0	0	0	0	1	11	12	6	24	30	0
8:30 -	9:30	1	9	10	1	14	15	0	0	0	0	0	0	1	9	10	7	24	31	0
8:45 -	9:45	2	6	8	3	8	11	0	0	0	0	0	0	2	6	8	9	18	27	0
9:00 -	10:00	2	4	6	3	6	9	0	0	0	0	0	0	2	4	6	9	19	28	0
9:15 -	10:15	3	3	6	4	4	8	0	0	0	0	0	0	3	3	6	14	16	30	0
9:30 -	10:30	3	5	8	4	8	12	2	2	4	0	0	0	5	7	12	12	20	32	0
9:45 -	10:45	3	8	11	4	14	18	5	6	11	0	0	0	8	14	22	10	27	37	0
10:00 -	11:00	6	6	12	8	11	19	9	8	17	0	0	0	15	14	29	14	19	33	0
10:15 -	11:15	5	7	12	7	13	20	11	13	24	0	0	0	16	20	36	12	23	35	0
10:30 -	11:30	8	7	15	12	11	23	13	14	27	0	0	0	21	21	42	18	19	37	0
10:45 -	11:45	10	6	16	14	8	22	10	11	21	0	0	0	20	17	37	20	18	38	0
11:00 -	12:00	10	7	17	15	10	25	7	11	18	0	0	0	17	18	35	20	21	41	0
11:15 -	12:15	12	6	18	20	8	28	8	7	15	0	0	0	20	13	33	23	19	42	0
11:30 -	12:30	10	5	15	17	8	25	8	5	13	0	0	0	18	10	28	21	20	41	0
11:45 -	12:45	10	5	15	17	8	25	8	8	16	0	0	0	18	13	31	23	18	41	0
12:00 -	13:00	9	4	13	14	6	20	7	6	13	0	0	0	16	10	26	23	17	40	0
12:15 -	13:15	10	5	15	14	8	22	9	13	22	0	0	0	19	18	37	23	19	42	0
12:30 -	13:30	9	7	16	12	11	23	6	13	19	0	0	0	15	20	35	20	21	41	0
12:45 -	13:45	7	6	13	10	10	20	9	11	20	0	0	0	16	17	33	18	22	40	0
13:00 -	14:00	8	8	16	12	12	24	9	11	20	0	0	0	17	19	36	17	25	42	0
13:15 -	14:15	4	7	11	6	10	16	5	4	9	0	0	0	9	11	20	16	24	40	0
13:30 -	14:30	6	8	14	8	5	13	5	5	10	0	0	0	11	13	24	22	20	42	0
13:45 -	14:45	6	10	16	8	3	11	2	3	5	0	0	0	8	13	21	22	18	40	0
14:00 -	15:00	7	8	15	9	1	10	4	3	7	0	0	0	11	11	22	29	16	45	0
14:15 -	15:15	7	9	16	9	2	11	4	3	7	0	0	0	11	12	23	23	16	39	0
14:30 -	15:30	8	6	14	11	5	16	7	4	11	0	0	0	15	10	25	27	17	44	0
14:45 -	15:45	7	5	12	9	8	17	7	4	11	0	0	0	14	9	23	27	18	45	0
15:00 -	16:00	5	6	11	7	9	16	6	7	13	0	0	0	11	13	24	21	16	37	0
15:15 -	16:15	9	5	14	13	8	21	5	10	15	0	0	0	14	15	29	30	13	43	0
15:30 -	16:30	7	4	11	12	5	17	3	10	13	0	0	0	10	14	24	26	11	37	0
15:45 -	16:45	13	2	15	20	2	22	3	13	16	0	0	0	16	15	31	32	12	44	0
16:00 -	17:00	16	1	17	25	1	26	3	10	13	0	0	0	19	11	30	40	22	62	0
16:15 -	17:15	13	1	14	22	1	23	4	6	10	0	0	0	17	7	24	39	21	60	0
16:30 -	17:30	17	5	22	25	5	30	2	7	9	0	0	0	19	12	31	39	23	62	0
16:45 -	17:45	15	6	21	21	6	27	4	5	9	0	0	0	19	11	30	33	20	53	0
17:00 -	18:00	13	8	21	18	9	27	5	8	13	0	0	0	18	16	34	25	15	40	0
Peak		17	11	22	25	16	30	13	14	27	0	0	0	21	21	42	40	27	62	0

Peak 1-hour period for car trips/person trips

All-day Peak Hour on Adjacent Road



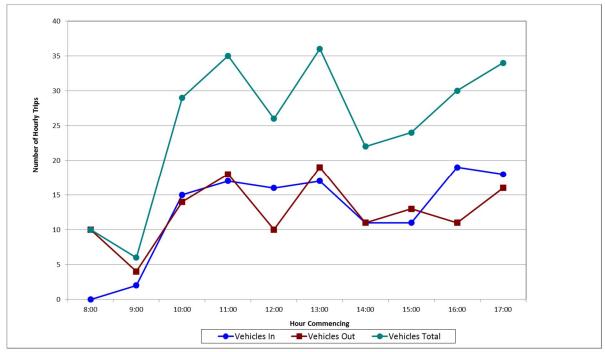
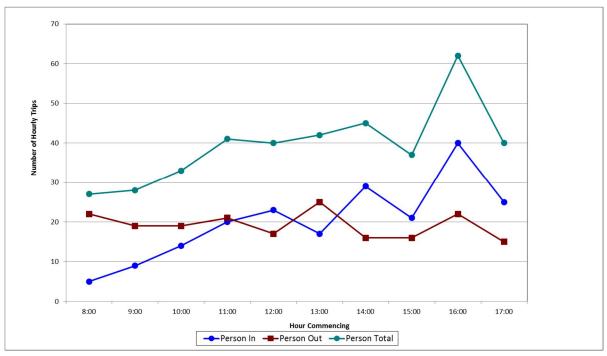


Figure 49 – Site 8 Person Trip Generation (Saturday)



3.1.9 Site 9: 3-5 Corrimal Street, Wollongong

Table 38 - Site 9 Survey Results (Weekday Hourly)

	\	Comme /ehicle	es		ccupai		\	mmero /ehicle	es		ccupaı			ıl Vehi		pe	tal Per includ destria	e ins)	Visito rs Cars Outsi
	IN		TOTAL	IN	OUT	TOTAL	IN		TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN		TOTAL	de
6:00 - 7:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	0	2	2	0
6:15 - 7:15	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	0	2	2	1
6:30 - 7:30 6:45 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1
7:00 - 8:00	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	1	1	2	3
7:15 - 8:15	1	3	4	1	4	5	0	0	0	0	0	0	1	3	4	1	5	6	4
7:30 - 8:30	1	3	4	1	4	5	0	0	0	0	0	0	1	3	4	1	5	6	6
7:45 - 8:45	0	4	4	0	5	5	0	0	0	0	0	0	0	4	4	0	6	6	8
8:00 - 9:00	1	5	6	1	6	7	0	0	0	0	0	0	1	5	6	1	7	8	8
8:15 - 9:15	1	4	5	1	5	6	0	0	0	0	0	0	1	4	5	1	6	7	8
8:30 - 9:30	2	6	8	2	8	10	0	0	0	0	0	0	2	6	8	2	8	10	8
8:45 - 9:45	2	5	7	2	7	9	0	0	0	0	0	0	2	5	7	2	9	11	8
9:00 - 10:00	1	5	6	1	8	9	0	0	0	0	0	0	1	5	6	4	10	14	8
9:15 - 10:15	1	4	5	1	6	7	0	0	0	0	0	0	1	4	5	4	8	12	7
9:30 - 10:30	2	2	4	2	3	5	0	0	0	0	0	0	2	2	4	5	5	10	7
9:45 - 10:45	3	2	5	4	3	7	0	0	0	0	0	0	3	2	5	7	4	11	7
10:00 - 11:00	3	2	5	4	2	6	0	0	0	0	0	0	3	2	5	4	3	7	7
10:15 - 11:15	3	1	4	4	1	5	0	0	0	0	0	0	3	1	4	6	4	10	8
10:30 - 11:30	1	1	2	2	1	3	0	0	0	0	0	0	1	1	2	4	4	8	6
10:45 - 11:45	1	3	4	2	3	5	0	0	0	0	0	0	1	3	4	4	6	10	5
11:00 - 12:00	3	3	6	4	4	8	0	0	0	0	0	0	3	3	6	6	7	13	4
11:15 - 12:15 11:30 - 12:30	4	3	7	5 5	4	9	0	0	0	0	0	0	4	3	7	7	6 6	13	3
11:45 - 12:45	3	1	4	3	2	5	0	0	0	0	0	0	3	1	4	5	3	8	4
12:00 - 13:00	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	3	3	6	4
12:15 - 13:15	1	3	4	2	3	5	0	0	0	0	0	0	1	3	4	2	3	5	4
12:30 - 13:30	1	3	4	2	3	5	0	0	0	0	0	0	1	3	4	3	3	6	4
12:45 - 13:45	2	3	5	3	3	6	0	0	0	0	0	0	2	3	5	4	4	8	4
13:00 - 14:00	2	1	3	3	1	4	0	0	0	0	0	0	2	1	3	4	2	6	4
13:15 - 14:15	3	0	3	3	0	3	0	0	0	0	0	0	3	0	3	7	1	8	4
13:30 - 14:30	4	0	4	5	0	5	0	0	0	0	0	0	4	0	4	8	1	9	4
13:45 - 14:45	3	0	3	4	0	4	0	0	0	0	0	0	3	0	3	7	0	7	4
14:00 - 15:00	3	0	3	4	0	4	0	0	0	0	0	0	3	0	3	8	0	8	4
14:15 - 15:15	3	0	3	5	0	5	0	0	0	0	0	0	3	0	3	6	0	6	4
14:30 - 15:30	2	1	3	3	1	4	0	0	0	0	0	0	2	1	3	4	1	5	4
14:45 - 15:45	2	1	3	3	1	4	0	0	0	0	0	0	2	1	3	4	3	7	4
15:00 - 16:00 15:15 - 16:15	1	1 2	3	3	1 2	3	0	0	0	0	0	0	2	1 2	3	2	3	6	3
15:15 - 16:15 15:30 - 16:30	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	2	3	5	1
15:45 - 16:45	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	2	1	3	0
16:00 - 17:00	1	2	3	1	2	3	0	0	0	0	0	0	1	2	3	3	2	5	1
16:15 - 17:15	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	1	7	8	2
16:30 - 17:30	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	4	7	11	3
16:45 - 17:45	2	1	3	2	1	3	0	0	0	0	0	0	2	1	3	5	7	12	4
17:00 - 18:00	2	0	2	2	0	2	0	0	0	0	0	0	2	0	2	4	6	10	4
17:15 - 18:15	2	0	2	2	0	2	0	0	0	0	0	0	2	0	2	6	3	9	4
17:30 - 18:30	2	0	2	2	0	2	0	0	0	0	0	0	2	0	2	4	3	7	4
17:45 - 18:45	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	3	3	6	4
18:00 - 19:00	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	3	3	6	4
Peak	4	6	8	5	8	10	0	0	0	0	0	0	4	6	8	8	10	14	8

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



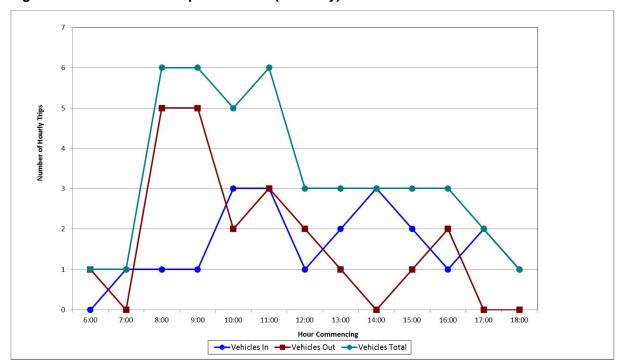


Figure 51 - Site 9 Person Trip Generation (Weekday)

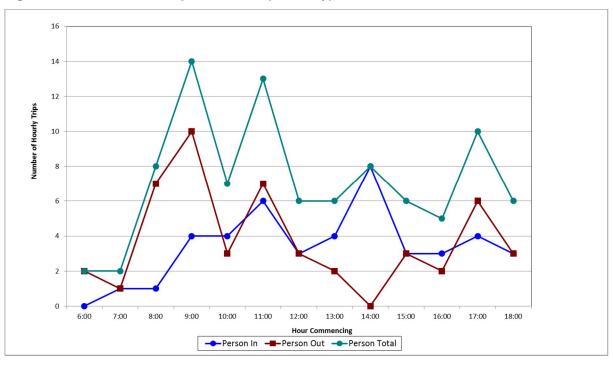


Table 39 - Site 9 Survey Results (Weekday Hourly)

		Comme ehicle		O	ccupar	nts		mmero /ehicle		O	ccupar	nts	Tota	al Vehi	cles	(tal Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
8:00 - 9:00	0	1	1	0	1	1	0	0	0	0	0	0	0	1	1	3	6	9	0
8:15 - 9:15	0	3	3	0	5	5	0	0	0	0	0	0	0	3	3	2	8	10	0
8:30 - 9:30	0	3	3	0	5	5	0	0	0	0	0	0	0	3	3	5	8	13	0
8:45 - 9:45	0	4	4	0	9	9	0	0	0	0	0	0	0	4	4	5	12	17	0
9:00 - 10:00	0	4	4	0	9	9	0	0	0	0	0	0	0	4	4	4	13	17	0
9:15 - 10:15	1	3	4	1	7	8	0	0	0	0	0	0	1	3	4	5	10	15	0
9:30 - 10:30	2	5	7	3	10	13	0	0	0	0	0	0	2	5	7	4	12	16	0
9:45 - 10:45	3	4	7	5	6	11	0	0	0	0	0	0	3	4	7	7	8	15	0
10:00 - 11:00	3	4	7	5	6	11	0	0	0	0	0	0	3	4	7	7	7	14	0
10:15 - 11:15 10:30 - 11:30	2	2	4 2	4	3	7	0	0	0	0	0	0	2	2	4 2	7 6	4	11 6	0
				1		3	0			0				0			0		
10:45 - 11:45 11:00 - 12:00	1	0	1 2	1	0	3	0	0	0	0	0	0	1	0	1 2	2	3	2 5	0
11:15 - 12:15	2	2	4	3	3	6	0	0	0	0	2	2	2	2	4	3	5	8	0
11:30 - 12:30	1	2	3	2	3	5	0	0	0	0	2	2	1	2	3	3	6	9	0
11:45 - 12:45	1	2	3	2	3	5	0	0	0	0	2	2	1	2	3	3	7	10	0
12:00 - 13:00	1	1	2	2	1	3	0	0	0	0	1	1	1	1	2	3	5	8	0
12:15 - 13:15	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	4	6	0
12:30 - 13:30	0	1	1	0	2	2	0	0	0	0	1	1	0	1	1	2	6	8	0
12:45 - 13:45	1	1	2	2	2	4	0	0	0	0	1	1	1	1	2	4	5	9	0
13:00 - 14:00	1	1	2	2	2	4	0	0	0	0	1	1	1	1	2	4	5	9	0
13:15 - 14:15	2	1	3	4	2	6	0	0	0	0	0	0	2	1	3	5	4	9	0
13:30 - 14:30	2	0	2	4	0	4	0	0	0	0	0	0	2	0	2	4	3	7	0
13:45 - 14:45	1	0	1	2	0	2	0	0	0	0	0	0	1	0	1	3	3	6	0
14:00 - 15:00	1	0	1	2	0	2	0	0	0	0	0	0	1	0	1	3	2	5	0
14:15 - 15:15	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	2	3	5	0
14:30 - 15:30	1	1	2	1	1	2	0	0	0	0	0	0	1	1	2	2	2	4	0
14:45 - 15:45	1	2	3	1	3	4	0	0	0	0	0	0	1	2	3	3	5	8	0
15:00 - 16:00	2	3	5	3	4	7	0	0	0	0	0	0	2	3	5	6	7	13	0
15:15 - 16:15	2	2	4	3	3	6	0	0	0	0	0	0	2	2	4	7	6	13	0
15:30 - 16:30	3	2	5	4	3	7	0	0	0	0	0	0	3	2	5	8	5	13	0
15:45 - 16:45	4	1	5	6	1	7	0	0	0	0	0	0	4	1	5	9	2	11	0
16:00 - 17:00	3	0	3	4	0	4	0	0	0	0	0	0	3	0	3	6	0	6	0
16:15 - 17:15	2	0	2	3	0	3	0	0	0	0	0	0	2	0	2	4	0	4	0
16:30 - 17:30	2	0	2	4	0	4	0	0	0	0	0	0	2	0	2	5	0	5	0
16:45 - 17:45	2	2	4	3	2	5	0	0	0	0	0	0	2	2	4	3	3	6	0
17:00 - 18:00	2	4	6	3	5	8	0	0	0	0	0	0	2	4	6	3	6	9	0
Peak	4	5	7	6	10	13	0	0	0	0	2	2	4	5	7	9	13	17	0

Peak 1-hour period for car trips/person trips

All-Day Peak Hour on Adjacent Road



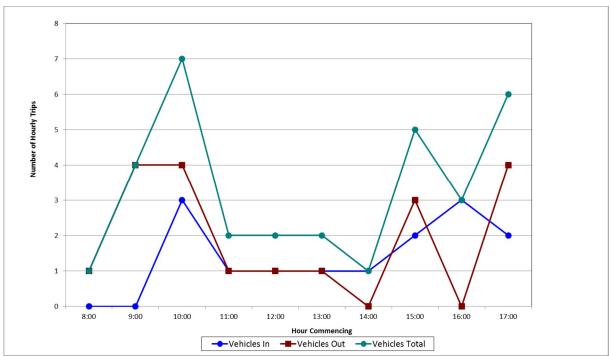
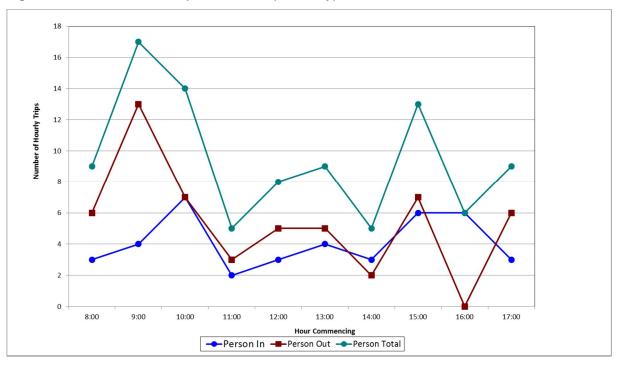


Figure 53 – Site 9 Person Trip Generation (Saturday)



3.1.10 Site 10: 208 Harris Street, Pyrmont

Table 40 - Site 10 Survey Results (Weekday Hourly)

		Comme ehicle		Oc	ccupar	nts		mmero /ehicle		0	ccupar	nts	Tota	ıl Vehi	cles	(al Per includ	е	Visito rs Cars
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT		Outsi
6:00 - 7:00	1N 2	2	4	1N 2	2	4	0	001	0 0	0	001	0	2 2	2	4	3 3	8	TOTAL 11	de 0
6:15 - 7:15	2	4	6	2	4	6	0	0	0	0	0	0	2	4	6	4	15	19	0
6:30 - 7:30	2	6	8	2	6	8	0	2	2	0	2	2	2	8	10	5	17	22	0
6:45 - 7:45	1	11	12	1	11	12	0	2	2	0	2	2	1	13	14	5	31	36	0
7:00 - 8:00	2	14	16	2	14	16	0	2	2	0	2	2	2	16	18	8	35	43	0
7:15 - 8:15	4	13	17	5	13	18	0	2	2	0	2	2	4	15	19	12	44	56	0
7:30 - 8:30	5	15	20	6	15	21	0	0	0	0	0	0	5	15	20	12	56	68	0
7:45 - 8:45	6	14	20	7	16	23	0	0	0	0	0	0	6	14	20	14	69	83	0
8:00 - 9:00	10	13	23	11	15	26	0	0	0	0	0	0	10	13	23	17	74	91	0
8:15 - 9:15	8	11	19	8	13	21	0	0	0	0	0	0	8	11	19	12	63	75	0
8:30 - 9:30	7	6	13	7	8	15	0	0	0	0	0	0	7	6	13	13	46	59	0
8:45 - 9:45	7	3	10	7	3	10	0	0	0	0	0	0	7	3	10	12	24	36	0
9:00 - 10:00 9:15 - 10:15	5 6	1	6 7	5 7	1	6 8	0	0	0	0	0	0	5 6	1	6 7	10 12	16 14	26 26	0
9:30 - 10:30	7	1	8	8	1	9	1	0	1	2	0	2	8	1	9	17	15	32	0
9:45 - 10:45	7	0	7	8	0	8	1	0	1	2	0	2	8	0	8	19	16	35	0
10:00 - 11:00	4	0	4	5	0	5	3	1	4	5	1	6	7	1	8	17	15	32	0
10:15 - 11:15	4	1	5	5	1	6	3	1	4	5	1	6	7	2	9	18	15	33	0
10:30 - 11:30	4	2	6	5	3	8	2	2	4	3	3	6	6	4	10	13	21	34	0
10:45 - 11:45	3	2	5	4	3	7	3	2	5	3	3	6	6	4	10	11	18	29	0
11:00 - 12:00	4	2	6	5	3	8	1	1	2	0	2	2	5	3	8	9	18	27	0
11:15 - 12:15	4	2	6	4	3	7	1	1	2	0	2	2	5	3	8	10	16	26	0
11:30 - 12:30	4	1	5	4	1	5	1	1	2	0	1	1	5	2	7	11	12	23	0
11:45 - 12:45	4	2	6	4	2	6	1	1	2	1	1	2	5	3	8	12	12	24	0
12:00 - 13:00	3	2	5	3	2	5	1	1	2	1	1	2	4	3	7	19	10	29	0
12:15 - 13:15	3	2	5	3	2	5	1	1	2	1	1	2	4	3	7	16	8	24	0
12:30 - 13:30	2	3	5	2	3	5	1	1	2	1	2	3	3	4	7	17	11	28	0
12:45 - 13:45 13:00 - 14:00	1	5 6	6 7	1	5 9	6 10	0	1	1	0	2	2	1	6 7	7 8	18 14	11 16	29 30	0
13:15 - 14:15	0	5	5	0	8	8	0	1	1	0	2	2	0	6	6	14	19	33	0
13:30 - 14:30	0	5	5	0	8	8	0	1	1	0	1	1	0	6	6	11	16	27	0
13:45 - 14:45	0	3	3	0	6	6	0	1	1	0	1	1	0	4	4	11	16	27	0
14:00 - 15:00	0	3	3	0	3	3	0	1	1	0	1	1	0	4	4	10	13	23	0
14:15 - 15:15	0	5	5	0	5	5	0	1	1	0	1	1	0	6	6	14	18	32	0
14:30 - 15:30	2	4	6	3	4	7	1	0	1	1	0	1	3	4	7	19	16	35	0
14:45 - 15:45	4	4	8	5	4	9	1	0	1	1	0	1	5	4	9	19	16	35	0
15:00 - 16:00	5	3	8	7	3	10	2	0	2	2	0	2	7	3	10	24	14	38	0
15:15 - 16:15	6	3	9	9	7	16	2	0	2	2	0	2	8	3	11	23	17	40	0
15:30 - 16:30	6	4	10	8	8	16	1	0	1	1	0	1	7	4	11	25	21	46	0
15:45 - 16:45	4	3	7	6	7	13	1	0	1	1	0	1	5	3	8	23	21	44	0
16:00 - 17:00	5	4	9	8	8	16	0	0	0	0	0	0	5	4	9	22	24	46	0
16:15 - 17:15	7	3	10	11	3	14	0	0	0	0	0	0	7	3	10	27	14	41	0
16:30 - 17:30 16:45 - 17:45	7	5 8	12 16	11 12	5 9	16 21	2	0	1 2	2	0	1 2	8 10	5 8	13 18	28 37	20 22	48 59	0
17:00 - 18:00	8 7	8	15	9	9	18	2	0	2	2	0	2	9	8	17	43	25	68	0
17:15 - 18:15	8	9	17	9	10	19	2	0	2	2	0	2	10	9	19	50	29	79	0
17:30 - 18:30	7	9	16	8	10	18	1	0	1	1	0	1	8	9	17	49	22	71	0
17:45 - 18:45	7	6	13	8	6	14	0	0	0	0	0	0	7	6	13	45	20	65	0
18:00 - 19:00	7	5	12	8	5	13	1	0	1	1	0	1	8	5	13	44	16	60	0
Peak	10	15	23	12	16	26	3	2	5	5	3	6	10	16	23	50	74	91	0

Peak 1-hour period for car trips/person trips

Morning Peak Hour on Adjacent Road



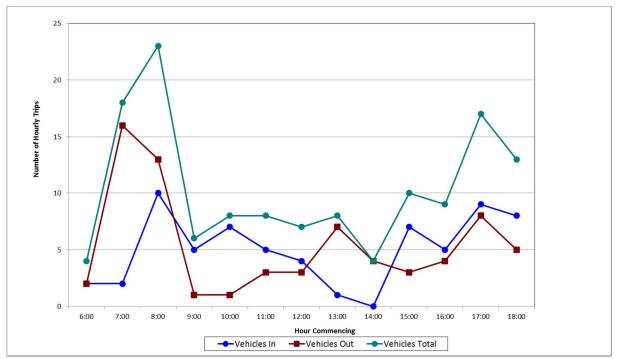


Figure 55 – Site 10 Person Trip Generation (Weekday)

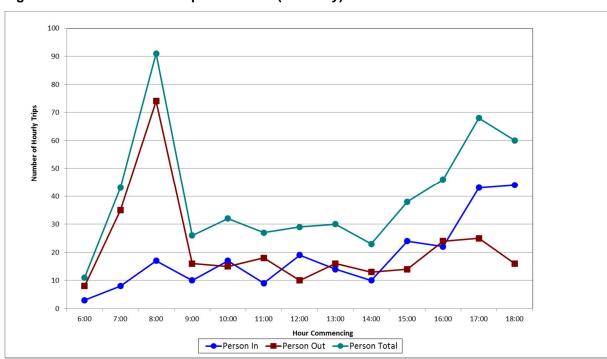


Table 41 - Site 10 Survey Results (Saturday Hourly)

		Comme ehicle		Od	ccupar	nts		mmero /ehicle		0	ccupar	nts	Tota	ıl Vehi	cles	(tal Per includ destria	е	Visito rs Cars Outsi
	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	IN	OUT	TOTAL	de
8:00 - 9:00	6	5	11	6	5	11	0	0	0	0	0	0	6	5	11	13	26	39	0
8:15 - 9:15	7	5	12	7	6	13	0	0	0	0	0	0	7	5	12	14	28	42	0
8:30 - 9:30	7	8	15	8	11	19	0	0	0	0	0	0	7	8	15	17	32	49	0
8:45 - 9:45 9:00 - 10:00	5 3	8 12	13 15	6	11 18	17 22	0	1	1	0	1	1	5	9	14 16	14 13	25 32	39 45	0
9:00 - 10:00 9:15 - 10:15	5	12	17	7	17	24	0	1	1	0	1	1	5	13	18	16	31	45	0
9:30 - 10:30	6	13	19	7	22	29	1	1	2	1	1	2	7	14	21	16	41	57	0
9:45 - 10:45	7	17	24	9	29	38	1	0	1	1	0	1	8	17	25	17	46	63	0
10:00 - 11:00	8	11	19	10	20	30	1	0	1	1	0	1	9	11	20	18	38	56	0
10:15 - 11:15	7	10	17	11	20	31	1	0	1	1	0	1	8	10	18	24	46	70	0
10:30 - 11:30	6	8	14	10	13	23	0	0	0	0	0	0	6	8	14	24	34	58	0
10:45 - 11:45	8	4	12	11	7	18	1	0	1	1	0	1	9	4	13	33	38	71	0
11:00 - 12:00	7	7	14	11	12	23	1	0	1	1	0	1	8	7	15	36	46	82	0
11:15 - 12:15	5	8	13	6	14	20	1	0	1	1	0	1	6	8	14	31	47	78	0
11:30 - 12:30	8	8	16	10	16	26	1	0	1	1	0	1	9	8	17	34	50	84	0
11:45 - 12:45	6	11	17	9	21	30	0	0	0	0	0	0	6	11	17	31	50	81	0
12:00 - 13:00	7	9	16	9	18	27	0	0	0	0	0	0	7	9	16	32	49	81	0
12:15 - 13:15	8	12	20	10	20	30	0	0	0	0	0	0	8	12	20	40	44	84	0
12:30 - 13:30	5	13	18	6	19	25	0	0	0	0	0	0	5	13	18	37	51	88	0
12:45 - 13:45	6	13	19	5	20	25	0	0	0	0	0	0	6	13	19	36	50	86	0
13:00 - 14:00	7	14	21	8	21	29	0	0	0	0	0	0	7	14	21	43	50	93	0
13:15 - 14:15	6	13	19	7	21	28	0	1	1	0	1	1	6	14	20	38	61	99	0
13:30 - 14:30	6	11	17	8	19	27	0	1	1	0	1	1	6	12	18	41	61	102	0
13:45 - 14:45 14:00 - 15:00	6 5	7 5	13 10	10 8	11 8	21 16	0	2	2	0	2	2	6 5	9	15 12	41 30	63 62	92	0
14:00 - 15:00	6	3	9	9	4	13	0	1	1	0	1	1	6	4	10	24	46	70	0
14:30 - 15:30	8	2	10	10	4	14	0	1	1	0	1	1	8	3	11	26	32	58	0
14:45 - 15:45	8	4	12	10	6	16	0	0	0	0	0	0	8	4	12	29	22	51	0
15:00 - 16:00	9	5	14	10	8	18	0	0	0	0	0	0	9	5	14	34	16	50	0
15:15 - 16:15	8	4	12	9	7	16	0	0	0	0	0	0	8	4	12	37	14	51	0
15:30 - 16:30	6	4	10	8	5	13	0	0	0	0	0	0	6	4	10	32	11	43	0
15:45 - 16:45	6	2	8	8	3	11	0	0	0	0	2	2	6	2	8	31	11	42	0
16:00 - 17:00	5	2	7	9	3	12	0	1	1	0	3	3	5	3	8	28	12	40	0
16:15 - 17:15	6	1	7	14	2	16	1	1	2	1	3	4	7	2	9	32	13	45	0
16:30 - 17:30	6	1	7	13	2	15	1	1	2	1	3	4	7	2	9	38	14	52	0
16:45 - 17:45	6	2	8	13	3	16	1	2	3	1	4	5	7	4	11	33	18	51	0
17:00 - 18:00	6	4	10	12	5	17	1	1	2	1	3	4	7	5	12	38	21	59	0
Peak	9	17	24	14	29	38	1	2	3	1	4	5	9	17	25	43	63	104	0

Peak 1-hour period for car trips/person trips



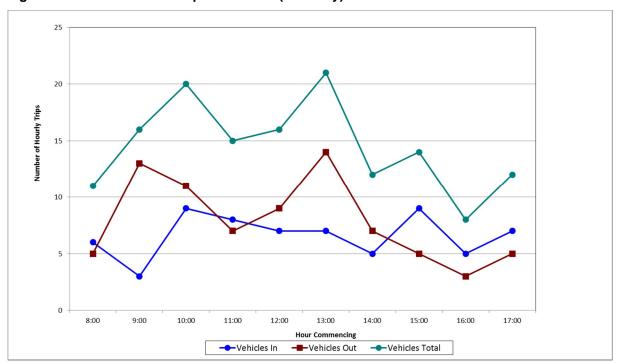
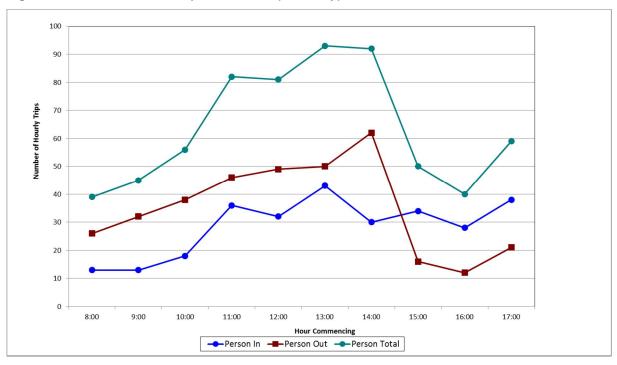


Figure 57 - Site 10 Person Trip Generation (Saturday)

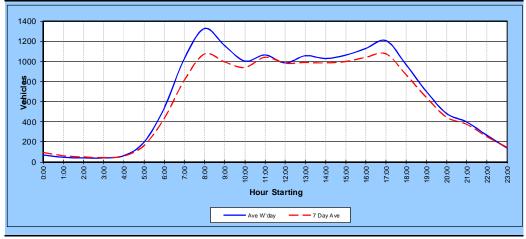


3.2 Automatic Traffic Count (ATC) Survey Results

3.2.1 Site 1: 13 Herbert Street, St Leonards

Road	Herbert Street,		Average Weekday	15968
Location	St Leonards		7 Day Average	14548
Site No.	2		Weekday Heavy's	4.3%
Start Date	Thursday 8-Mar-1	2	7 Day Heavy's	4.4%
Direction	Combined		•	

			C	ay of Week					
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	12-Mar	13-Mar	14-Mar	8-Mar	9-Mar	10-Mar	11-Mar	W'day	Ave
AM Peak	1375	1349	1315	1312	1278	1081	886		
PM Peak	1111	1177	1256	1303	1188	1087	869		
0:00	71	45	65	87	83	150	165	70	95
1:00	39	48	32	56	54	91	111	46	62
2:00	29	43	40	44	45	65	81	40	50
3:00	33	43	39	40	47	56	46	40	43
4:00	61	57	76	64	57	44	51	63	59
5:00	192	206	204	192	190	101	56	197	163
6:00	466	526	555	564	562	221	130	535	432
7:00	1104	858	1113	1032	1029	345	207	1027	813
8:00	1375	1349	1315	1312	1278	572	311	1326	1073
9:00	1141	1131	1176	1204	1125	679	494	1155	993
10:00	762	1095	1051	1079	1022	878	690	1002	940
11:00	1107	1097	1032	1014	1067	1081	886	1063	1041
12:00	1067	1071	1093	1049	639	1087	869	984	982
13:00	966	1034	1116	1031	1130	943	702	1055	989
14:00	991	1047	1025	1012	1063	966	782	1028	984
15:00	1065	1067	986	1077	1113	915	763	1062	998
16:00	1111	1097	1128	1175	1129	831	813	1128	1041
17:00	1098	1177	1256	1303	1188	774	719	1204	1074
18:00	881	957	1048	991	944	635	600	964	865
19:00	553	694	760	756	731	508	482	699	641
20:00	333	520	482	596	476	382	324	481	445
21:00	327	394	464	447	355	321	308	397	374
22:00	173	266	286	276	317	236	205	264	251
23:00	93	99	106	163	224	205	119	137	144
Total	15038	15921	16448	16564	15868	12086	9914	15968	14548
% Heavies	4.7%	4.7%	4.0%	4.1%	4.3%	4.4%	4.7%	4.3%	4.4%



3.2.2 Site 2: 1 Cambridge Lane, Chatswood

Road	1 Cambridge Ln	Average Weekday	13715
Location	Chatswood	7 Day Average	13050
Site No.	0	Weekday Heavy's	7.5%
Start Date	Saturday 3-Dec-11	7 Day Heavy's	6.6%
Direction	Combined	·	

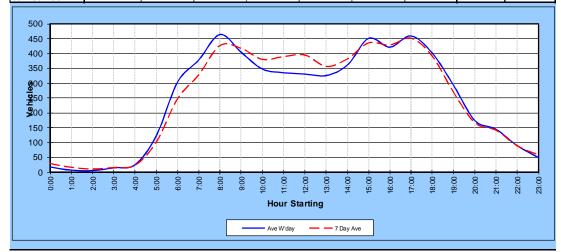
	T		Г	Day of Week				Ī	
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	3-Dec	4-Dec	W'day	Ave
AM Peak	1009	1019	1020	996	9-Dec 954	895	829	vv uay	Ave
PM Peak	1087	980	1093	1196	1058	921	877		440
0:00	85	84	71	92	115	161	178	89	112
1:00	36	36	53	61	73	109	115	52	69
2:00	26	35	35	38	47	72	76	36	47
3:00	24	20	24	21	27	64	45	23	32
4:00	41	38	59	51	57	49	44	49	48
5:00	151	153	163	127	161	87	57	151	128
6:00	432	439	451	423	420	188	101	433	351
7:00	850	868	849	860	807	299	163	847	671
8:00	1009	1019	1020	996	954	635	378	1000	859
9:00	873	899	844	911	822	872	655	870	839
10:00	744	781	838	823	800	884	807	797	811
11:00	729	762	833	866	862	895	829	810	825
12:00	700	800	861	770	860	921	877	798	827
13:00	719	784	761	827	793	911	704	777	786
14:00	818	778	741	654	786	834	688	755	757
15:00	895	877	911	903	946	839	750	906	874
16:00	940	949	1013	1015	987	837	819	981	937
17:00	1087	980	1093	1090	1058	876	815	1062	1000
18:00	1080	926	1048	1196	1018	870	641	1054	968
19:00	586	736	715	1088	729	648	456	771	708
20:00	463	479	514	662	459	421	375	515	482
21:00	409	441	445	555	426	382	326	455	426
22:00	216	310	336	328	353	367	283	309	313
23:00	119	137	151	201	264	263	113	174	178
Total	13032	13331	13829	14558	13824	12484	10295	13715	13050
% Heavies	8.1%	7.5%	7.5%	7.0%	7.6%	4.4%	3.1%	7.5%	6.6%



3.2.3 Site 3: 8-12 Waratah Street, Cronulla

Road	8-12 Waratah Street	Average Weekday	5915
Location	Cronulla	7 Day Average	5941
Site No.	6	Weekday Heavy's	2.5%
Start Date	Saturday 12-May-12	7 Day Heavy's	2.2%
Direction	Combined		

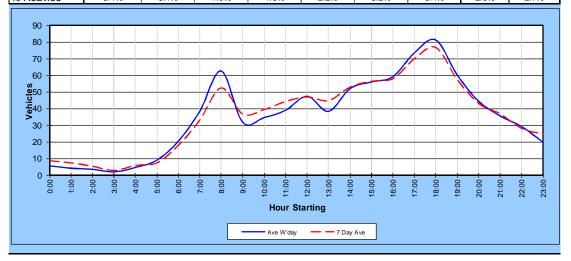
	Ī							ı	
		-		ay of Week			_		
_	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	14-May	15-May	16-May	17-May	18-May	12-May	13-May	W'day	Ave
AM Peak	458	474	507	471	413	562	487		
PM Peak	470	478	445	476	500	526	583		
0:00	22	10	11	18	23	44	72	17	29
1:00	4	2	3	5	16	29	53	6	16
2:00	7	3	6	8	2	28	17	5	10
3:00	8	16	12	21	14	15	21	14	15
4:00	29	19	23	28	25	23	15	25	23
5:00	128	116	125	133	110	63	34	122	101
6:00	280	314	315	294	312	142	72	303	247
7:00	376	361	413	366	373	251	156	378	328
8:00	458	474	502	471	413	368	299	464	426
9:00	367	384	507	409	351	466	436	404	417
10:00	328	358	360	360	329	481	442	347	380
11:00	289	336	347	329	374	562	487	335	389
12:00	298	304	333	351	366	526	583	330	394
13:00	317	313	304	354	339	443	424	325	356
14:00	382	358	341	344	378	424	443	361	381
15:00	414	478	445	476	440	421	374	451	435
16:00	421	432	400	431	422	487	404	421	428
17:00	470	454	432	438	500	491	373	459	451
18:00	380	403	380	429	412	386	342	401	390
19:00	235	308	308	317	294	225	192	292	268
20:00	146	169	201	182	171	137	160	174	167
21:00	120	127	161	167	146	120	146	144	141
22:00	55	82	88	78	141	122	53	89	88
23:00	26	39	29	52	97	134	26	49	58
Total	5560	5860	6046	6061	6048	6388	5624	5915	5941
% Heavies	2.3%	2.5%	2.6%	2.5%	2.6%	1.7%	1.2%	2.5%	2.2%



3.2.4 Site 4: 2-8 Ashton Street, Rockdale

			•
Road	1 Ashton Street	Average Weekday	853
Location	Rockdale	7 Day Average	858
Site No.	1	Weekday Heavy's	2.5%
Start Date	Wednesday 22-Feb-12	7 Day Heavy's	2.7%
Direction	Combined	·	

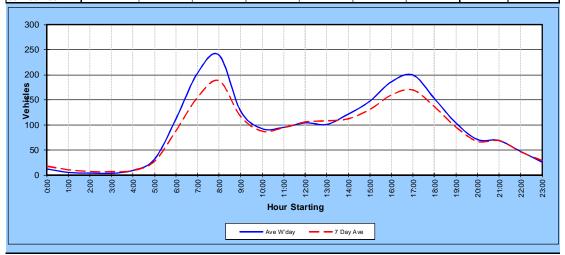
			г	av of Meal					
	Mon	Tue	Wed	Day of Week Thu	Fri	Sat	Sun	A.40	7 Day
T	Mon							Ave	7 Day
Time	27-Feb	28-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	W'day	Ave
AM Peak	74	92	73	74	51	60	65		
PM Peak	82	94	78	85	83	69	66		
0:00	5	9	2	9	3	16	17	6	9
1:00	4	1	8	8	0	19	12	4	7
2:00	4	8	3	3	0	12	8	4	5
3:00	4	0	3	3	0	7	3	2	3
4:00	5	7	4	7	0	2	16	5	6
5:00	13	9	6	17	0	5	2	9	7
6:00	23	29	23	27	0	16	7	20	18
7:00	45	47	57	43	0	21	19	38	33
8:00	74	92	73	74	0	38	16	63	52
9:00	40	38	39	42	0	59	39	32	37
10:00	43	42	29	41	18	60	43	35	39
11:00	33	43	37	31	51	50	65	39	44
12:00	49	38	39	57	54	46	46	47	47
13:00	49	49	26	35	33	60	62	38	45
14:00	65	35	41	65	54	67	43	52	53
15:00	50	72	46	48	64	54	61	56	56
16:00	48	54	58	59	77	63	47	59	58
17:00	82	67	78	67	73	56	66	73	70
18:00	70	94	74	85	83	69	62	81	77
19:00	49	63	57	57	75	59	43	60	58
20:00	49	63	57	0	53	33	47	44	43
21:00	32	46	47	15	38	40	40	36	37
22:00	28	36	26	24	32	30	21	29	28
23:00	11	23	23	10	32	43	30	20	25
Total	875	965	856	827	740	925	815	853	858
% Heavies	3.4%	3.1%	1.9%	1.8%	2.2%	3.2%	3.4%	2.5%	2.7%



3.2.5 Site 5: 26-30 Hassall Street, Parramatta

Road	26-30 Hassall Street	Average Weekday	2259
Location	Parramatta	7 Day Average	2033
Site No.	4	Weekday Heavy's	2.8%
Start Date	Sunday 29-Apr-12	7 Day Heavy's	2.5%
Direction	Combined		

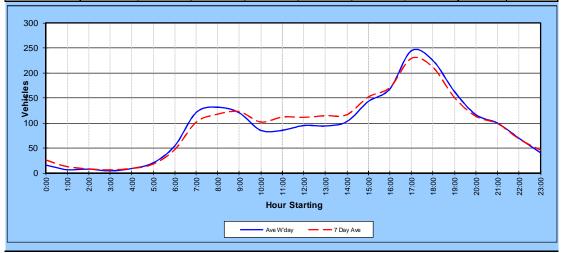
				Day of Week					
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	30-Apr	1-May	2-May	3-May	4-May	5-May	29-Apr	W'day	Ave
AM Peak	252	249	259	226	209	81	113		
PM Peak	205	205	220	188	191	105	153		
0:00	20	13	8	13	7	30	32	12	18
1:00	4	2	3	7	10	20	27	5	10
2:00	2	2	3	5	6	17	13	4	7
3:00	5	3	2	1	6	14	16	3	7
4:00	11	10	11	7	7	5	10	9	9
5:00	31	34	33	31	27	19	15	31	27
6:00	117	127	101	114	100	39	20	112	88
7:00	187	212	238	209	170	42	25	203	155
8:00	252	249	259	226	209	60	60	239	188
9:00	123	129	105	137	143	81	99	127	117
10:00	76	99	98	99	89	80	70	92	87
11:00	98	88	117	71	101	72	113	95	94
12:00	83	91	109	109	128	94	126	104	106
13:00	85	92	116	104	108	98	153	101	108
14:00	118	121	120	118	130	83	94	121	112
15:00	126	152	131	162	165	101	77	147	131
16:00	178	187	209	164	191	102	86	186	160
17:00	205	205	220	188	178	88	102	199	169
18:00	123	162	170	155	151	105	86	152	136
19:00	80	111	123	84	119	85	67	103	96
20:00	56	68	81	76	72	54	60	71	67
21:00	45	63	84	80	72	74	60	69	68
22:00	38	41	39	41	75	49	40	47	46
23:00	23	27	20	15	42	49	26	25	29
Total	2086	2288	2400	2216	2306	1461	1477	2259	2033
% Heavies	2.9%	2.3%	2.7%	2.5%	3.8%	1.2%	1.2%	2.8%	2.5%



3.2.6 Site 5: 10 Wentworth Drive, Liberty Grove

10 Wentworth Drive Average Weekday 2223 Location Liberty Grove 7 Day Average 2265 Site No. Weekday Heavy's 1.3% Start Date Sunday 13-May-12 7 Day Heavy's Combined Direction

			С	ay of Week					
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	14-May	15-May	16-May	17-May	18-May	19-May	13-May	W'day	Ave
AM Peak	130	144	116	143	138	181	175		
PM Peak	192	236	252	232	312	219	173		
0:00	16	15	14	17	18	42	60	16	26
1:00	7	4	9	2	11	31	25	7	13
2:00	10	9	5	11	4	13	8	8	9
3:00	5	3	6	4	4	13	10	4	6
4:00	10	5	7	11	13	9	10	9	9
5:00	21	21	19	20	21	16	7	20	18
6:00	58	60	47	56	50	29	28	54	47
7:00	121	117	110	119	138	54	53	121	102
8:00	130	135	115	143	134	97	68	131	117
9:00	118	144	116	127	96	136	121	120	123
10:00	89	87	87	70	93	170	118	85	102
11:00	80	76	98	77	96	181	175	85	112
12:00	79	108	97	97	94	160	143	95	111
13:00	89	100	89	92	100	165	166	94	114
14:00	96	102	107	91	118	174	128	103	117
15:00	154	146	144	136	135	207	142	143	152
16:00	140	172	157	156	215	195	161	168	171
17:00	192	236	252	229	312	219	163	244	229
18:00	192	220	251	232	228	182	173	225	211
19:00	128	203	155	141	187	132	110	163	151
20:00	108	105	126	127	116	100	110	116	113
21:00	91	104	114	113	77	97	97	100	99
22:00	65	62	71	67	83	81	49	70	68
23:00	26	37	35	37	69	82	34	41	46
Total	2025	2271	2231	2175	2412	2585	2159	2223	2265
% Heavies	1.2%	1.5%	1.2%	1.4%	1.1%	0.6%	0.3%	1.3%	1.0%



3.2.7 Site 7: 2 Everton Road, Strathfield

			•
Road	1 Everton Road	Average Weekday	8945
Location	Strathfield	7 Day Average	8747
Site No.	3	Weekday Heavy's	1.7%
Start Date	Wednesday 14-Mar-12	7 Day Heavy's	1.5%
Direction	Combined	<u>-</u>	

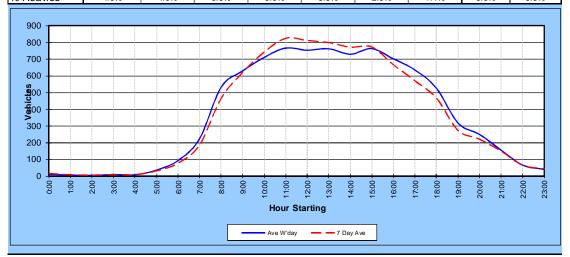
		Day of Week							
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	19-Mar	20-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mar	W'day	Ave
AM Peak	634	565	584	603	624	618	499	1	
PM Peak	637	609	656	650	673	686	595		
0:00	60	71	80	97	101	125	173	82	101
1:00	56	40	41	42	66	99	106	49	64
2:00	25	25	30	26	39	63	74	29	40
3:00	24	25	28	30	27	47	55	27	34
4:00	45	36	36	47	50	57	44	43	45
5:00	114	100	116	99	100	87	60	106	97
6:00	327	333	323	336	300	178	105	324	272
7:00	522	543	551	521	542	227	132	536	434
8:00	634	565	584	603	624	364	210	602	512
9:00	506	561	522	579	583	501	357	550	516
10:00	474	461	448	526	492	595	462	480	494
11:00	425	426	454	469	520	618	499	459	487
12:00	479	512	461	487	489	649	556	486	519
13:00	451	444	431	473	548	636	523	469	501
14:00	510	544	521	525	556	652	586	531	556
15:00	637	586	602	611	602	686	595	608	617
16:00	607	609	618	650	673	574	568	631	614
17:00	635	609	620	644	641	643	553	630	621
18:00	602	561	656	604	627	600	479	610	590
19:00	456	455	500	532	654	415	371	519	483
20:00	303	359	354	472	457	321	310	389	368
21:00	263	342	326	441	372	330	290	349	338
22:00	217	258	237	270	354	308	243	267	270
23:00	136	145	154	160	253	239	140	170	175
Total	8508	8610	8693	9244	9670	9014	7491	8945	8747
% Heavies	1.8%	2.0%	1.4%	1.7%	1.6%	1.1%	0.9%	1.7%	1.5%



3.2.8 Site 8: 316 Charlestown Road, Charlestown

Road	5 Chapman Street	Average Weekday	8702
Location	Charlestow n	7 Day Average	8581
Site No.	5	Weekday Heavy's	3.8%
Start Date	Saturday 12-May-12	7 Day Heavy's	3.3%
Direction	Combined	-	

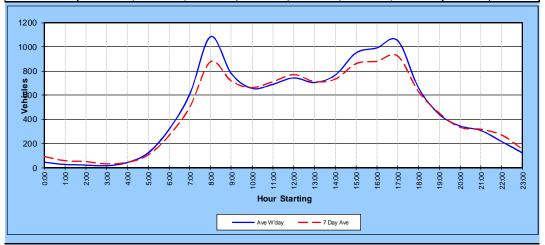
	ı							<u> </u>	,
	Day of Week								
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	14-May	15-May	16-May	17-May	18-May	12-May	13-May	W'day	Ave
AM Peak	705	689	764	773	894	1213	728		
PM Peak	708	732	762	1077	845	1124	793		
0:00	9	11	9	11	8	23	36	10	15
1:00	3	6	8	3	7	10	12	5	7
2:00	3	3	4	3	5	5	8	4	4
3:00	11	8	8	10	8	11	3	9	8
4:00	8	5	5	9	8	8	7	7	7
5:00	41	41	33	33	27	20	16	35	30
6:00	85	92	101	95	87	42	33	92	76
7:00	215	214	230	233	220	104	82	222	185
8:00	519	536	551	530	514	439	157	530	464
9:00	610	631	642	674	583	760	434	628	619
10:00	679	650	748	729	739	1031	612	709	741
11:00	705	689	764	773	894	1213	728	765	824
12:00	669	732	699	816	845	1119	793	752	810
13:00	703	701	729	831	841	1124	656	761	798
14:00	687	641	720	773	821	1069	686	728	771
15:00	708	713	762	785	841	939	653	762	772
16:00	617	624	623	896	742	684	473	700	666
17:00	525	558	523	987	577	516	298	634	569
18:00	310	356	368	1077	513	383	252	525	466
19:00	172	183	199	746	284	216	109	317	273
20:00	94	120	109	635	282	170	128	248	220
21:00	77	88	87	364	157	182	84	155	148
22:00	31	49	48	100	97	86	37	65	64
23:00	25	41	22	45	62	84	22	39	43
Total	7506	7692	7992	11158	9162	10238	6319	8702	8581
% Heavies	4.5%	4.0%	3.8%	3.3%	3.8%	2.3%	1.4%	3.8%	3.3%



3.2.9 Site 9: 3-5 Corrimal Street, Wollongong

Road	3-5 Corrimal Street	Average Weekday	11697
Location	Wollongong	7 Day Average	11144
Site No.	8	Weekday Heavy's	3.1%
Start Date	Monday 28-May-12	7 Day Heavy's	2.6%
Direction	Combined	-	

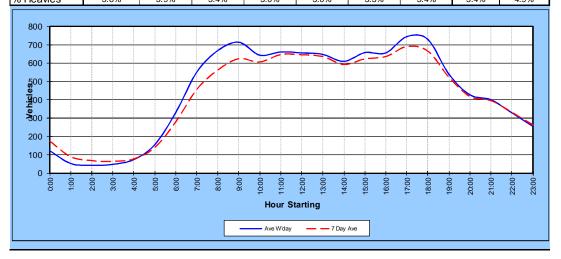
		Day of Week							
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	28-May	29-May	30-May	31-May	1-Jun	2-Jun	3-Jun	W'day	Ave
AM Peak	1045	1067	1103	1143	1056	840	690	-	
PM Peak	1014	1018	1094	1133	1018	868	805		
0:00	48	32	32	51	63	160	261	45	92
1:00	19	21	26	28	37	116	158	26	58
2:00	21	17	12	20	38	83	159	22	50
3:00	15	16	14	19	19	31	105	17	31
4:00	44	44	39	42	45	45	50	43	44
5:00	109	119	126	128	129	67	54	122	105
6:00	289	319	343	332	300	168	109	317	266
7:00	576	651	618	590	603	298	170	608	501
8:00	1045	1067	1103	1143	1056	490	234	1083	877
9:00	784	740	786	778	795	685	441	777	716
10:00	638	687	569	708	674	772	592	655	663
11:00	606	645	691	712	792	840	690	689	711
12:00	764	711	719	726	790	868	805	742	769
13:00	724	705	669	694	729	830	633	704	712
14:00	736	763	789	722	819	718	579	766	732
15:00	887	931	959	951	1018	704	573	949	860
16:00	979	960	1047	989	977	671	535	990	880
17:00	1014	1018	1094	1133	995	715	494	1051	923
18:00	584	666	632	680	746	707	396	662	630
19:00	397	373	454	473	504	633	319	440	450
20:00	282	293	349	402	398	333	279	345	334
21:00	247	274	281	341	391	459	226	307	317
22:00	134	156	193	241	358	632	182	216	271
23:00	67	86	112	102	245	381	75	122	153
Total	11009	11294	11657	12005	12521	11406	8119	11697	11144
% Heavies	3.0%	3.3%	3.1%	3.1%	2.9%	1.3%	1.1%	3.1%	2.6%



3.2.10 Site 10: 208 Harris Street, Pyrmont

Road	209 Harris Street	Average Weekday	10717
Location	Pyrmont	7 Day Average	10215
Site No.	9	Weekday Heavy's	5.4%
Start Date	Tuesday 17-Jul-12	7 Day Heavy's	4.9%
Direction	Combined	-	

		Day of Week							
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Ave	7 Day
Time	23-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	W'day	Ave
AM Peak	716	719	744	742	690	689	534		
PM Peak	738	727	737	793	774	666	580		
0:00	128	74	115	132	164	280	335	123	175
1:00	39	42	47	69	66	165	199	53	90
2:00	35	29	40	71	41	131	133	43	69
3:00	41	50	42	62	46	106	105	48	65
4:00	90	70	68	76	66	81	93	74	78
5:00	143	167	170	156	142	114	88	156	140
6:00	260	342	363	342	352	181	122	332	280
7:00	500	605	584	538	527	267	178	551	457
8:00	710	719	648	651	614	358	237	668	562
9:00	716	686	744	742	682	439	360	714	624
10:00	627	638	624	677	651	597	429	643	606
11:00	640	664	664	648	690	689	534	661	647
12:00	594	665	643	694	684	664	577	656	646
13:00	603	660	650	656	667	666	548	647	636
14:00	587	630	641	579	613	611	489	610	593
15:00	643	629	690	663	662	569	507	657	623
16:00	641	623	637	665	713	593	580	656	636
17:00	738	713	737	793	743	623	486	745	690
18:00	681	727	714	749	774	583	432	729	666
19:00	450	488	607	520	634	596	371	540	524
20:00	362	375	444	441	515	454	336	427	418
21:00	313	402	397	448	442	492	275	400	396
22:00	241	289	348	348	416	464	218	328	332
23:00	158	205	284	259	371	411	155	255	263
Total	9940	10492	10901	10979	11275	10134	7787	10717	10215
% Heavies	5.8%	5.9%	5.4%	5.0%	5.0%	3.5%	3.4%	5.4%	4.9%



Appendix A – Questionnaire Summary Sheets

Site 1: 13 Herbert Street, St Leonards

			Answer Key					
Q1 Q2 Q3 Q4	Q5		Q6		Q7	Q8	Q9	Q10
	1 = Car (driver)	1 = Yes		1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
	2 = Car (Passenger)	2 = No (if no, go to Q	uestion 8)	2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
	3 = Cycle			_	3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
	4 = Moto	rcycle			4 = Motorcycle	1	4 = 16 - 30 minutes	4 = 16 - 30 minutes
	5 = Train				5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
	6 = Bus				6 = Bus	1	•	
	7 Well-				7 Malk	1		

Serial Number	Q1 - How many people are currently living in your unit?	Q2 - How many cars do these residents have parked either on- site or nearby on- street?	Q3 - How many on-site parking spaces does your unit have allocated?	Q4 - How many bedroom are in your unit?	/		al number of t	trips made by a	III residents of		the primary mod	des of travel:	Q6 - Did you have visitors to your unit today?	travelled to y	se indicate how visitors our unit (indicate number if nore than one)	today to		your unit (b	nber of trips by residents	as well as		Q9 - If you walked between public transport and your unit today, what was the duration of the walk?	unit and your final destination (e.g. work,
							•									7am		12noon	5pm				
24	1	0	0	1	2				5				2					1		1		1	1
102	3	1	1	1 (studio)	3				5				1	1	7		2	2	2	2		2	NA
101	3	0	1	2	2	4			3	5			2				3		3			1	NA
100	1	1	0	1	2				1				2				1		2	1		1	1
99	2	1	1	1	2	2			1	2			2			1		1	1	1			NA
97	1	0	1	1	1				5				2					1	1			1	1
96	2	1	1	1	2	2			1	2			2				2		2			2	5
95	2	0	0	1	2				5				2				1		1			1	2
94	3	2	2	3	2	4			1	5			2					3			3	1	5
93	4	0	2	3	6				5				2					3	3			1	1
92	2	0	0	1	2				5				2				1		1			1	5
91	2	1	1	2	1				5				2						2			1	4
89	1	0	0	1	1				7				2				1		2		1		1
90	1	0	0	1	1	1			5	7			2				1		1			1	2
85	1	0	0	1	1	1	1		5	6	7		2					1				1	5
88	3	1	1	3	1	1	1		1	5	1 1		2				1		1			1	1
98	2	1	1	1	2		1		5				2			1			1			1	5
86	2	1	0	1	1	1	2	_	1	2	5		2				2		 	2	1	1	5
81	1	0	0	1	2	2	2	_	5	6	7		1	1.1	1,2		1	2	2	1	1	1	3
82	1	Ů	Ů	1	1	-	-		5	<u> </u>	 ' 		2	-,,,	1,2		1	-	-	<u> </u>	<u> </u>	1	5
83	2	1	1	2	2	2			5	7			2				1		1			1	2
78	2	2	1	0	1	1	1	1	1	5	6	7	2				<u> </u>	2	<u> </u>	1	1	1	3
77	2	1	1	1	2	· ·	<u> </u>	 '	5		+ <u> </u>		2				2	-		2	+ '-	1	1
84	3	1	1	2	4		1	+	7	1	1		2				2	2		-		1	1
57	1	0	1	1	2		1	+	5	1	1		1	1.1	1,2		3			<u> </u>	3	1	5
44	1	0	0	1	1	<u> </u>	1	+	7	1	1		1	1,1	1,2		-		1	 	- 3	2	3
56	1	1	1	1	1	1	l	+	5	1	1		2	1,1	1,4		1	1	+ '	1	1	1	5
41	1	0	0	1	1	1	1	+	5	6	7		2	-			<u> </u>	1	2	 	+ '	2	3
47	1	1	1	1	1	- '	- '-	+	1	- "	- '		1	2	1	1	1	1	1	1	1	1	3
111	2	1	1	2	1	1		_	1	5	 		1	1	1		1	-	1		-	1	NA NA
110	1	0	0	1 (studio)	1	- '-	-	+	7	1 3	+ +		2	'	'		'	1	2	1	1	1	NA 1
109	2	0	0	1 (studio)	1	-	-	+	6	1	+		2	-					2	1	-	1	1
	2	1	2	, ,	2 (today)	-	-	+	5	1	+		2	-				1		1	-	1	1
108		-	1	3	. ,,		-	-		-	+			-				1	1	 	-	· · · · · · · · · · · · · · · · · · ·	4
104	3	1	·	2	10 (per week)		-	+	5	1			2	-			-		1	1	1	2	· ·
103	1	0	0	1	10 (per week)	-	-	+	5	1	+		2	 				1	1	-	-	2	5
107	1	-	-		10 (per week)		-	+	ı	1					1			1	1	1	4 (1==+=: 1:	· · · · · · · · · · · · · · · · · · ·	
105	1	1	0	1	(to and from w	,	I	+	1	-			1	1	1		1		+ .	1	1 (last night		Not answered
106	3	2	2	3	20	10 (per week)			5	7			2					1	1			1	5

Site 2: 1 Cambridge Street, Chatswood

									Answer Key						
Q1	Q2	Q3	Q4	Q5	;				Q6	Q7			Q8	Q9	Q10
				· ·		1 = Car (driver)			1 = Yes		1 = Car (driver)			1 = 0 - 5 minutes	1 = 0 - 5 minutes
						2 = Car (Passenger)			2 = No (if no, go to Question 8)		2 = Car (Passenge	r)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
						3 = Cycle					3 = Cycle			3 = 11 - 15 minutes	3 = 11 - 15 minutes
						4 = Motorcycle					4 = Motorcycle			4 = 16 - 30 minutes	4 = 16 - 30 minutes
						5 = Train					5 = Train			5 = More than 30 minutes	5 = More than 30 minutes
						6 = Bus					6 = Bus				
						7 = Walk					7 = Walk				
						9 = Other (specify)	_				9 = Other (specify)				

Serial Number	people are currently livin	g parked either on-	on-site parking	Q4 - How many bedroom are in your unit?			Q5 - Please indicate	the total number of	f trips made by all residents	s of your unit, and the prima	ary modes of travel:		Q6 - Did you have visitors to your unit today?	Q7 - Pleas	e indicate how vi	sitors travelled to	your unit (indic	ate number if more t	nan one) Q8	8 - Please indic to or from	ate the number	r of trips by ar residents as w	ny mode made toda ell as visitors)	DQ9 - If you walked between public transport and your unit today, what was the duration of the	Q10 - If you walked directly between your unit and your final destination (e.g. work, school, uni, etc) today, what was the duration of the
	in your unit?	site or nearby on- street?	allocated?			Numb	er of trips			Primary mo	odes of travel				Number			Visitor travel mode	В :	Before 7am	9am- 12noon	12noon- 5pm	5pm-7pm After 7pi	walk?	walk?
78	2	1	1	2	1	1			1	2			2							1				1	5 (10 hours)
79	3	2	2	3									2							1				1	
80	3	1	2	3	1	2			1	7			2							2				1	3
81	1	0	0	1					5				1	2			5			1			1	1	
83	2	1	1	7					1	5	7		1				5	7		1			1	1	5
85	3	2	2	3	2	1			1	5			2							2			1 1	1	
85 88	3	1	1	3	2				5				2							1				3	4
89	4	2	2	3	2	1	1		1	5	7		2							2				1	4
90 91	3	1	2	3	1	2			5	7			2							1		1	1	1	2
91	3	2	2	3	2	1			1	7			1	1			1			2	2		1 1	1	1
92	2	1	1	2	1	1			1	7			2							1		1		1	1
92 93	2	1	1	2	1	1			1	7			2							1		1		1	1
94	5	2	2	3	2	1			1	5			2							1		1	1	3	3
95	3	1	2	3	1	2			1	7			2									3	3		2
96	3	1	1	3	1	1	1		1	2	6		2							3		1	2	1	
97	2	1	1	1	1	1			1	5			2							1 1		1		1	5
99	2	1	1	1	1	1			1	7			2							2		2			1
98	4	2	1	3	2	1	1	1	1	2	5	6	2							2			2 2	1	
100	2	1	1	2	2	2			1	7			1	1			7				2	2	2		2
176	4	3	3	3	4	4			5	7			2							1		1	1 1	1	
104	2	1	1	2	4				7				2								1	2	1	2	 (Because Mirvac blocked the pedestrian road need to cross 4 traffic lights instead of 1)
112	2	1	2	3	1				7				2									1			3
2	4	1	1	3	2	2			5	7			1	1	1		1	7		2	1	1		1	2
82	2	0	0	1	8				7				2							2	1	2	1 2		1
136	2	2	2	2	4	2			1	7			2							4			2	1	
1	2	1	2	3	2	2			1	2			1	1	2	3	1	6	7		2		2 3	1	1
42	4	2	2	3	2	8	8		1	5	7		2				1	5			2	4	2 2	2	5
46	3	1	1	3					1				2								1			1	3
12	2	0	0	1	2				5				2							2	3	3	2	1	1
4	5	2	1	2	2	2	2		1	2	7			2			1	2	5	1	2	2		2	
29	3	1	1	1					1	5							5	6		1				2	2
6	2	1	1	2	1	1	1	1	1	2	5	7	2							2			2	1	
36	4	1	1	3	4				5				2											1	2

Site 3: 8-12 Waratah Street, Cronulla

					Answer Ke	ә у			
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
				1 = Car (driver)	1 = Yes	1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
				2 = Car (Passenger)	2 = No (if no, go to Question 8)	2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
				3 = Cycle		3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
				4 = Motorcycle	1	4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
				5 = Train]	5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
				6 = Bus	1	6 = Bus			_
				7 = Walk	1	7 = Walk			
				9 = Other (specify)		9 = Other (specify)			

Serial Number	Q1 - How many people are currently	these residents have narked	Q3 - How many on-site parking spaces does your unit have	Q4 - How many bedroom are in	made by all resid	te the total number of trips lents of your unit, and the modes of travel:	Q6 - Did you have visitors to	travell	ase indicate how visitors ed to your unit (indicate ber if more than one)					s by any mode made s as well as visitors)	Q9 - If you walked between public transport and your unit	Q10 - If you walked directly between your unit and your final destination (e.g. work, school,
rumbor	living in your unit?	street?	allocated?	your unit?	Number of trips	Primary modes of travel	your unit today.	Number	Visitor travel mode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm After 7pm	today, what was the duration of the walk?	uni, etc) today, what was the duration of the walk?
26	2	5	8	3		6,7		3	1,2						4,5	5 (more to hospital)
28	3	3	2	3	4,2	1,7	2			2	1	1	1	1		
171	1	1	2	3	2,1	1,6	1	1,1,1	1,2,7			2	1		3	
5	2	2	1	2	2,2	1,7	1	1,1	1,2			1	2	1	5	
154	1	0	2	3			2				1		1		3	3
177	2	1	1	2						1		3			1	2
8	2	1	1	3	2,2,3	1,5,7	1	1,4	1,2	1						
4	2	1	1	2	1,1,4	1,2,7	1	1	7	2		2	2			5
169	2	1	2	3	1,1	1,2	2				1				1	1
21	1	1	1	2	1,1	1,7									2	4
22	2	1	2	2	3,5	1,7						1			2	2
23	2	2	2	3	4,7	1,7									1	3
24	2	1	2	2	1,1	1,7									1	3
25	1	1	1	2	3 (per week)	7						1			2	4
175	1	1	1	2		7	2		7		1	1			2	2
2	1	0	2	2	1	2	1	5,2	1,2		.	1	.		1,3,5	1,3,5
168	2	1 2	1 2	3	2	7	1	1	1	2	1		1			3

Site 4: 2-8 Ashton Street, Rockdale

		Answer K	Key				
Q1 Q2 Q3 Q4 Q5			Q6	Q7	Q8	Q9	Q10
	1 = Car (driver)	1	1 = Yes	1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
	2 = Car (Passenger)		2 = No (if no, go to Question 8)	2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
	3 = Cycle			3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
	4 = Motorcycle			4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
	5 = Train			5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
	6 = Bus			6 = Bus			
	7 = Walk			7 = Walk			
	9 = Other (specify)			9 = Other (specify)			

Q1 - How many people are currently living in your unit?	Q2 - How many cars do these residents have parked either on- site or nearby on-	Q3 - How many on-site parking spaces does your unit have	Q4 - How many bedroom are in your unit?		Q5 - Please	e indicate the to	otal number of	trips made by a	II residents of y	our unit, and th	e primary mod	des of travel:		Q6 - Did you have visitors to your unit today?	travelled to y	se indicate how visitors our unit (indicate number if nore than one)					any mode n well as visit		was the duration of the	and your final destination (e.g. work, school,
iii your uiiic.	street?	allocated?				Number of trip	s			Prin	ary modes of	travel			Number	Visitor travel mode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm	After 7pm	walk?	wait.
2	1	1	2	1	1				7					2						1				1
1	0	1	2	1					7					2						1				
3	2	1	2	2	1				1	2				1		1,2		1			1		4	5
3	2	1	2	2	2	4	4		1	4	5	7		2				3	1	1	3		3	3
4	2	1	2	1	1				5	6				2		1,6					1		3	5
6	2	1	2	2					5					2								2	3	5
2	1	1	2						7					2									1	2
4	2	1	2						5					1		7						2	3	5
2	1	1	2	2					2					2					2				3	1
2	2	1	2	2	3				1	5				2				1					3	3
3	1	1	3	2					5					2						2			3	5
1	1	1	2	3 to 4					1					2			3						3	5
3	1	1	2	2 (bus)					5	6				2				2					3	4
3	1	1	2	2					1					2			2							
4	1	1	2	2 to 3					1	5				2						2				4
3	2	1	2	2 to 3					1					2				2						
5	1	1	2						1	2	5	6	7	1		1,2	1		1			1	4	4
2	6	0	2						7					2		5				1			1	2
4	Doesn't know	Doesn't know	2	4					2	5	6			2	2	5				1			2	1
4	Doesn't know	Doesn't know	2						1	5	6	7				5		2					2	
4	1	1	2						1	5	6			2		1,2,5,6		1			1	1	3	5
4	1	2	3	1	2	2			1	5	6			1		1,2,5,6						4	5	5
3	1	1	2	2	2				5	6				2	1,2,2	1,5,6						3	5	5
5	4	2	3	1	1	3	2		1	2	5	7		2	1,1,1	1,5,6					1	1	5	5
2	1	1	2	1	2	2			1	5	7			2	1,2,2	1,5,6					1	2	5	5
4	2	1	3	1	2	2			1	5	7			2	1,1,1,2	1,5,6,7				1		1	1	5
2	1	1	2	2	2				1	7				2					2	2			1	2
4	1	3	3	2	2	6	7	7	1	2	5	6	7	2						2			1	1
4	1	1	2	2	6	1	2		1	2	5	7		2				5		5	1		4	1
3	2	2	2	2					5	6				2						1		1	1	1
4	2	1	2	1	2	1	1	3	1	2	5	6	7	2			1	1		1	1		3	5
4	2	1	3	2					6					1	2	6				2		3	2	2
4	2	2	2	1	1	1	1		2	3	5	6		1	1,1,1,1	1,2,5,6				2		2	5	2
4	1	2	2	1	1	2	1		1	2	5	7		1	1,1	1,2				2	2		5	4
5	1	2	3	1	1	2	2		1	2	5	6		1	1,1,1,1	1,2,5,6				3		3	5	4
4	2	1	2	2	1	1			1	5	6			2					2			2	5	3
2	1	1	2	1	1	1	1		1	2	5	7		2			1			1	1		3	5
1	1	1	2	1					1					1		1,7		1		1	1		1	5
3	1	1	2	3	2	2			1	2	7			1	1	2		1		2		1	1	4
2	1	2	2	1	1				3	6				2						1		1	1	1
3	2	1	2	1	1	1			1	2	3			1	2	5				3	2		2	1
2	2	2	2	1					3					2						1			1	1
4	2	2	2	2					5			1	1	1	1	5	1		1	1	1	1	1	1

Site 5: 26-30 Hassall Street, Parramatta

							Answ	er Key			
Q1	Q2	Q3	Q4	Q	5		Q6	Q7	Q8	Q9	Q10
					1 = Car (drive	er)	1 = Yes	1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
					2 = Car (Pas	senger)	2 = No (if no, go to Question 8)	2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
					3 = Cycle			3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
					4 = Motorcyc	e		4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
					5 = Train	1		5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
					6 = Bus	1		6 = Bus			
					7 = Walk	1		7 = Walk			
					9 = Other (sp	ecify)		9 = Other (specify)]		

Serial Number		residents have parked either on-	Q3 - How many on-site parking spaces does your unit have	Q4 - How many bedroom are in			otal number of d the primary			s of your unit,	Q6 - Did you have visitors to your unit today?	travelled to yo	e indicate how visitors our unit (indicate number if nore than one)					any mode s well as visi	made today itors)	Q9 - If you walked between public transport and your unit today, what was the duration of the	uni, etc) today, what was the duration of the
	in your unit?	site or nearby on- street?	allocated?	Joan anni	1	Number of trip	os	Prim	ary modes of	travel		Number	Visitor travel mode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm	After 7pm	walk?	walk?
84	1	1	1	2	1			1			2						1			2	5
145	2	0	1	2	1	1		5	7		2					1	1	1		1	5
146	2	0	1	2	1			7			2							1		5	4
147	3	1	1	2	4			7			2					1	2	1		3,5	5
148	2	0	1	2	1	1		6	7		2					1				1	5
149	2	0	0	1	2	2		5	7		2			2			2			1	5
150	2	1	1	3	2			7			2						1	1		2	2
151	2	0	0	1	2	2 (day)		5	7		2					1	1			1	5
152	4	1	1	3	1	3	1	1	5	6	2			1	2		1			1	NA
2	2		1	2	1	1		1	6		2				1	1				2	4,5
18	4	0		1				7												2	5
25	3	1	1	2	2	2		1	2	5	2				2			2		1	2
27	3	1	1	2				1	5	6	2									1	5
40	2	1	1	2				1	5		2				4					1	5
155	3	1	1	3	1	1		1	7		2						2	2		1	1
97	2	2	1	2	1	1		6	7		2					2		2		2	2
87	2	0		2	2			6			2				2			2		1	5
93	5	2	2	3	2			7			2					1	1			2	5
86	2	1	1	2	4			1			2				2			2		1	5
88	2	1	1	2	2			5			2				7			1		1	5
89	2	1	1	2	1	1		5	7		2				2		7	1		1	3
90	2			2	1	1		6	7		2				1	1		2		1	3,4
94	2	1	1	2	1	1		1	7		2				1	1	2			1	1
91	4	2	1	3	3			1			2				2	1	2		1	1	1
85	1	1	1	2	2			5			2				1			1		1	5
92	4			3	2			5			2				7			1		2	5
96	4	1	1	3	2			5			2					1	1			1	5
95	4	1	1	5	2	2		1	7		1		5	1			1			1	5
156	4	1	2	3	2	2		1	5		2				2		1	1		1	5
98	5	1	1	3	2	2	2 (daily)	1	5	7	2			1				1		1	1

Site 6: 10 Wentworth Drive, Liberty Grove

									A	nswer Key				
Q1	Q2	(23	Q4		Q5			Q6		Q7	Q8	Q9	Q10
							1 = Car (drive	r)	1 = Yes		1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
							2 = Car (Pass	enger)	2 = No (if no, go to Question 8)		2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
							3 = Cycle				3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
							4 = Motorcycle	Э			4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
							5 = Train				5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
							6 = Bus				6 = Bus			
							7 = Walk				7 = Walk			
							9 = Other (spe	ecify)			9 = Other (specify)			

Serial Number	Q1 - How many people are currently living in your	parked either on-	your unit have		Q5 - Please	indicate the to your unit, and	tal number of tr			Q6 - Did you have visitors to your unit today?	travelled to y	se indicate how visitors our unit (indicate number if nore than one)		ease indica to or from y					Q9 - If you walked between public transport and your unit today, what was the duration of the	Q10 - If you walked directly between your unit and your final destination (e.g. work, school, uni, etc) today, what was the duration of the
	unit?	site or nearby on- street?	allocated?		Numbe	er of trips	Prin	nary modes of	travel		Number	Visitor travel mode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm	After 7pm	walk?	walk?
142	2	1	2	2	1	1	1	2		2						1			1	1
212	2	1	1	2	1	1	1	5		2			2			1	1		3	NA
16	1	1	2	3	1		1			2						1				1
220	4	1	2	3	2	2	1	7		2				1	2		1			2
239	3		1	2			7			1									1	1
238	5			3			5			2									2	5
237	3	2	2	3			1			1		1							1	1
236	6	1	2	4			2			2									5	
235	3	1		2			1			2									3	3
232	4	2	1	3			1	2		2									2	3
231	2	1	1	2			1			2									2	3
230	4	2	2	1			1	7		2									3	4
229	4	2	2	3			1	5	7	2									3	3
228	4	1	1	2			1	7		2									3	4
227	3	2	1	2			1			2									3	2
225	3	1	1	2			1			2									3	
226	4	2	1	3			1			2									2	
245	2	1	1	2			5			2									2	4
30	2	2	1	2			5			2									4	3
37	4	3	2	3			1			1		1							5	5
36	4	1	1	2			1			1		7							3	4
38	2	1	1	2			5			1		1							5	5
31	4	1	2	3			5			1	2	1							3	5
32	2	2	1	2			1			2									5	5
33	5	2	2	3			3		1	2									5	5
35	4	2	2	3			1	2		1		1,2							3	5
29	4	3	2	3			1	2		2									3	
180	2	1	1	2			1			2										
27	3	0	0	2			7		1	2									2	4
151	3	2	2	3			1	5		2									2	2
152	4	1	2	3			1			2					1				3	4
143	5		1	2	2		1			2				2			1		2	3
14	2	1	1	2	4	2	1	2		2			l .	2	2		1	1		

Site 7: 2 Everton Road, Strathfield

						Answer Key				
Q1	Q2	Q3	Q4	Q5		Q6	Q7	Q8	Q9	Q10
					1 = Car (driver)	1 = Yes	1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
					2 = Car (Passenger)	2 = No (if no, go to Question 8)	2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
					3 = Cycle		3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
					4 = Motorcycle		4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
					5 = Train		5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
					6 = Bus		6 = Bus			
					7 = Walk		7 = Walk			
				I	9 = Other (specify)		9 = Other (specify)	7		

Serial Number	people are currently living	Q2 - How many cars do these residents have parked either on-	on-site parking spaces does	Q4 - How many bedroom are in your unit?		cate the total n		nade by all re of travel:	esidents of your un	it, and the primary	Q6 - Did you have visitors to your unit today?	travelled to y	se indicate how visitors rour unit (indicate number if more than one)				any mode made today well as visitors)	Q9 - If you walked between public transport and your unit today, what was the duration of the	uni, etc) today, what was the duration of the
	in your unit?	site or nearby on- street?	allocated?	your unit:	N	Number of trips			Primary modes	of travel		Number	Visitor travel mode	Before 7am-9a 7am	m 9am- 12noon	12noon- 5pm	5pm-7pm After 7pm		walk?
103	1	1	31	2	1	1		1	2		2							1	1
104	3	1		2	1	1	1	1	2	5	2			1				1	5
132	1	1	1	2	2			1			2			1			1	1	4
133	2	1	1	2	14			1			2				1	1			3
134	1	1	1	2	3	3		1	5		2				1	1		1	5
135	4	0	1	2	14	14		5	6		2			4		4		1	5
136	4	0	1	2	14			5			2			4		4		2	5
137	4	1	1	2	14			5			2			1			1	1	3
138	4	0	1	2	14	14		5	6		2			3			3	1	5
139	4	0	1	2	1 (per month)	7		1	5		2			1 3		3	1	1	2
140	4	0	1	2	14	14		5	6		2			1			1	1	3
159	3		1	2	12 (per week)			5			2			3			3	1	5
161	2			2	2			7			2				2		2	1	2
163	2		1	2	2			5							1		1	1	2
164	2	1	1	2	2			5			2				1		1	1	5
165	2	1	1	2	2			1			2			1			1	1	3
107	1	1	1	2	1	1		1	5		2			1	1			1	
141	2	2	1	2	7	7 (weekly)		1	5		2			1		1		1	NA
142	2	1	1	2	14			1			2					2		NA	5

Site 8: 136 Charlestown Road, Charlestown

				Answer Key					
Q1 Q2 Q3	Q4	Q5		Q6	Q7		Q8	Q9	Q10
			1 = Car (driver)	1 = Yes	1 = Car (driver)			1 = 0 - 5 minutes	1 = 0 - 5 minutes
		_	2 = Car (Passenger)	2 = No (if no, go to Question 8)	2 = Car (Passe	nger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
			3 = Cycle		3 = Cycle			3 = 11 - 15 minutes	3 = 11 - 15 minutes
			4 = Motorcycle		4 = Motorcycle			4 = 16 - 30 minutes	4 = 16 - 30 minutes
			5 = Train		5 = Train			5 = More than 30 minutes	5 = More than 30 minutes
			6 = Bus		6 = Bus				
			7 = Walk		7 = Walk				
			9 = Other (specify)		9 = Other (spec	ify)			

Serial Number	Q1 - How many people are currently living in your	Q2 - How many cars do these residents have parked either on- site or nearby on-	Q3 - How many on-site parking spaces does your unit have	Q4 - How many bedroom are in your unit?	Q5 - Please indica	ate the total number	of trips made by al	l residents of you	unit, and the primar	y modes of travel:	Q6 - Did you have visitors to your unit today?	Q7 - Pleas		w visitors trav	elled to your ur an one)	nit (indicate	to o				any mode m well as visito	ors)	between public transport and your unit today, what was the duration of the	Q10 - If you walked directly between your unit and your final destination (e.g. work, school, uni, etc) today, what was the
	unit?	street?	allocated?			Number of trips		F	rimary modes of trav	/el		Nui	mber	V	isitor travel mo	ode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm	After 7pm	walk?	duration of the walk?
61	3	3	1	2	6	2	2	1	2	7	1	2		1			1	2		3	1	1		1
120	2	2	1	2				1	4	7	2												5	5
97	1	1	2	3	2			1	2	7		3		1	2	7		1	1	1	1		2	
116	3	1	1	2	1	1	1	1	6	7	2						2		1	1			3,4	
186	3	1	2	2	1	1		1	7		1			7					11	1				2
185	1	1	1	2				1	7		2										1		2	1
184	2	1	1	2				1			2							1			1			2
191	2	1	2	2				1			2			1										1
192	1	1	2	2				1			1			7									2	2
181	2	2	2	2				1	7		2												1	2
193	1	1	1	2	1			7			2								11					2
183	2	2	2	2	1			1	7		2							1		1				2
182	3	2	2	2				1	_		2							1		1			1	2
67	2	1	2	3	2	2		1	7		2										1			
187	3	1	1	2	2			1			2						1				1		1	_
189 188	3	2	1	·				1			2			1			1	1			1	1	1	5 5
24	1	1	1	2	14			1			2			1			1	1			1	1	1	5
30	2	2	1	2	4	20		1	7		2	2	2	1	2		1	2			2	1	1	1-2
242	2	1	2	2	4	20		1	7		2		2	'	2		'		1		1	- 1	1	1-2
245	2	2	2	2	1			1	- '		2							1			' '		2	2
246	2	2	2	2	1	1		1	7		2							-	1	1 (walk)			1	1
243	2	1	2	3	1	'		1	,		1	2	4	1	2			1	6	i (waik)			1	2
247	1	0	1	1	0			6			2	-	-	<u> </u>	-			1			1		1	5
200	2	2	2	2	2			1			2								1				·	2
199	2	1	2	2	1	1		1	7		2							1	•	1			1	1
198	3	2	2	2	2	1		1	7		1	1		1					2	2			1	2
197	2	1	2	2	2	3		1	7		2								2	3			2	2
196	2	2	2	2	1	2		1	7		2								1	2			1	1
195	2	1	2	2	1	2		1	7		2								1	1			1	2
194	4	1	2	3				1	7		1			1					1	1			1	1
190	3	1	1	2	1			1			1			5				2					1	
244	4	2	2	2	2			1			2						1							
249	3	1	1	2	1			1			2							1					1	1
241	3	3	2	3	3			1			2								1	2			1	1
250	2	1	2	3	1	1		1	7		1	1		1				1	1	1			1	1
201	1	1	1	2	1			1			1			1									1	2
240	3	1	1	2	1			5			2							1					4	
248	2	2	1	2	1	1		1	7		1			6					1	1			1	1

Site 9: 3-5 Corrimal Street, Wollongong

						An	swer Key			
Q1	Q2	Q3	Q4	Q5	Q6		Q7	Q8	Q9	Q10
				1 = Car (driver)	1 = Yes		1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
				2 = Car (Passenger)	2 = No (if no, go to Question 8)		2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
				3 = Cycle			3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
				4 = Motorcycle			4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
				5 = Train			5 = Train		5 = More than 30 minutes	5 = More than 30 minutes
				6 = Bus			6 = Bus			_
				7 = Walk			7 = Walk			
				9 = Other (specify)			9 = Other (specify)			

Serial Number	many people	narked either on-	on-site parking	Q4 - How many	trips made by all the primar	cate the total number of esidents of your unit, and y modes of travel:	Q6 - Did you have visitors to your unit today?	travelled to yo	e indicate how visitors our unit (indicate number if nore than one)		ease indicat o or from y					Q9 - If you walked between public transport and your unit today, what was the duration of the	school, uni, etc) today, what was the duration
	unit?	site or nearby on- street?	allocated?	your unit:	Number of trips	Primary modes of travel		Number	Visitor travel mode	Before 7am	7am-9am	9am- 12noon	12noon- 5pm	5pm-7pm	After 7pm	walk?	of the walk?
109	3	2	2	3		1	2									1	2
107	3	2	2	3		1	2		1,7		1		1			1	
108	2	2	2	3		1,7	1		1,7							1	2
52	2	2	2	3	1	1	2			0	0	0	1	0	0		
101	2	2	2	4	2,1,4	1,2,7	2			1	1	1	1	1	1	1	4
57	4	3	2	4	3,1	1,6	2			1	2	3	3	2	1		
54	2	2	2	4	6,2,6	1,2,7	2	1	1	2	2		1	1			

						Answer Key			
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
				1 = Car (driver)	1 = Yes	1 = Car (driver)		1 = 0 - 5 minutes	1 = 0 - 5 minutes
				2 = Car (Passenger)	2 = No (if no, go to Q	Question 8) 2 = Car (Passenger)		2 = 6 - 10 minutes	2 = 6 - 10 minutes
				3 = Cycle		3 = Cycle		3 = 11 - 15 minutes	3 = 11 - 15 minutes
				4 = Motorcycle		4 = Motorcycle		4 = 16 - 30 minutes	4 = 16 - 30 minutes
				5 = Train		5 = Train		5 = More than 30 min	5 = More than 30 minu
				6 = Bus		6 = Bus		·	
				7 = Walk		7 = Walk			
				9 = Other (specify) _		9 = Other (specify)	· 		

	Q1 - How many	Q2 - How many cars	O3 - How many on-	Q4 - How many	OF - Places indicate	the total number of	Q6 - Did you have	O7 - Places in	dicate how visitors	O0 - Bloom in dia	ato the number of to	ne hy any mada mada	today to or from	ur unit /by rooidente	a ac well ac violtage	Q9 - If you walked	Q10 - If you walked
Serial Number		do these residents		•		Primary modes of	visitors to your unit		dicate now visitors			ps by any mode made	today to or from you	ur unit (by residents		between public	directly between
Jeriai Nullibei		have parked either			Number of trips	travel	today?	Number	Visitor travel mode	Before 7am	7am-9am	9am-12noon	12noon-5pm	5pm-7pm	After 7pm	transport and your	
156	4	1	1	2	1,3	5,7	2				1		1	1		3	5
155	2	1	1	2	2,1	5,7	2					1	4			3	2
153	2	0	0	1	1	1	1	1	1			1	1			4	3
152	1	1	1	1	1	1	2							1		1	3
151	2	0	1	1	1,2	1,7	1	1	1							4	3
150	4	1	1	2	1,3	5,7	2					4	1			5	5
149	3	0	1	2	2	6	2						1			1	4
148	3	0	1	2	6	6	2						3			1	5
147	2	1	1	1	2,2	1,7	2						1	1		1,3	5
146	4	0	1	2	1,1	2,7	2				1		1			1	5
145	2	0	1	1	1,2	6,7	2						2			5	5
144	6	2	2	3	2	2	2						1			3	4
143	4	0	0	2	1,4	3,5,7	1		3,5,7		1	4				4	2
142	2	0	11	1	1	7	2					6				1	3
141	2	0	0	2	2,1	3,7	2				2		1			1	3
139	2	1	1	2	2,2	1,7	2					1	2				3
138	1	0	1	1	5	7	2					2	3	1		1	3
137	2	1	1	2	1,1	1,3	2					2			_	1	
136	1	0	1	1		1,2,3,5,6,7	2			2			4	2	2	2	1
135	2	0	1	1	21551		2		,				1		1	NA .	1
134	4	1	1	2	2,1,5,5,4	1,2,5,6,7	1	1	1				2			1	3
133	4 2	0	1	3	1,1,1,1	3,5,6,7	1		3,5,6,7		1	1	2	1	1	1,4	4
175		0	1	1	15,4,10	5,6,7	1		5			2				2	
174	5	1	1	1	2,2,8,4,18	1,2,5,6,7	2		-			•				1	2
173	2 4	1		·	2,2,2,2,8	1,2,5,6,7 1,2,5,6,7	1		5			1				3	3
172 171	3	1	1	2	2,2,2,1,4 2,2,10,5,10	1,2,5,6,7	2					· ·				1	
170	2	1	1	2	2,2,10,5,10	1,2,5,6,7	2 2				1	1				1	4
169	2	1	1	1	2,1,2,15	1,2,5,7	2				3					NA	1
168	4	0	1	2	1	5.7	2				2					3	
167	3	1	1	2	3,1,12,4,8	1,2,5,6,7	2					1				1	
166	1	1	1	1	2,10,4,8	1,5,6,7	1		9-Taxi/Cab			2				'	3
165	2	1	1	1	5,4	1.7	2		3 Taxii Gab			1				1	
164	2	1	1	2	4,2,10,5,15+	1,2,5,6,7	2					3				1	3
163	1	1	1	1	5,3,10	1,5,7	1		5			2				3	
162	2	1	1	1	4.3.5.5.8	1,2,5,6,7	2					2				1	
132	1	1	1	1	1,10,4	1,5,7	1	1	7			4	1			1	1
25	2	1	1	1	(per week), 2(per day	1,7	2						1	1		1	5
81	1	0	1	1	1,3	6,7	2					1	1	1		1	3
90	2	1	1	1	1,2	1,7	2			1	1				2		3,4
104	2	1	1	2	1,2,1,4	1,2,6,7	2	1	1		1	2	4	2	1	2	4
163	2	1	1	1	2,1	1,7	2				1	1	2			1,3	3
162	2	1	0	2	2,1,4	1,6,7	1		1			1	4			1	3
161	2	1	1	1	per week), 1, 2(per we	1,6,7	2					1	1	1		1	5
160	2	1	1	2	1,1,2	1,2,7	2				1	2	4	1		3	4
159	2	1	1	1	1,1,1	1,5,7	2				2	1	4			3	3
158	3	0	1	2	1,3	6,7	2				1	2	2	1		3	4
157	1	0	1	1	1	7	2									3	
-																	

Appendix B – NZ TDB Site Survey Sheets

Survey for (name	of client/counci	l):	High Den	sity Residen	tial Trip (Genera	tion Surveys		Offi	ce Ref	Only
Survey Period				Thursday			8-Mar-12				
Date & Time	N/A	E		ata Collection Several Days)		١	N/A		N/A		
A.		Activity Nar	me				13 Herbert Stre	et, St Leonard	ls		
		Land Use Desc	ription				High Density Resid	lential Develop	ment		
		Territorial Local A	Authority				Willoughby	City Council			
		Street Address &	Suburb				13 Herbert Stre	et, St Leonard	ls		
	S	urvey Site Genera	al Location		Rural		Suburb	Inner	СВІ) []
АТА		Highest Classific			Major Arterial Traffic A		Minor Arterial	Collector SH/TLA/Othe	Loc	al [
SITE DATA	Dadastii	A -4: :4	L	7		—		Rd (State)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	·	7
SIT		an Activity	Nil _	<u> </u>	Low		Moderate	High	VH		
		ort Opportunities	Nil L		Low	Ш	Moderate	High	VH	ign _	
		ccupied Site Area Gross Floor Area)				Jil Jil			
		Employee						\''' Jil			
	Other	r Size (please spe		and							
		eg seats, rooms,	•				80 t	units			
В.	Park	king Spaces Provi	ded On-Si	te			97 sr	paces			
.		ng Spaces Availat						/a			
4=	Staff P	Parking Spaces Pi	rovided On	-Site			n/a			Not	Relevant
PARKING	Staff Parl	king Spaces On-S	Street and	Off-site			n/a				Surveyed stimated
ď		Peak Parking D	emand		0600 - 06	615 hrs	60 sp	aces			
	Peak	Parking Demand	During Su	rvey			0.75 spa	ces /unit			
C.				ГІМЕ	0745	hro	0845 hrs				
C.	Ä	AM Peak		IN	0743		0045 1115				
	Œ TUE	(veh/hr)		OUT	1		13 (in + out)				
7	SURVEYED /DEPARTURE -LOW			ГІМЕ	1615		1715 hrs				
NOIT	SURVE /DEP/ FLOW	PM Peak		IN	4						
ER A	TE ((veh/hr)		OUT	3		7 (in + out)				
TRIP GENERAT	SITE SU ARRIVAL/I FL		7	ГІМЕ	0600		1900 hrs				
<u>₽</u>	4	Daily (veh/hr)	TOTA	L IN+OUT	54 v						
Η			А	M Hr	0.16	•	/unit				
		Trip Rate other unit (state)	Р	PM Hr	0.09		/unit				
	per room or c	otrici driit (state)	С	PAILY	0.68	vpd	/unit				
	GENERAL CO	MMENTS AND N	IOTES				Model Split	Number		%	
e.g. Site location char							Modal Split Car Drivers			22%	
special aspects (scho	ol holidays, public h	nolidays)					Car Passengers	J-T		5%	
							Goods Drivers			0%	
							Goods Passengers			0%	
							Pedestrians			73%	
							Cyclists			-	-
							Bus Passengers				
							Total			100%	6
Survey undertake	en by (organisati	ons):	Austraffic		Surveyor	Contac	ts:	Kevin John			
Survey undertake					, -			kevin.john@a	ustraffic	.com.a	u

Survey for (name	of client/counci	l):	High De	ensity Residen	tial Trip	Gener	ation Surve	ys			Office	Ref (Only
Survey Period				Saturday		10-	Mar-12						
Date & Time	N∕A	E	xtended	Data Collection (Several Days)			N/A			١	N/A		
A.		Activity Nar	ne				13 Herb	ert Str	eet, St Leo	nards			
		Land Use Desc	ription				High Densit	y Resi	dential Dev	elopm	ent		
		Territorial Local A	Authority				Wille	oughby	City Coun	cil			
		Street Address &	Suburb				13 Herb	ert Str	eet, St Leo	nards			
	S	urvey Site Genera	al Locatio	n	Rural		Suburb		Inner		CBD]
ΙΤΑ		Highest Classific			Major Arterial		Minor Arterial		Collector SH/TLA/C	Other	Local]
SITE DATA					Traffic A	DI =	14,548		Rd (State)				
SITE	Pedestri	an Activity	Nil		Low		Moderate		High		V High	=	
		ort Opportunities	Nil		Low	Ш	Moderate		High		V High	<u> </u>]
		ccupied Site Area	· .						Vil				
	(Gross Floor Area		·)					Nil 				
	Other	Employee							Vil				
		Size (please spe eg seats, rooms,	•					80	units				
В.		ting Spaces Provi						97 s	paces				
Б.		g Spaces Availab							n/a				
_		arking Spaces Pr					n/a					Not R	Relevant
PARKING		king Spaces On-S					n/a						urveyed
Α΄		Peak Parking D	emand		0800 - 0	815 hr	\$	54 sp	aces				
	Peak	Parking Demand		Survey			0.0		ces /unit				
_				TIME									=
C.	Щ	AM Peak		TIME	0800		0900 h	rs					
	ED TUR	(veh/hr)		OUT	3		12 vph (in	+out)					
-	SITE SURVEYED ARRIVAL/DEPARTURE FLOW			TIME	9	1	4000 1						
NOIL	SUR /DEI /LO	PM Peak		IN	1700	nrs	1800 h	rs					
RA.	TE 9 VAL	(veh/hr)		OUT	5 9		14 vph (in	+out)					
TRIP GENERAT	SI. RRI			TIME	0800	hre	1800 h	re					
P G	∢	Daily (veh/hr)	TOT	ΓAL IN+OUT	132 \		10001	13					
TR				AM Hr	0.15		/unit						
		rip Rate other unit (state)		PM Hr	0.18	•	/unit						
	per room or o	orner unit (state)		DAILY	1.65		/unit						
	GENERAL CO	MMENTS AND N	IOTES										一
e.g. Site location ch		_						I Split Drivers	Numb		_	% 40%	
special aspects (sch	nool holidays, publi	c holidays)					Car Passe		130)		18%	
							Goods [Ū	88			12%	
						(Goods Passe		0			0%	
						·		strians	494			69%	
								yclists	494	•		J3 70 -	
							Bus Passe	•					
								Total	714		<u> </u>	100%	
Survey undertake	en hv (organisati	ons).	Austraff	iic	Surveyor	. Conta	acts:		Kevin Joh		1		
Survey undertake		,	, worrain	.~	Jai voyoi	COINC			kevin.john		traffic c	Om a	
our voy undertake	on by (surveyor).								KOVIII.JUIIII	ح au3ا	.am.	JIII.a	

Survey for (name	of client/counci	l):	High Density Residen	tial Trip Ge	eneratio	on Surveys		Office Ref Only
Survey Period			Tuesday		6-De	ec-11		
Date & Time	N/A	E	extended Data Collection (Several Days)		N	/A	ı	N/A
A.		Activity Nar	me			1 Cambridge La	ne, Chatswood	
		Land Use Desc	cription		F	High Density Reside	ential Developme	nt
		Territorial Local	Authority			Willoughby (City Council	
		Street Address 8	Suburb			1 Cambridge La	ne, Chatswood	
	S	urvey Site Genera	al Location	Rural		Suburb	Inner	CBD
ντΑ		Highest Classific		Major Arterial Traffic AD] T_	Minor Arterial	Collector SH/TLA/Other	Local
SITE DATA			[Rd (State)	
SIT		an Activity	Nil L	Low	_	Moderate	High	V High
	<u>.</u>	ort Opportunities	Nil	Low L		Moderate	High	V High L
		ccupied Site Area	* * * * * * * * * * * * * * * * * * * *			Ni		
	(Gross Floor Area				Ni		
	Other	Employee Size (please spe				Ni		
		eg seats, rooms,				132 ເ	ınits	
В.	Parking S	paces Provided (On-Site (Inc. Staff)			206 sp	paces	
Б.			ole On-Street Off-site			n/:		
.=	Staff P	arking Spaces P	rovided On-Site			n/a		Not Relevant
PARKING	Staff Pari	king Spaces On-S	Street and Off-site			n/a		Not Surveyed Estimated
<u>a</u>		Peak Parking D	emand	1830 - 184	5 hrs	12	27	
	Peak	Parking Demand	During Survey			0.96 spa	ces /unit	
C.			TIME	0730	hre	0830 hrs		
o .	Ж Ш	AM Peak	IN	5	1110			
	YED	(veh/hr)	OUT	14		19 vph (in+out)		
NO	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		TIME	1630		1730 hrs		
	SUF L/DE FLC	PM Peak (veh/hr)	IN	12				
ER/	E A	(VCIVIII)	OUT	5		17 vph (in+out)		
TRIP GENERATI	AR A	Daily (veh/hr)	TIME	0600 1	hrs	1900 hrs		
SIP O		Daily (veri/iii)	TOTAL IN+OUT	159 v	pd			
Ĕ	Pook T	rip Rate	AM Hr	0.14 v	/ph	/unit		
		other unit (state)	PM Hr	0.13 v	/ph	/unit		
	•	. ,	DAILY	1.2 v	pd	/unit		
	GENERAL CO	MMENTS AND N	IOTES			Modal Split	Number	%
e.g. Site location char						Car Drivers		23%
special aspects (school	ioi noildays, public r	iolidays)				Car Passengers		12%
						Goods Drivers	0	0%
					(Goods Passengers	0	0%
						Pedestrians	445	64%
						Cyclists	-	-
						Bus Passengers	-	-
						Total	690	100%
Survey undertake	en by (organisati	ons):	Austraffic	Surveyor C	ontacts	:	Kevin John	
Survey undertake	en by (surveyor):						kevin.john@aus	traffic.com.au

Survey for (name	of client/counci	l):	High Density Residen	tial Trip Gener	ation Surveys		Office Ref Only
Survey Period			Saturday	3	-Dec-11		
Date & Time	N/A	E	extended Data Collection (Several Days)		N/A	١	N/A
A.		Activity Nar	me		1 Cambridge La	ne, Chatswood	
		Land Use Desc	cription		High Density Reside	ential Developmer	nt
		Territorial Local	Authority		Willoughby C	City Council	
		Street Address 8	Suburb		1 Cambridge La	ne, Chatswood	
	S	urvey Site Genera	al Location	Rural	Suburb	Inner	CBD
SITE DATA		Highest Classific Frontage Ro		Major Arterial Traffic ADT =	Minor Arterial	Collector SH/TLA/Other	Local
Ē D	Dodootri	an Activity	NEI 🗆			Rd (State)	VIII oh
S		ort Opportunities	Nil	Low	Moderate	High	V High
	<u>.</u>	ccupied Site Area	<u> </u>	Low	Moderate Ni	High	V High L
		Gross Floor Area	· · · · · · · · · · · · · · · · · · ·		Ni		
		Employee			Ni		
		Size (please speeg seats, rooms,	ecify value and		132 u		
B.	Parking S	paces Provided (On-Site (Inc. Staff)		206 sp	aces	
	Other Parkin	ng Spaces Availat	ole On-Street Off-site		n/a	 a	
(D	Staff P	arking Spaces P	rovided On-Site		n/a		Not Relevant
PARKING	Staff Par	king Spaces On-S	Street and Off-site		n/a		Not Surveyed Estimated
Ğ		Peak Parking D	emand	0600 - 0615 hrs	s 11	9	
	Peak	Parking Demand	During Survey		0.9 spac	es /unit	
C.			TIME	0800 hrs	0900 hrs		
	ᄶ	AM Peak (veh/hr)	IN	0			
	YED	(ver//ii)	OUT	14	14 vph (in+out)		
N O	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		TIME	1600 hrs	1700 hrs		
	SUI L/DI	PM Peak (veh/hr)	IN	9	19 vph (in+out)		
ER,	SITE	(**************************************	OUT	10	19 vpi1 (iii+out)		
TRIP GENERATI	ARF	Daily (veh/hr)	TIME	0600 hrs	1800 hrs		
SIP.		Bany (veriin)	TOTAL IN+OUT	182			
F	Peak T	rip Rate	AM Hr	0.11 vph	/unit		
		other unit (state)	PM Hr	0.14 vph	/unit		
			DAILY	1.38 vpd	/unit		
	GENERAL CO	MMENTS AND N	IOTES		Modal Split	Number	%
e.g. Site location char special aspects (scho					Car Drivers	173	22%
		, 0,			Car Passengers	103	13%
					Goods Drivers	9	1%
					Goods Passengers	3	0%
					Pedestrians	501	63%
					Cyclists	-	-
					Bus Passengers	-	-
					Total	789	100%
Survey undertake	en by (organisati	ons):	Austraffic	Surveyor Conta	acts:	Kevin John	
Survey undertake	en by (surveyor):					kevin.john@aust	raffic.com.au

Survey for (name	of client/counci	l):	High Den	sity Residen	tial Trip	Generat	ion Surveys				Office	Ref On	nly		
Survey Period				Tuesday		15-N	May-12								
Date & Time	N/A	E		ata Collection Several Days)			N/A			I	N/A				
A.		Activity Nar	me				8-12 Warat	tah St	SH/TLA/Other Rd (State) High						
		Land Use Desc	ription			l	High Density R	eside	ntial Develo	pme	nt				
		Territorial Local A	Authority				Sutherla	nd Sh	ire Council						
		Street Address &	Suburb				8-12 Warat	tah St	reet, Cronu	ılla					
	S	urvey Site Genera	al Location		Rural		Suburb		Inner		CBD				
₹.		Highest Classific			Major Arterial		Minor Arterial		Collector		Local				
DAT		Frontage Ro	ads		Traffic A	NDT =	5,941			ther					
SITE DATA	Pedestri	an Activity	Nil]	Low		Moderate		High		V High	, <u> </u>			
Public Transport Opportunities Nil										V High					
Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) 8 spaces															
Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site Na															
		Employee	S					Nil							
								28 un	iits						
B.	Parking S	paces Provided (On-Site (Inc	c. Staff)	8 spaces										
	Other Parkin	ng Spaces Availab	ole On-Stre	et Off-site	·										
C)	Staff P	arking Spaces P	rovided On-	-Site			n/a					Not Rele	evant		
PARKING	Staff Pari	Street and 0	Off-site			n/a									
9		Peak Parking D	emand		1000 - 1	015 hrs		5 spa	ces		_				
	Peak	Parking Demand	During Sur	vey			0.18	spac	es /unit						
				IME	070		20001								
C.	Щ	AM Peak		IN	073	30 hrs	0830 hr	S							
	E T	(veh/hr)		DUT		0	2 vph (in+c	out)							
7	SITE SURVEYED ARRIVAL/DEPARTURE FLOW			IME	170	2 00 hrs	1000 hm								
NOIL	SUR /DE	PM Peak		IN	170		1800 hrs	5							
TRIP GENERAT	TE 9 VAL	(veh/hr)		DUT		0	2 vph (in+c	out)							
R	N R			IME	060	0 00 hrs	1900 hrs								
P G	∢	Daily (veh/hr)		L IN+OUT		o ms vpd	1900 1113	<u> </u>							
IR				M Hr		7 vpa 7 vph	/unit								
		rip Rate		M Hr	ĺ	7 vpn 7 vph	/unit								
	per 100m ² or o	AILY		3 vph	/unit										
	GENERAL COL	MMENTS AND N	IOTES								_				
e.g. Site location char			IOTES				Modal	•		er					
special aspects (scho							Car Dı Car Passer								
							Goods Di	Ū							
							Goods Passer Pedest	-	0			0%			
									56			67%			
							Bus Passer	clists	-		-	-			
								Total			\vdash	-			
	. ,							ı ulal	83		<u>`</u>	100%			
Survey undertake		•	Austraffic		Surveyo	r Contact	S:		Kevin Johi						
Survey undertake	n by (surveyor):								kevin.john	@aus	straffic.	com.au			

Survey for (name	of client/counci	l):	High Density Residen	tial Trip G	eneration	on Surveys		Office Ref Only				
Survey Period			Saturday		12-M	ay-12						
Date & Time	N/A	E	extended Data Collection (Several Days)		N	//A	1	N/A				
A.		Activity Nar	me			8-12 Waratah S	treet, Cronulla					
		Land Use Desc	cription		ŀ	High Density Reside	ential Developmer	nt				
		Territorial Local	Authority			Sutherland Sl	hire Council					
		Street Address 8	Suburb			8-12 Waratah S	treet, Cronulla					
	S	urvey Site Genera	al Location	Rural [Suburb	Inner	CBD				
ΑΤΑ		Highest Classific		Major Arterial Traffic AD)T -	Minor Arterial 5,941	Collector SH/TLA/Other	Local				
SITE DATA			[· —	Rd (State)					
SIT		an Activity	Nil L	Low		High	V High					
	<u>.</u>	ort Opportunities	Nil	Low [V High L					
		ccupied Site Area	* * * * * * * * * * * * * * * * * * * *	Low								
	Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site n/a											
	Other					INI	<u> </u>					
						28 ui	nits					
В.	Parking S	paces Provided (On-Site (Inc. Staff)	8 spaces								
ь.				·								
_		<u> </u>				n/a		Not Relevant				
PARKING						n/a		Not Surveyed Estimated				
۵		Peak Parking D	emand	1230 - 124	45 hrs	6 spa	aces					
	Peak	Parking Demand	During Survey			0.21 space	<u> </u>					
C.			TIME	0800 hrs 0900 hrs								
C .	Ж	AM Peak	IN	2								
	Œ	(veh/hr)	OUT	1		3 vph (in+out)						
z	KVE W W		TIME	n/a		n/a						
NOIT	SUF 7DE FLO	PM Peak (veh/hr)	IN	0								
ERA	IZ A	(veri/rii)	OUT	0		0 vph (in+out)						
TRIP GENERATI	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	Daile (cale /b v)	TIME	0800	hrs	1800 hrs						
SIP C		Daily (veh/hr)	TOTAL IN+OUT	17	7							
Ĕ	Dook T	rip Rate	AM Hr	0.11	vph	/unit						
		other unit (state)	PM Hr	0 v	ph	/unit						
			DAILY	0.61	vpd	/unit						
	GENERAL CO	MMENTS AND N	IOTES			Modal Split	Number	%				
e.g. Site location char						Car Drivers	17	15%				
special aspects (school	ol holidays, public r	iolidays)				Car Passengers	9	8%				
						Goods Drivers	0	0%				
					(Goods Passengers	0	0%				
						Pedestrians	90	78%				
						Cyclists	-					
						Bus Passengers	-	-				
						Total	116	100%				
Survey undertake	en by (organisati	ons):	Austraffic	Surveyor (Contacts	:	Kevin John					
Survey undertake	en by (surveyor):						kevin.john@aus	traffic.com.au				

Survey for (name	of client/counci	l):	High De	ensity Residen	tial Trip	Gener	ation Surveys			Office	Ref Only			
Survey Period	& Time Extended Data Collection													
Date & Time	N/A	E		Data Collection (Several Days)			N/A			LI/Δ				
				(Several Days)			11/7		ntial Development y Council et, Rockdale nner					
A.		Activity Nar	me				2-8 Ashton	Street, Rockdale sidential Development e City Council Street, Rockdale Inner						
		Land Use Desc	ription				High Density Re	sidential Dev	elopn	nent				
		Territorial Local A	Authority				Rockdal	e City Counc	il					
		Street Address &	Suburb				2-8 Ashton	Street, Rock	dale					
	S	urvey Site Genera	al Location	n	Rural		Suburb	Inner		CBD				
ΑΤΑ		Highest Classific			Major Arterial Traffic A	ADT	Minor Arterial		Other	Local				
SITE DATA					=									
EIS		an Activity	Nil [<u> </u>	Low Moderate High Nil Nil Nil dd 234 Coff-site Noderate High Nil									
				Nil							<u> </u>			
Public Transport Opportunities Nil														
Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) 234 B. Parking Spaces Provided On-Site Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site														
	Other			and				NII						
								234						
B.	Park	ing Spaces Provi	ded On-S	Site										
	Other Parkin	ig Spaces Availab	ole On-St	reet Off-site				n/a						
C)	Staff P	arking Spaces P	rovided O	n-Site	n/a Not Relev						Not Releva			
ARKING	PAF			d Off-site			n/a				Not Survey			
<u>a</u> .		Peak Parking D	emand		0600 - 0615 hrs 195 spaces									
	Peak	Parking Demand	During S	urvey			0.8	3 spaces /dw	elling					
C.				TIME	0745 hrs 0945 hrs									
o .	A E	AM Peak		IN	0745 hrs									
	(ED	(veh/hr)		OUT	58		76 (in + out)							
NO	KVE W W			TIME	1645		1745 hrs							
	SUF L/DE FLO	PM Peak (veh/hr)		IN	31									
ERA	ITE	(ven/m)		OUT	18		49 (in + out)							
TRIP GENERATI	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	Doily (yoh/hr)		TIME	0600	hrs	1900 hrs							
SIP (•	Daily (veh/hr)	TOT	AL IN+OUT	527 v	/pd								
F	Pook T	rip Rate		AM Hr	0.32 vph	ı	/dwelling							
		other unit (state)	PM Hr	0.21 vph	l	/dwelling								
			DAILY	2.25 vpd		/dwelling								
	GENERAL CO	MMENTS AND N	IOTES				Modal Sp	lit Numb	er		%			
e.g. Site location char							Car Drive							
special aspects (school	ioi noildays, public n	iolidays)					Car Passenge							
							Goods Drive	ers 17			1%			
						(Goods Passenge	ers 2			0%			
							Pedestria	ns 535			43%			
							Cyclis	sts _			-			
							Bus Passenge	ers _			-			
							To	tal 1255	,		100%			
Survey undertake	en by (organisati	ons):	Austraffi	С	Surveyor	Conta	acts:	Kevin Joh	n					
Survey undertake	en by (surveyor):							kevin.john	@au	straffic.	com.au			

Survey for (name	of client/counci	I):	High De	ensity Residen	tial Trip	Gener	ation Surveys				Office	Ref O	nly
Survey Period				Saturday		25-	Feb-12						
Date & Time	N/A	E	xtenaea	Data Collection (Several Days)			N/A				NI/Δ		
				(Ocveral Days)			14/71		N/A N/A Set, Rockdale Intial Development / Council Set, Rockdale Inter				
A.		Activity Na	me				2-8 Ashton	Stree	t, Rockda	ale			
		Land Use Desc	cription				High Density Re	siden	tial Devel	opm	ent		
		Territorial Local	Authority				Rockda	le City	Council				
		Street Address 8	Suburb				2-8 Ashton	Stree	et, Rockda	ale			
	S	urvey Site Genera	al Locatio	n	Rural		Suburb	Inr	ner		CBD		
ΙΤΑ		Highest Classific			Major Arterial Traffic A	ADT	Minor Arterial			her	Local		
SITE DATA					=		858	Ro	d (State)				
SITE	Pedestri	an Activity	Nil		Low		Moderate	_			-		
		ort Opportunities	Nil		Low		Moderate	Hi	gh _	<u></u>	V High	<u> </u>	
		Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site aff Parking Spaces Provided On-Site aff Parking Spaces Provided On-Site n/a											
	Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site Other Parking Spaces Available On-Street Off-Site Staff Parking Spaces Provided On-Site Na												
	Othor							Nil					
								234					
B.													
<u>.</u>					n/a								
(D	Staff F	arking Spaces P	rovided C	n-Site			n/a					Not Re	elevant
ARKING	A			d Off-site			n/a						-
9		Peak Parking D	emand		0800 - 0	815 hrs	200	space	es				
	Peak Parking Demand During Survey						0.8	5 spa	ces /dwe	ling			
				TIME			2222						
C.	E .	AM Peak		IN	0800		0900 hrs						
	ED TUF	(veh/hr)		OUT	25		29 vph (in+ou	t)					
7	VEY PAR W			TIME	1700		1800 hrs						
NOIL	SUR /DE	PM Peak		IN	32								
:RA:	TE S VAL	(veh/hr)		OUT	22		54 vph (in+ou	t)					
TRIP GENERATI	SITE SURVEYED ARRIVAL/DEPARTURE FLOW			TIME	080		1800						
P G	٩	Daily (veh/hr)	ТОТ	AL IN+OUT	394 \		1000						
Ŧ				AM Hr	0.12 vph		/dwelling						
		rip Rate other unit (state)		PM Hr	0.23 vph		/dwelling						
	per room or c	DAILY	1.68 vpd		/dwelling								
	GENERAL CO	MMENTS AND N	IOTES				M - J-LO		Maraka			0/	
e.g. Site location char	racteristics, parking	durations, and other					Modal Sp Car Drive	_					
special aspects (scho	ool holidays, public h	olidays)					Car Passenge		192			15%	
							Goods Drive	_	192			1%	
						(Goods Passenge		3			0%	
							Pedestria	_	 683			54%	
							Cyclis		-			-	
							Bus Passenge						
							_	tal	1272			100%	
Survey undertake	en hy (organisati	ous).	Austraff	iic.	Surveyor	r Conta			evin John		1	70	
Survey undertake			, tastran	10	Jui voyoi	COINC			vin.john@) 21 IC	straffic :	COm a	
our voy undertakt	on by (aurveyor).							νG	vii i.joi ii i @	ะนนใ	,aanto.	ווויטכ.	u

Survey for (name	of client/counci	l):	High Der	nsity Residen	tial Trip	Generati	ion Surveys				Office I	Ref Only
Survey Period	Tuesday 3-Apr-12											
Date & Time	N/A	E								l	N/A	
A.		Activity Nar	me				26-30 Hass	sal Stre	eet, Parram	atta		
		Land Use Desc	ription			ŀ	High Density F	Reside	ntial Develo	pme	nt	
		Territorial Local	Authority				Parram	natta C	ity Council			
		Street Address &	Suburb				26-30 Hass	all Str	eet, Parram	atta		
	S	urvey Site Genera	al Location		Rural		Suburb		Inner		CBD	
ντΑ					Major Arterial		Minor Arterial		Collector SH/TLA/O	ther	Local	
SITE DATA						————			Rd (State)			
SIT				<u> </u>				<u> </u>	V High	=		
				<u>, </u>	Low		Moderate	Ш			V High	
		<u> </u>	·)								
	(
	Other Parking Spaces Available On-Street Off-site n/a Staff Parking Spaces Provided On-Site n/a											
							83 ur	nits				
В.	Parking S	Spaces Provided (c. Staff)			1	08 sp	aces				
ь.		•										
		<u> </u>					n/a					Not Relevant
PARKING		Extended Data Collection (Several Days) Activity Name 26-30 Hassal Street, Parramatta Land Use Description Fortionial Local Authority Parramatta City Council 26-30 Hassal Street, Parramatta Parramatta Parramatta City Council 26-30 Hassal Street, Parramatta Parramatta City Council 26-30 Hassal Street, Parramatta Parramatta City Council Afterial Devoloped Minor Afterial Marterial Marterial Marterial Marterial Marterial Advantage Radical Radical Authority Nil Low Moderate High Inner Moderate High Inner Piliph Inner Nil Nil Parramatta City Council Major Moderate Moderate High Density Cellstan Nil Nil Parramatta Moderate High Density Cellstan Nil Nil Nil Nil Parramatta Nil Moderate High Density Cellstan Nil Nil Nil Nil Nil Nil Nil Ni		Not Surveyed Estimated								
7		Peak Parking D	emand		0600 - 0	615 hrs		83 spa	aces			
	Peak	Parking Demand	During Su	rvey			1	space	e /unit			
•				TIME	000	201	20001					
C.	Щ	AM Peak			080		0900 nrs					
	E TUE	(veh/hr)					22 vph (in-	+out)				
7	SITE SURVEYED ARRIVAL/DEPARTURE FLOW						161F h					
NOIL	SUR /DE ⁻ LO				131		161311	15				
TRIP GENERAT	TE S VAL	(veh/hr)					11 vph (in	+out)				
ENE	N N				060		1900 h	re				
P G	∢	Daily (veh/hr)	TOTA	L IN+OUT	ĺ		130011	13				
TR			ļ ,	AM Hr			/unit					
		rip Rate	F	PM Hr								
	per 100m or 0	otner unit (state)	Г	DAILY								
	GENERAL CO	MMENTS AND N	IOTES		ı							
e.g. Site location char		_	.0120					-		er		%
special aspects (scho									101			31%
Mode split is derive	ed from interview	survev and hence	it will not re	epresent the				•				9%
•		e shopping centre.										2%
								_				0%
									239		;	57%
								•	-			-
								·			4	00%
Cumaria	un hu /	ana).	A., - ***		C	. Coming		Day			1	UU /0
Survey undertake	, , ,	,	Austrattic	•	ourvey0	i Contact	5.					
Survey undertake	en by (surveyor):								kevin.john	@aus	straffic.c	om.au

Survey for (name	of client/counci	l):	High Den	sity Residen	tial Trip	Genera	tion Survey	s			Office	Ref Only
Survey Period				Saturday		31-N	Mar-12					
Date & Time	N/A	Е		ata Collection Several Days)		١	N/A			N	N/A	
A.		Activity Nar	me				26-30 Has	sal Sti	reet, Parram	natta		
		Land Use Desc	cription			ŀ	High Density	Resid	ential Devel	opme	ent	
		Territorial Local				Parrar	natta (City Council				
		Street Address 8	Suburb				26-30 Has	sall St	reet, Parran	natta		
	S	urvey Site Genera	al Location		Rural		Suburb		Inner [CBD	
SITE DATA		Highest Classific Frontage Ro			Major Arterial Traffic A	ADT =	Minor Arterial				Local	
ĒΡ	Dodootri	on Antivity	INII -	1					-		\	<u> </u>
SI		an Activity	Nil L	<u>]</u>								
					LOW	v nigi	(1)					
		•	· · · · · ·		Rd (State) Rd (State) V High V High V High V High V High Nil Nil Nil Nil Sa units							
		Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) arking Spaces Provided On-Site (Inc. Staff) Tarking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site n/a Indicate the Area (Ha or m²) Nil 83 units 108 spaces n/a										
		· Size (please spe	cify value a									
B.	Parking S	Spaces Provided (c. Staff)				108 sp	paces				
		-			n/a							
40	Staff P	arking Spaces P	rovided On	-Site			n/a					Not Relevant
PARKING	Staff Parl	king Spaces On-S	Street and	Off-site			n/a					Not Surveyed Estimated
₫.		Peak Parking D	emand		0800 - 0	815 hrs		73 spa	Street, Parramatta sidential Developm a City Council Street, Parramatta Inner		-	
	Peak											
C.			7	ГІМЕ	080	∩ hrs	0900 h	rs				
o .	Ж Ш	AM Peak		IN		2						
	YED	(veh/hr)		DUT		2	14 vph (in-	+out)				
NO	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		1	TIME		 5 hrs	1715 h	rs				
	SUF L/DE FLC	PM Peak (veh/hr)		IN		7						
ER /	E S	(veriiri)	(OUT		4	11 vph (in-	+out)				
TRIP GENERATI	AR S	Daily (veh/hr)	1	TIME	80	800	1800					
SIP (·	Daily (veri/iii)	TOTA	L IN+OUT	115	vpd						
Ė	Pook T	rip Rate	А	M Hr	0.17 veł	nicles	/unit					
		other unit (state)	Р	M Hr	0.13 veh	nicles	/unit					
	•	, ,	D	AILY	1.39 veh	nicles	/unit					
	GENERAL CO	MMENTS AND N	IOTES				Moda	I Split	Numbe	er		%
e.g. Site location cha			ner					rivers				23%
special aspects (sch	ooi noildays, publi	c nolidays)					Car Passe	engers	64			13%
							Goods D	rivers	2			0%
						(Goods Passe	engers				0%
							Pedes	strians	306			63%
							C	yclists	-			-
							Bus Passe	engers				-
								Total	487			100%
Survey undertake	n by (organisati	ons):	Austraffic		Surveyo	r Contac	ets:		Kevin John	1		
Survey undertake	n by (surveyor):								kevin.john@	@aus	traffic	.com.au

Survey for (name	of client/counci	l):	High Densi	ity Residen	tial Trip	Generat	tion Surveys				Office	Ref O	nly		
Survey Period			May-12												
Date & Time	N/A	E	xtended Dat	Thursdsay a Collection everal Days)			N/A			I	N/A				
A.		Activity Nar	me				10 Wentwor	th Driv	e, Liberty Grove Inner						
		Land Use Desc	ription				High Density F	Reside	ntial Develo	opmei	nt				
		Territorial Local A	Authority				City	of Can	ada Bay						
		Street Address &	Suburb				10 Wentwor	th Driv	e, Liberty C	Grove					
	S	urvey Site Genera	al Location		Rural		Suburb		Inner		CBD				
					Major	П	Minor		Collector		Local	\Box			
₹		Highest Classific Frontage Ro			Arterial		Arterial		SH/TLA/C	ther					
DA		o.mago o			Traffic A	NDT =	2,265								
SITE DATA	Pedestri	an Activity	Nil 🗌		Low		Moderate		High		V High	1 🔲			
	Public Transport Opportunities Nil									V High	ı 🔲				
Public Transport Opportunities Nil Low Moderate High V Occupied Site Area (Ha or m²) Nil Gross Floor Area (GFA m²) Nil Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) B. Parking Spaces Provided On-Site (Inc. Staff) 93 spaces Other Parking Spaces Available On-Street Off-site n/a															
Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) B. Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site Nil 64 units															
		' '						Nil							
								64 un	its						
B.	Parking S	paces Provided (On-Site (Inc.	Staff)			!	93 spa	ices						
	Other Parkin	ig Spaces Availab	ole On-Street	t Off-site				n/a	ı						
	Staff P	arking Spaces P	rovided On-S	Site			n/a					Not Re	elevant		
ARKIN	Staff Parking Spaces On-Street and O Peak Parking Demand						n/a								
۵		Peak Parking D	emand		0600 - 0	615 hrs		68 spa	aces						
	Peak	Parking Demand	During Surve	ey			1.0	6 spac	es /unit						
C.			TIN	ИE	070	00 hrs	0800 h	rs							
o.	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	AM Peak	II.		070	1									
	YED	(veh/hr)	Ol	JT		37	38 vph (in-	+out)							
NO	KVE,		TIN	ИΕ		30 hrs	1730 h	rs							
	SUF L/DE FLC	PM Peak (veh/hr)	11	N		11									
ERA	ITE	(ven/m)	Ol	JT		8	19 vph (in-	+out)							
TRIP GENERAT	S ARR	Doily (yoh/hr)	TIN	ИΕ	060	00 hrs	1900 h	rs							
SP C	·	Daily (veh/hr)	TOTAL	IN+OUT	2	201									
Ĕ	Dook T	rip Rate	AM	Hr	0.5	9 vph	/unit								
		other unit (state)	PM	Hr	0.3	3 vph	/unit								
	<u>'</u>	, ,	DA	ILY	3.1	4 vpd	/unit								
	GENERAL CO	MMENTS AND N	IOTES				Moda	Split	Numbe	er		%			
e.g. Site location char								rivers		-					
special aspects (school	ioi noildays, public n	iolidays)					Car Passe	engers							
							Goods D	rivers	8			2%			
							Goods Passe	engers							
							Pedes	strians	247			58%			
							С	yclists	-			_			
							Bus Passe	ngers	-			_			
								Total	424			100%			
Survey undertake	en by (organisati	ons):	Austraffic		Surveyo	r Contac	ts:		Kevin Joh	n					
Survey undertake		•			•				kevin.john	@aus	straffic.	com.aı	J		

Survey for (name	of client/counci	l):	High Densit	y Residen	tial Trip	Genera	ation Surveys		Office	Ref Only		
Survey Period				Saturday		19-	May-12					
Date & Time	N/A	E		Collection					N/A			
A.		Activity Nar	me				10 Wentworth Dr	ive, Liberty Grov	/e			
	Period Time Extended Data Collection (Several Days) N/A N/A								ent			
		Territorial Local A	Authority				City of Ca	ınada Bay				
		Street Address &	Suburb				10 Wentworth Dr	ive, Liberty Grov	⁄e			
	S	urvey Site Genera	al Location		Rural		Suburb	Inner	CBD			
SITE DATA					Arterial	DT =	Arterial	SH/TLA/Other	Local			
12	Pedestri	an Activity	Nil 🗆		Low		Moderate		V Hig	ь П		
<u>.</u> is			-			-						
					LOW	v riig	'' 🗀					
		.	, ,	Low								
	Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site Nil 64 units											
				İ								
B.	Parking S	paces Provided (On-Site (Inc. S	Staff)			93 sp	aces				
	Other Parkir	ng Spaces Availab	ole On-Street	Off-site	n/a							
(D	Staff F	arking Spaces P	rovided On-Si	te			n/a			Not Relevant		
PARKING	Staff Par	king Spaces On-S	Street and Off	-site			n/a			Not Surveyed Estimated		
<u> </u>		Peak Parking D	emand		0800 - 0	815 hrs	64 sp	aces				
	Peak	Parking Demand	During Surve	у			1 space	e /unit				
C.			TIM	E	0800) hrs	0900 hrs			1		
	П	AM Peak	IN			1						
	YED	(veh/hr)	OU	Т		· 7	8 vph (in+out)					
NO	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		TIM	E) hrs	1700 hrs					
	SUR L/DR	PM Peak (veh/hr)	IN		3		54					
ER/	E A	(VCIVIII)	OU	Т	2	3	54 vph (in+out)					
TRIP GENERATI	AR A	Daily (veh/hr)	TIM	E	080) hrs	1800 hrs					
SIP 0		Daily (veri/ili)	TOTAL IN	N+OUT	129	vpd						
Ė	Dook T	rip Rate	AM I	Hr	0.13 vph)	/unit					
		other unit (state)	PM I	Hr	0.84 vph	1	/unit					
		. ,	DAIL	_Y	2.02 vpc	i	/unit					
	GENERAL CO	MMENTS AND N	IOTES				Modal Split	Number		%		
e.g. Site location cha			ner				Car Drivers			30%		
special aspects (sch	iool holidays, publi	c holidays)					Car Passengers			29%		
							Goods Drivers			0%		
							Goods Passengers			0%		
							Pedestrians			41%		
							Cyclists			-		
							Bus Passengers	-		-		
							Total			100%		
Survey undertake	en by (organisati	ons):	Austraffic		Surveyo	r Conta	cts:	Kevin John				
,	vey undertaken by (organisations): Austraffic Surveyor Contacts: Kevin John vey undertaken by (surveyor): kevin.john@austraffic.com.au											

Survey for (name	of client/counci	l):	High Den	sity Residen	tial Trip	Generat	tion Survey	s			Office	Ref	Only
Survey Period	& Time												
Date & Time	N/A	E		ata Collection Several Days)		١	N/A			N	I/A		
		A ativity (Nav	,	ocverai bays)			2.5.00	ton Do	ad Ctrathfia	اما			
A.		Activity Nar							ad, Strathfie				
		Land Use Desc Territorial Local A					High Densit	-	d Council	юртне	.u		
		Street Address &							ad, Strathfie	714			
		urvey Site Genera			Rural		Suburb		Inner [CBD	$\overline{}$	1
		divey one center	ar Ecocation		Major	<u> </u>	Minor	_		_		<u> </u>	<u>, </u>
∢		Highest Classific			Arterial	Ш	Arterial	Ш	Collector		Local		ı
DAT		Frontage Ro	ads		Traffic A	ADT =	8,747			ther			
SITE	Pedestrian Activity Nil								V High	ı []		
0,	Public Transport Opportunities Nil Low Moderate High V Occupied Site Area (Ha or m²) Nil Gross Floor Area (GFA m²) Nil Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site 30 spaces Other Parking Spaces Available On-Street Off-site n/a							V High	ı []			
Public Transport Opportunities Nil													
Public Transport Opportunities Nil													
	0.1					N	Jil						
								32 ι	units				
B.	Park	king Spaces Provi	te	30 spaces									
_	Other Parkin	ng Spaces Availat	ole On-Stre	eet Off-site	· ·								
(0)	Staff P	arking Spaces P	rovided On	ı-Site	n/a Not Relev						Relevant		
RKING	Staff Parl	Street and	Off-site			n/a						Surveyed	
Α		Peak Parking D	emand		0600 - 0	615 hrs		22 sp	aces				
	Peak			rvey			0.						
				TIME									
C.	Ш	AM Peak		IN	_	5 hrs	0845 h	nrs					
	ED TUF	(veh/hr)		OUT		0 3	3 (in +	out)					
7	Y EY W PAR			TIME		o hrs	1730 h	ore					
NOIL	SUR /DE -Lo	PM Peak		IN		2							
ERA	TE ((veh/hr)		OUT		3	5 (in +	out)					
TRIP GENERAT	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		-	TIME		0 hrs	1900 h	nrs					
P G	4	Daily (veh/hr)	ТОТА	L IN+OUT	ĺ	36							
¥			A	AM Hr) vph	/unit						
		rip Rate other unit (state)	F	PM Hr	0.16	······································	/unit						
	por room or c	otrior arm (state)	С	DAILY	1.13	3 vpd	/unit						
	GENERAL CO	MMENTS AND N	IOTES				Mod	al Split	Numb	or		%	
e.g. Site location char								Drivers	35	CI .		27%	
special aspects (scho	ol holidays, public h	olidays)					Car Pass					3%	
							Goods	Drivers				1%	
						(Goods Pass	engers				0%	
							Pede	strians				69%	
							C	Cyclists				_	
							Bus Pass	engers	-			-	
								Total	129			100%	, 0
Survey undertake	en by (organisati	ons):	Austraffic		Surveyo	r Contact	ts:		Kevin John				
Survey undertake	en by (surveyor):								kevin.john@	@austi	raffic.co	om.aı	u

Survey for (name	of client/counci	I):	High Densi	ty Residen	tial Trip	Gener	ration Surv	eys			Office	Ref Only
Survey Period				Saturday		17-	Mar-12					
Date & Time	N/A	E	xtended Data (Se	a Collection veral Days)			N/A			1	N/A	
A.		Activity Na	me				2 Eve	erton Ro	oad, Strath	field		
		Land Use Desc	cription				High Dens	ity Resi	dential Dev	/elopm	ent	
				(Strathfie	eld Council						
		Street Address 8	Suburb				2 Eve	erton Ro	oad, Strath	field		
	S	urvey Site Genera	al Location		Rural		Suburb		Inner		CBD	
АТА		Highest Classific Frontage Ro			Major Arterial Traffic A	DT =	Minor Arterial				Local	
旦	Podostri	an Activity	Nii 🗆				<u>'</u>		<u> </u>	V/ High		
SIS								<u>H</u>	V High			
	•				Rd (State Low Moderate High Low Moderate High Nil Nil Nil Nil 32 units 30 spaces n/a n/a n/a 0800 - 0815 hrs 19 0.59 spaces /unit						V High	· Ш
	Pedestrian Activity Nil Low Moderate High High Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site Other Parking Spaces Available On-Street Off-Site Staff Parking Spaces Provided On-Site Staff Parking Spaces On-Street and Off-site Peak Parking Demand Peak Parking Demand Osoo - 0815 hrs Parking Demand During Survey TIME Osoo hrs Occupied Ingh High High High High High High High High High Hold High Hold Nil 32 units 32 units 33 spaces N/a Staff Parking Spaces On-Street Off-Site n/a Peak Parking Demand Osoo - 0815 hrs 19 Osoo hrs Osoo hrs											
	Public Transport Opportunities Nil Low Moderate Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site Other Parking Spaces Available On-Street Off-Site Staff Parking Spaces Provided On-Site Staff Parking Spaces Provided On-Site N/a Staff Parking Spaces On-Street and Off-site Peak Parking Demand O800 - 0815 hrs Peak Parking Demand During Survey O.59 s											
		Size (please spe										
R	Park	king Spaces Prov	ided On-Site					30 s	spaces			
Б.			Off-Site									
		-				n/a	<u> </u>			Not Relevant		
Date & Time A. B. C. C. PARKING P. A. P. A. A. A. A. A. A. A.							n/a	a				Not Surveyed Estimated
Α.		Peak Parking D	emand		0800 - 0	815 hr	·s	1	Road, Strathfield Residential Developm hfield Council Road, Strathfield Inner SH/TLA/Other Rd (State) High Nil Nil Nil Nil Saunits So spaces n/a 19 spaces /unit t) plit Number ers 51 ers 24 ers 0 ers 0 ers 0 ans 158 sts - ers -			
	Peak	Parking Demand	During Surve	=			0	.59 spa	ces /unit			
•			TIM	4E	2000	0000 h ==						
C.	ζE	AM Peak	I IIV				0900 hrs					
	ED	(veh/hr)	OU		1		6 vph (in	+out)				
-	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		TIM		4700		4000	L				
	SUR OEI ILO	PM Peak	IN IN		1700		1800	nrs				
RAI	re s VAL F	(veh/hr)	OU		3		6 vph (in	+out)				
N N	SI		TIM		3		4000	L				
P G	∀	Daily (veh/hr)	TOTAL II		0800		1800	nis				
IR		l	AM		51 v		/unit					
		Trip Rate	PM		0.19 0.19		/unit /unit					
	per 100m ² or o	other unit (state)	DAI		1.59		/unit					
	OENEDAL OO	MARCHEO AND A			1.00	vpu	/driit					
		MMENTS AND N						al Split		er		%
			iei					Drivers				22%
							Car Pass	Ū				10%
							Goods		- 0			0%
						(Goods Pass	-				0%
								estrians	100	3		68%
								Cyclists				-
							Bus Pass	-				-
								Total	233	3	1	100%
Survey undertake	en by (organisati	ons):	Austraffic		Surveyo	r Conta	acts:		Kevin Joh	n		
Survey undertake	en by (surveyor):	:							kevin.john	@aus	traffic.co	om.au

Survey for (name	of client/counci	l):	High Density Residen	tial Trip Gener	ration Surveys		Office Ref Only			
Survey Period										
Date & Time	N/A	E	extended Data Collection (Several Days)		N/A	N	N/A			
A.		Activity Na	me		316 Charlestown R	oad, Charlestown	ı			
	Tuesday N/A N/A N/A									
		Territorial Local	Authority		Lake Macquari	e City Council				
		Street Address 8	Suburb		316 Charlestown R	oad, Charlestown	ı			
	S	urvey Site Genera	al Location	Rural	Suburb	Inner	CBD			
ТА				Arterial	Arterial	_	Local			
SITE DATA				Traffic ADT =	8,581					
SITE	Pedestri	an Activity	Nil 🔲	Low	Moderate	High	V High			
			<u> </u>	Low	High	V High L				
	Pedestrian Activity Nil Dublic Transport Opportunities Nil Low Moderate High High High Nil Occupied Site Area (Ha or m²) Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces On-Street and Off-site Peak Parking Demand Nil 108 units 113 Other Parking Spaces Available On-Street Off-site n/a Staff Parking Spaces On-Street and Off-site Na Peak Parking Demand O600 - 0615 hrs 88 spaces									
	Gross Floor Area (GFA m²) Employees Nil Other Size (please specify value and units eg seats, rooms, beds, pupils) Parking Spaces Provided On-Site (Inc. Staff) Other Parking Spaces Available On-Street Off-site Staff Parking Spaces Provided On-Site Staff Parking Spaces On-Street and Off-site n/a									
	Othor				Ni	<u> </u>				
					108 ເ	ınits				
В.				113						
В.										
		<u> </u>					Not Relevant			
ARKING							Not Surveyed Estimated			
Α'	Peak Parking Demand 0600 - 0615 hrs 88 spaces									
					·					
C.	Щ	AM Peak			0830 hrs					
	ED TUR	(veh/hr)			59 vph (in+out)					
_	/EY >AR									
NOIL	URV DEF LOV				1715 hrs					
TRIP GENERATI	TE S VAL F	(veh/hr)			53 vph (in+out)					
ENE	SI RRI				1000 hrs					
P G	∀	Daily (veh/hr)			1900 nrs					
TRI			AM Hr	0.55 vph	/unit					
		rip Rate	PM Hr	0.55 vpn 0.49 vph	/unit					
	per 100m² or o	other unit (state)	DAILY	4.37 vpd	/unit					
	CENEDAL CO	MMENTS AND N	IOTES							
e.g. Site location char			10123		Modal Split		%			
special aspects (scho					Car Drivers		27%			
					Car Passengers		8%			
					Goods Drivers	200	45%			
					Goods Passengers		0%			
					Pedestrians	127	19%			
					Cyclists		-			
					Bus Passengers		-			
_				_	Total		100%			
Survey undertake	en by (organisati	ons):	Austraffic	Surveyor Conta	acts:	Kevin John				
Survey undertake	en by (surveyor):					kevin.john@aust	raffic.com.au			

Survey for (name	of client/counci	l):	High Density Residen	tial Trip Genera	tion Surveys		Office Ref Only			
Survey Period			Tuesday	12·	·May-12					
Date & Time	N/A	E	xtended Data Collection (Several Days)		N/A	١	N/A			
A.		Activity Na	me		316 Charlestown R	oad, Charlestown	١			
		Land Use Desc	cription		High Density Reside	ential Developmer	nt			
		Territorial Local	Authority		Lake Macquarie	e City Council				
		Street Address 8	Suburb		316 Charlestown R	oad, Charlestown	1			
	S	urvey Site Genera	al Location	Rural	Suburb	Inner	CBD			
ΑΤΑ		Highest Classific		Major Arterial Traffic ADT =	Minor Arterial	Collector SH/TLA/Other	Local			
E D/			[Rd (State)	V High			
SIT				Nil Nil value and ds, pupils) 108 units Site (Inc. Staff) 113 On-Street Off-site n/a						
	<u> </u>		poportunities Nil							
	Public Transport Opportunities Nil									
	(
	Other				INI	<u> </u>				
					108 u	inits				
В.	Parking S	paces Provided (On-Site (Inc. Staff)		11:	3				
ь.										
_		<u> </u>			n/a		Not Relevant			
4RKING					n/a		Not Surveyed Estimated			
4		Peak Parking D	emand	0800 - 0815 hrs	7:	3				
	Peak	Parking Demand	During Survey		0.68 spa	ces /unit				
•			TIME	0000 1	0000 L					
C.	Щ	AM Peak	IN	0800 hrs	0900 hrs					
	ED TUF	(veh/hr)	OUT	10	10 vph (in+out)					
7	SITE SURVEYED ARRIVAL/DEPARTURE FLOW		TIME	1700 hrs	1800 hrs					
NOIT	SUR /DE -Lo	PM Peak	IN	18						
ERA	TE ((veh/hr)	OUT	16	34 vph (in+out)					
TRIP GENERATI	SI		TIME	0800 hrs	1800 hrs					
<u>₽</u>	4	Daily (veh/hr)	TOTAL IN+OUT	252	100010					
꿈			AM Hr	0.09 vph	/unit					
		rip Rate other unit (state)	PM Hr	0.31 vph	/unit					
	por room or c	otrior ariit (otato)	DAILY	2.3 vpd	/unit					
	GENERAL CO	MMENTS AND N	IOTES		Modal Split	Number	%			
e.g. Site location char					Car Drivers	138	27%			
special aspects (scho	ol holidays, public h	olidays)			Car Passengers	52	10%			
					Goods Drivers	114	22%			
					Goods Passengers	0	0%			
					Pedestrians	205	40%			
					Cyclists	-	-			
					Bus Passengers	-	-			
					Total	509	100%			
Survey undertake	en by (organisati	ons):	Austraffic	Surveyor Contac	ots:	Kevin John	•			
Survey undertaken by (organisations): Austraffic Surveyor Contacts: Kevin John Survey undertaken by (surveyor): kevin.john@austraffic.com.au										

Survey for (name	of client/counci	l):	High Der	nsity Residen	tial Trip Genera	ation Surveys		Office	e Ref O	nly		
Survey Period				Tuesday		29-May-12						
Date & Time	N/A	E		ata Collection Several Days)		N/A	N/A					
A.		Activity Na	me			3-5 Corrimal Str	eet, Wollongong	l				
		Land Use Desc	ription		High Density Residential Development							
		Territorial Local	Authority		Wollongong City Council							
		Street Address 8	Suburb		3-5 Corrimal Street, Wollongong							
	Survey Site General Location				Rural	Suburb	Inner	CBD				
SITE DATA		Highest Classific Frontage Ro			Major Arterial Traffic ADT =	Minor Arterial	Collector SH/TLA/Other	Local				
Œ	Pedestri	an Activity	Nil [7	Low	Moderate	Rd (State)	V Hig	h П			
S		ort Opportunities	Nil	<u>-</u> 1	Low	Moderate Moderate	High	V Hig				
	•	ccupied Site Area		<u> </u>			<u> :у</u> lil	1 1 119	Ш			
		Gross Floor Area		,			 lil					
		Employee				N	lil					
		Size (please speeg seats, rooms,			9 units							
B.	Park	king Spaces Provi	ided On-Si	ite	19 spaces							
	Other Parkir	ng Spaces Availat	ole On-Stre	eet Off-site	n/a							
G.	Staff F	arking Spaces P	rovided On	n-Site		n/a			Not Re	levant		
PARKING	Staff Parking Spaces On-Street and Off-site					n/a			Not Surveyed Estimated			
	Peak Parking Demand				0600 - 0615 hrs	14 sp	aces					
	Peak Parking Demand During Survey					1.56 spa	ces /unit					
C.				TIME	0800 hrs	0900 hrs						
C.	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	AM Peak (veh/hr)		IN	1							
				OUT	5	6 (in + out)						
NO		PM Peak (veh/hr)	-	TIME	1600 hrs	1700 hrs						
				IN	1	2 (:						
ER/				OUT	2	3 (in + out)						
TRIP GENERAT		Doily (see //e-)	-	TIME	0600	1800 hrs						
SIP (,	Daily (veh/hr)	TOTA	L IN+OUT	43							
Ħ	Peak Trip Rate		F	AM Hr	0.67 vph	/unit						
		other unit (state)	F	PM Hr	0.33 vph	/unit						
	•		Г	DAILY	4.78 vpd	/unit						
	GENERAL CO	MMENTS AND N	IOTES			Modal Split	Number		%			
e.g. Site location char						Car Drivers	43		55%			
special aspects (school	ooi noildays, public r	iolidays)				Car Passengers	10		13%			
						Goods Drivers	0		0%			
						Goods Passengers	0		0%			
						Pedestrians	25		32%			
						Cyclists	-		_			
						Bus Passengers	-		-			
						Total	78	1	100%			
Survey undertake	en by (organisati	ons):	Austraffic	 ;	Surveyor Contac	ots:	Kevin John					
Survey undertake		•	-		•		kevin.john@aus	straffic.c	om.au			

Survey for (name	of client/counci	I):	High Der	nsity Residen	tial Trip Genera	tion Surveys		Offic	e Ref (Only		
Survey Period				Saturday		26-May-12	2					
Date & Time	N/A	E		Data Collection Several Days)	1	N/A	N/A					
A.		Activity Nar	me			3-5 Corrimal Str	eet, Wollongon	ıg				
	Land Use Description					High Density Resid	lential Developi	ment				
		Territorial Local A	Authority			Wollongong	City Council					
	Street Address & Suburb				3-5 Corrimal Street, Wollongong							
	S	urvey Site Genera	al Location	1	Rural	Suburb	Inner	CBD				
SITE DATA		Highest Classific Frontage Ro			Major Arterial Traffic ADT =	Minor Arterial	Collector SH/TLA/Other	Local r				
<u> </u>	Podostri	an Activity	Nil [7	Low	Moderate	Rd (State)	V Hig	7b 🗀			
SI		ort Opportunities	Nil [<u> </u>	Low	Moderate Moderate	High	V Hig				
		ccupied Site Area		<u></u>	Low	Iviouerate		VIIIQ	יינ			
		Gross Floor Area		,			''' IiI					
		Employee										
		r Size (please spe eg seats, rooms,	cify value		Nil 9 units							
B.	Park	king Spaces Provi	ided On-S	ite	19 spaces							
	Other Parking Spaces Available On-Street Off-site				n/a							
45	Staff F	Parking Spaces P	rovided Or	n-Site	n/a No							
PARKING	Staff Parking Spaces On-Street and Off-site					n/a			Not Surveyed Estimated			
	Peak Parking Demand				0800 - 0815 hrs	15 sp	aces					
	Peak Parking Demand During Survey					1.67 spa	ces /unit					
•				TIME	20001							
C.	AM Peak (veh/hr) SITE SORVEYED WOTH ARM (veh/hr) PM Peak (veh/hr) Daily (veh/hr)		IN	0800 hrs	0900 hrs							
		(veh/hr)		OUT	0	1 (in + out)						
7		PM Peak (veh/hr)		TIME	1700 hrs	1800 hrs						
NOIL				IN	1700 hrs	1800 nrs						
RA.				OUT	4	6 (in + out)						
ENE	<u>n</u> 25			TIME	0800 hrs	1800 hrs						
TRIP GENERAT	∢	Daily (veh/hr)	TOTA	AL IN+OUT	33 vpd	10001113						
IR		l	,	AM Hr	0.1 vph	/unit						
		Trip Rate other unit (state)		PM Hr	0.67 vpl							
	per 100m or 0	otner unit (state)		DAILY	3.67 vpc							
	GENERAL CO	MMENTS AND N	IOTES		'	•						
e.g. Site location char			IOTEO			Modal Split	Number		%			
special aspects (scho						Car Danagara	33		35%			
						Car Passengers	19		20%			
						Goods Drivers	0		0%			
					1	Goods Passengers	3	_	3%			
						Pedestrians	40	40 42%				
						Cyclists	-					
						Bus Passengers	-	_	-			
						Total	95		100%			
Survey undertake	en by (organisati	ons):	Austraffic		Surveyor Contac	ts:	Kevin John					
Survey undertake	en by (surveyor):	:					kevin.john@a	ustraffic.d	com.au			

Survey for (name	of client/counci	l):	High De	ensity Residen	tial Trip	Genera	tion Survey	'S		Offic	e Ref Only			
Survey Period				Saturday	23-Jun-12									
Date & Time	N/A	E		Data Collection (Several Days)	IN/A				N/A					
A.		Activity Na	me				209 Ha	arris St	Street Pyrmont					
	Land Use Description					ŀ	High Density	Resid	ential Develop	ment				
	Territorial Local Authority						City	of Sydr	ney Council					
	Street Address & Suburb					209 Harris Street Pyrmont								
	S	urvey Site Genera	al Location	n	Rural		Suburb		Inner	CBD				
SITE DATA		Highest Classific Frontage Ro			Major Arterial Traffic A	ADT =	Minor Arterial		Collector SH/TLA/Othe	Loca	ı 🗆			
百日	Podostri	an Activity	Nil [_	Low	_	Moderate	$\overline{}$	Rd (State) High] V Hiş	ah 🗆			
SI			Nil	-	Low	\blacksquare	Moderate	<u> </u>	High] V Hiệ				
		ccupied Site Area			LOW		iviouerate	<u> </u>		1 1 116	yıı 🔤			
		Gross Floor Area	· · · · · · · · · · · · · · · · · · ·					N						
		Employee		1										
	Other Size (please specify value and units eg seats, rooms, beds, pupils)					Nil 131								
B.	Parking S	paces Provided (On-Site (I	nc. Staff)	199									
	Other Parking Spaces Available On-Street Off-site					n/a								
PARKING	Staff Parking Spaces Provided On-Site					n/a Not Rel								
	Staff Parking Spaces On-Street and Off-site						n/a				Not Surveyed Estimated			
Ğ	Peak Parking Demand)915 hrs		88 spa	aces					
	Peak	urvey			0.6	ces / unit								
C.				TIME	080	0 hrs	0900 h	irs						
o .	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	AM Peak (veh/hr)		IN		6								
				OUT		5	11 vph (in	+out)						
NO	KVE PAF			TIME		5 hrs	1745 hrs - 11 vph (in+out)							
	SUF L/DE FLC	PM Peak		IN		7								
ERA	IZ A	(veh/hr)		OUT		4								
TRIP GENERATI	S ARR	D = 11 - (1- // 1)		TIME	080	0 hrs	1800 h	ırs						
IIP (Daily (veh/hr)	ТОТ	AL IN+OUT	145	s vpd								
F	5			AM Hr		0.08 vph	/unit							
		rip Rate other unit (state)		PM Hr		0.08 vph	vph /unit							
	por room or c	otrior arm (otato)		DAILY		1.1 vpd	/unit							
	GENERAL CO	MMENTS AND N	IOTES				Moda	l Split	Number		%			
		ng durations, and oth	ner					Orivers			22%			
special aspects (sch	ool holidays, publi	c holidays)					Car Pass		68		11%			
							Goods [Drivers	8		1%			
						(Goods Pass	engers	4		1%			
								strians	420		66%			
							C	yclists	-		-			
							Bus Pass	•	_		_			
								Total	637		100%			
Survey undertake	en by (organisati	ons):	Austraffi	ic	Surveyo	or Contac	ets:		Kevin John		/ -			
Survey undertake				-		_ 5.1140			kevin.john@a	austraffi	c.com.au			
Carry undertake	wy (dui voyol).								jorii i ee	-activiti				

Survey for (name	of client/counci	l):	High De	nsity Residen	tial Trip	Gene	ratio	on Survey	rs			Office	Ref C)nly
Survey Period				Tuesday	26-Jun-12									
Date & Time	N/A	E		Data Collection (Several Days)	N/A N/A									
A.		Activity Nar	me					209 Ha	209 Harris Street Pyrmont					
	Land Use Description						Hi	igh Density	Resid	ential Deve	lopm	ent		
	Territorial Local Authority							City	of Sydr	ey Council				
	Street Address & Suburb					209 Harris Street Pyrmont								
	S	urvey Site Genera	al Locatio	n	Rural		5	Suburb		Inner		CBD		
SITE DATA	Highest Classification of Frontage Roads					DT =	P	Minor Arterial 10,215		Collector		Local		
里	Pedestri	an Activity	Nil [7	Low	$\overline{\Box}$		Moderate		Rd (State) High		V Higl	h \Box	
SI			Nil [<u> </u>	Low	旹	-	Moderate		High	<u>—</u> П	V High	_=	
		cupied Site Area			2011	<u> </u>		vioaci ato	— N	_	<u> </u>	1 11191	<u>· Ш</u>	
		Gross Floor Area	<u> </u>						N					
		Employee		<u>′</u>					N	 il				
	Other Size (please specify value and units eg seats, rooms, beds, pupils)					131								
B.	Parking S	paces Provided (On-Site (I	nc. Staff)	199									
	Other Parking Spaces Available On-Street Off-site					n/a								
PARKING	Staff Parking Spaces Provided On-Site					n/a Not Rel						elevant		
	Staff Parking Spaces On-Street and Off-site							n/a					Not Su Est	rveyed
	Peak Parking Demand				0600 - 0	615 hı	rs		99 spa	aces				
	Peak	Parking Demand	During S	During Survey				0.7	76 spaces / unit					
C.				TIME	0800) hre		0900 h	re					
C.	SITE SURVEYED ARRIVAL/DEPARTURE FLOW	AM Peak (veh/hr)		IN	10		+							
				OUT	1:			23 vph (in	+out)					
z	KVE W W	W W		TIME	1645			1745 hrs						
TION	SUR 7DE FLO	PM Peak		IN	10 10			- 18 vph (in+out)						
ERA	IZ AI	(veh/hr)		OUT	8									
TRIP GENERATI	S ARR			TIME	0600			1900 hrs						
IP 0		Daily (veh/hr)	TOT	AL IN+OUT	135									
¥				AM Hr).18 vp	ph /	/unit						
		rip Rate other unit (state)		PM Hr	0.14 vph /unit									
	por room or c	other drift (state)		DAILY	1	1.03 v	pd/	unit/						
	GENERAL CO	MMENTS AND N	IOTES					Mode	l Split	Numb	or.		%	
e.g. Site location cha			ner						Orivers	Number 118	BI		30%	
special aspects (sch	ool holidays, publi	c holidays)						Car Pass		22			6%	
								Goods I	Ū	17			4%	
							Go	oods Pass		3			1%	
							- (strians	240			60%	
									cyclists	- 240			-	
								Bus Pass	•					
									Total	400			100%	\neg
Survey undertake	n hy (organisati	ons).	Austraffi	ic	Surveyor	· Cont	acte	ž·		Kevin Joh	n		. 55 /0	\neg
Survey undertake		•	, worraill		Jaivoyo	Joint	JU10			kevin.john		etraffic	com c	=
ourvey undertake	in by (Surveyor).									vealii'loull	w au	ou aiiic.	S.IIIO	u

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Document Status

Rev	Author	Reviewe	r	Approved for Issue					
No.	Adirioi	Name Signature		Name	Signature	Date			
1	J Ticinovic	I Smith		S Konstas		22/8/2012			
2	O Peel	I Smith				20/9/2012			
2	O Peel	I Smith	85		Up.	25/9/2012			